

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



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 24, 2016

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OCT 31 2016

Ms. Elizabeth Zwak  
Rosa Law Management, L.L.C.  
P.O. Box 2109  
San Marcos, Texas 78667

COUNTY ENGINEER

Re: Edwards Aquifer, Comal County

NAME OF PROJECT: **Hunter III**; Located 0.1 miles northeast of the intersection of FM 2439 and FM 1102; New Braunfels, Texas

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

Regulated Entity No. RN109260810; Additional ID No. 13000194

Dear Ms. Zwak:

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 22, 2016. Final review of the WPAP was completed after additional material was received on September 28, 2016 and October 3, 2016. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby **approved** subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

### PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 440 acres. The Hunter III quarry project proposes to continue quarrying activity from the adjacent Hunter II quarry site. Excavated rock

material from the Hunter III site will be transported to the existing Hunter Quarry site for processing. No impervious cover was proposed in this application. Project wastewater will be collected in portable restroom facilities and transported to permitted treatment facilities by licensed waste haulers.

#### PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or up-gradient of the site and potentially flowing across and off the site after construction, a 50 foot natural vegetative filter strip and a vegetated earthen berm will be situated around the perimeter of the site to filter or prevent sediment laden stormwater from escaping the site.

The natural VFS will be at least 50 feet wide (in the direction of flow) and will extend along the entire length of the contributing area. The entire VFS will have a uniform slope of less than 10 percent and will be located above the 2 year, 3 hour storm elevation.

#### GEOLOGY

According to the geologic assessment included with the application, the site is located over the leached and collapsed members of the Person Formation. The geologic assessment identified 15 geologic features on the site; two features were rated as sensitive (S-2 zone of solution cavities and S-12 solution cavity). The two sensitive features will be temporarily sealed with flowable fill prior to excavation. The San Antonio Regional Office site assessment conducted on September 13, 2016 revealed the site was generally as described in the geologic assessment.

A temporary natural buffer was proposed for two sensitive geologic features (S-12 and S-2). No regulated activities (such as construction or soil disturbing activities) will take place within the natural buffer areas prior to sealing the features. The buffer sizes are generally based on the drainage area for the sensitive features.

The temporary buffer for feature S-12 (solution cavity) will be 200 feet north, 50 feet south, 200 feet east, and 180 feet west.

The temporary buffer for feature S-2 (zone of solution cavities) will be 200 feet north, 200 feet south, 200 feet east, and 200 feet west.

#### SPECIAL CONDITIONS

- I. It is understood that sensitive features S-2 and S-12 will be removed through future mining operations and these features will be temporarily sealed prior to excavation. Temporary sediment control BMPs must be installed and remain installed around sensitive feature S-12 prior to commencement of any construction activity that is within the proposed buffer area. These temporary BMPs will be maintained in accordance with RG-348 and RG-500, until the feature has been sealed.
- II. The applicant is hereby advised that the after-the-fact approval of the Water Pollution Abatement Plan application, as provided by this letter, shall not absolve the applicant of any violations of Commission rules related to this project.

#### 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.

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Ms. Elizabeth Zwak  
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COUNTY ENGINEER

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

Prior to Commencement of Construction:

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

During Construction:

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

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

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

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Ms. Elizabeth Zwak

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

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 Mr. Alex Grant of the Edwards Aquifer Protection Program of the San Antonio Regional Office at 210-403-4035

Sincerely,



Lynn Bumguardner, Water Section Manager  
San Antonio Region  
Texas Commission on Environmental Quality

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**COUNTY ENGINEER**

LB/AG/eg

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

cc: Ms. Mary Ellen Schulle, P.E., Westward Environmental  
Ms. Shannon Mattingly, City of San Marcos  
Mr. Tom Hornseth, P.E., Comal County  
Ms. Brook Leftwich, Hays County  
Mr. H. L. Saur, Comal Trinity Groundwater Conservation District  
Mr. Roland Ruiz, Edwards Aquifer Authority  
TCEQ Central Records, Building F, MC 21





September 27, 2016

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

Project No.: 10080-101

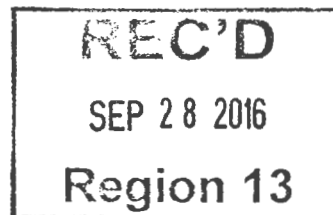
Attn: Mr. Alex Grant

Subject: WPAP Response to Comments  
Colorado Materials, LTD Hunter III – RN 109260810;  
Program ID 13000194  
Colorado Materials, LTD. – CN6000522452

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OCT 07 2016  
COUNTY ENGINEER

Dear Mr. Grant,

Below please find our responses to your fax dated September 13, 2016.



*TCEQ Comment #1: Attachment "A" of the Temporary Stormwater Section (TCEQ-0602) uses the language stating spills will be cleaned up in a timely manner instead of immediately as listed in RG-348. These phrasing differences were discovered in the following sections of attachment A:*

- a. General Measures line 1;*
- b. Cleanup line 1;*
- c. Semi-Significant Spills, opening paragraph and line 2 (foreman notification);*
- d. Significant/Hazardous Spills; and*
- e. Vehicle and Equipment Maintenance line 2*

*Please update the language of the above sections of Attachment A to state immediately instead of timely manner and resubmit.*

**Response:**

**Please see Temporary Stormwater Section Attachment A which has been revised with the requested verbiage.**

*TCEQ Comment #2: Two existing portable office buildings were observed during the September 13, 2016 site assessment. These two buildings were situated behind the existing residence on the property. A compacted aggregate driveway and building pad was also observed. When were these two buildings and*





*driveway/building pad improvements completed? How long will these two buildings be operating at this location?*

**Response:**

**It is our understanding that the two buildings in question are owned and operated by the landowner Rosa Law Management, we are unsure when the buildings were added to the site. They will be there indefinitely and used for agricultural purposes. Ranch hands occupy the buildings while caring for and maintaining cattle on site.**


*TCEQ comment #3: The two portable buildings were connected to power and had wastewater holding tanks attached. How is the wastewater being disposed of? One of the tanks was observed leaking wastewater onto the ground through an unsecured outlet opening.*

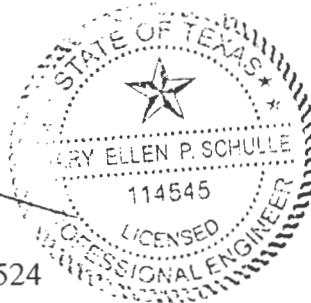
**Response:**

**It is our understanding that the tanks were put in place by Rosa Law Management and there is a service agreement to service the tanks. There is a tag located on one of the tanks that calls out High Sierra.**

**WESTWARD** will continue to serve as the technical contact for Colorado Materials, LTD. on this project. Please ensure that **WESTWARD** is copied on all correspondence, including the final approval. If you have any other questions, or require further information, please contact our office at 830-249-8284.

Respectfully submitted,  
**WESTWARD ENVIRONMENTAL, INC.**

  
Mary Ellen Schulle, PE  
Project Engineer  
TX License No. 114545 | TX Firm No. 4524



**Attachments**

**Distribution:** Addressee  
Mr. Tom Singley – Colorado Materials, LTD.  
WEI 10080-101 File

**Colorado Materials, Ltd  
Hunter III**

**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 spills must be reported to the TCEQ.
- (2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

**General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.
- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill 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.



**Colorado Materials, Ltd  
Hunter III**

(10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.

(11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.

(12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

**Cleanup**

(1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

**Minor Spills**

(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.

(2) Use absorbent materials on small spills rather than hosing down or burying the spill.

(3) Absorbent materials should be promptly removed and disposed of properly.

(4) Follow the practice below for a minor spill:

(5) Contain the spread of the spill.

(6) Recover spilled materials.

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

**Semi-Significant Spills**

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

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

**Colorado Materials, Ltd  
Hunter III**

(2) Notify the project foreman immediately.

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

(4) If the spill occurs in dirt areas, 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, 117, and 302, the contractor should notify the National Response Center at (800) 424-8802.

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

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

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

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 immediately. Follow company policy when responding to an emergency.

State Emergency Response Commission	(512) 424-2208
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

**Colorado Materials, Ltd**  
**Hunter III**

**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 immediately.
- (3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment 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.
- (4) Equipment fueling will take place on a flex base pad. The flex base pad will be 1 ft. thick with a 1 ft. berm on all sides. The base pad will relocate as quarry expands. Fueling of plant equipment located in the pit will be conducted on a flex base pad.



Colorado Materials, Ltd  
Hunter III

**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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

July 22, 2016

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

RECEIVED  
JUL 27 2016  
COUNTY ENGINEER

Re: Edwards Aquifer, Comal and Hays Counties  
PROJECT NAME: Hunter III, located at 5080 FM 2439, New Braunfels, Texas

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

Dear Mr. Hornseth:

The referenced application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval. More information regarding this project may be obtained from the TCEQ Central Registry website at [http://www.tceq.state.tx.us/permitting/central\\_registry/](http://www.tceq.state.tx.us/permitting/central_registry/).

Please forward your comments to this office by August 22, 2016.

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

A handwritten signature in blue ink, appearing to read "Todd Jones".

Todd Jones, Water Section Work Leader  
San Antonio Regional Office

TJ/eg

COLORADO MATERIALS, LTD

WATER POLLUTION ABATEMENT PLAN  
WPAP

HUNTER III  
5080 FM 2439

NEW BRAUNFELS, TEXAS  
COMAL COUNTY

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JUL 27 2016

COUNTY ENGINEER

Submitted to: TCEQ Region 13, San Antonio

Prepared By:

  
**WESTWARD**  
Environmental. Engineering. Natural Resources.

Boerne, Texas  
830-249-8284

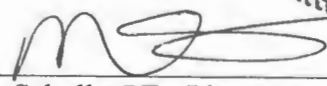
Date: JULY 2016  
Project No. 10080-101  
-JP-

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TCEQ-R13 (EAPP)

JUL 22 2016

SAN ANTONIO



Signature:   
Mary Ellen P. Schulle, PE - License No. 114545  
TX PE Firm No. 4524

Date: 7/22/16



**COLORADO MATERIALS, LTD  
HUNTER III**

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# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### Our Review of Your Application

The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with **30 TAC 213**.

### Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.  
  
To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: <http://www.tceq.texas.gov/field/eapp>.
2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.  
  
An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.
5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

### Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be



clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or if not withdrawn the application will be denied and the application fee will be forfeited.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

### Mid-Review Modifications

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available to you:

- You can withdraw your application, and your fees will be refunded or credited for a resubmittal.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the effected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

<b>1. Regulated Entity Name:</b> Hunter III				<b>2. Regulated Entity No.:</b> New			
<b>3. Customer Name:</b> Colorado Materials, Ltd				<b>4. Customer No.:</b> 600522452			
<b>5. Project Type:</b> (Please circle/check one)	<input checked="" type="radio"/> New	Modification		Extension		Exception	
<b>6. Plan Type:</b> (Please circle/check one)	<input checked="" type="radio"/> WPAP	<input type="radio"/> CZP	<input type="radio"/> SCS	<input type="radio"/> UST	<input type="radio"/> AST	<input type="radio"/> EXP	<input type="radio"/> EXT
<b>7. Land Use:</b> (Please circle/check one)	<input type="radio"/> Residential	<input checked="" type="radio"/> Non-residential			<b>8. Site (acres):</b>		440
<b>9. Application Fee:</b>	\$10,000	<b>10. Permanent BMP(s):</b>			Earthen Berms, Vegetated Buffers		
<b>11. SCS (Linear Ft.):</b>	N/A	<b>12. AST/UST (No. Tanks):</b>			N/A		
<b>13. County:</b>	Comal	<b>14. Watershed:</b>			Upper San Marcos River		

## Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

[http://www.tceq.texas.gov/assets/public/compliance/field\\_ops/eapp/EAPP%20GWCD%20map.pdf](http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf)

For more detailed boundaries, please contact the conservation district directly.

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	—	—
Region (1 req.)	<u>X</u>	—	—
County(ies)	<u>X</u>	—	—
Groundwater Conservation District(s)	<u>X</u> Edwards Aquifer Authority <u>  </u> Barton Springs/Edwards Aquifer <u>  </u> Hays Trinity <u>  </u> Plum Creek	<u>  </u> Barton Springs/Edwards Aquifer	NA
City(ies) Jurisdiction	<u>  </u> Austin <u>  </u> Buda <u>  </u> Dripping Springs <u>  </u> Kyle <u>  </u> Mountain City <u>X</u> San Marcos <u>  </u> Wimberley <u>  </u> Woodcreek	<u>  </u> Austin <u>  </u> Bee Cave <u>  </u> Pflugerville <u>  </u> Rollingwood <u>  </u> Round Rock <u>  </u> Sunset Valley <u>  </u> West Lake Hills	<u>  </u> Austin <u>  </u> Cedar Park <u>  </u> Florence <u>  </u> Georgetown <u>  </u> Jerrell <u>  </u> Leander <u>  </u> Liberty Hill <u>  </u> Pflugerville <u>  </u> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	<u>X</u>	—	—	—
Region (1 req.)	—	<u>X</u>	—	—	—
County(ies)	—	<u>X</u>	—	—	—
Groundwater Conservation District(s)	<u>  </u> Edwards Aquifer Authority <u>  </u> Trinity-Glen Rose	<u>X</u> Edwards Aquifer Authority <u>  </u> Authority <u>X</u> Comal County	<u>  </u> Kinney	<u>EAA</u> <u>  </u> Medina	<u>EAA</u> <u>  </u> Uvalde
City(ies) Jurisdiction	<u>  </u> Castle Hills <u>  </u> Fair Oaks Ranch <u>  </u> Helotes <u>  </u> Hill Country Village <u>  </u> Hollywood Park <u>  </u> San Antonio (SAWS) <u>  </u> Shavano Park	<u>  </u> Bulverde <u>  </u> Fair Oaks Ranch <u>  </u> Garden Ridge <u>  </u> New Braunfels <u>  </u> Schertz	NA	<u>  </u> San Antonio ETJ (SAWS)	NA



I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

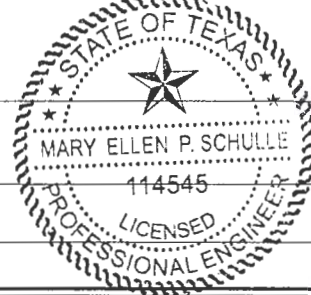
Mary Ellen P. Schulle, PE – License No. 114545 | TX Firm No. 4524

  
Print Name of Customer/Authorized Agent

7/22/16

Signature of Customer/Authorized Agent

Date



**\*\*FOR TCEQ INTERNAL USE ONLY\*\***

Date(s) Reviewed:		Date Administratively Complete:	
Received From:		Correct Number of Copies:	
Received By:		Distribution Date:	
EAPP File Number:		Complex:	
Admin. Review(s) (No.):		No. AR Rounds:	
Delinquent Fees (Y/N):		Review Time Spent:	
Lat./Long. Verified:		SOS Customer Verification:	
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):
Core Data Form Complete (Y/N):			Signed (Y/N):
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):

# Article I. General Information Form

## Texas Commission on Environmental Quality

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

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

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

### Section 1.01 Signature

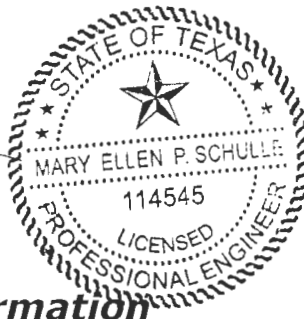
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Mary Ellen P. Schulle, PE

License No. 114545 | TX Firm No. 4524

Date: July 22, 2016

Signature of Customer/Agent:



### Section 1.02 Project Information

1. Regulated Entity Name: Hunter III
2. County: Comal
3. Stream Basin: Guadalupe River
4. Groundwater Conservation District (If applicable): Edwards Aquifer Authority
5. Edwards Aquifer Zone:
  - ☒ Recharge Zone
  - ☒ Transition Zone
6. Plan Type:

<input checked="" type="checkbox"/> WPAP	<input type="checkbox"/> AST
<input type="checkbox"/> SCS	<input type="checkbox"/> UST
<input type="checkbox"/> Modification	<input type="checkbox"/> Exception Request

7. Customer (Applicant):

Contact Person: Tom Singley

Entity: Colorado Materials, Ltd

Mailing Address: P.O. Box 2109

City, State: San Marcos, Texas

Zip: 78667

Telephone: 512-396-1556

FAX: 512-396-1558

Email Address: toms@hunterind.com

8. Agent/Representative (If any):

Contact Person: Mary Ellen P. Schulle, PE

Entity: Westward Environmental, Inc.

Mailing Address: P.O. Box 2205

City, State: Boerne, Texas

Zip: 78006

Telephone: 830-249-8284

FAX: 830-249-0221

Email Address: meschulle@westwardenv.com

9. Project Location:

- ☐ The project site is located inside the city limits of \_\_\_\_.
- ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of San Marcos.
- ☐ The project site is not located within any city's limits or ETJ.

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

The project is located 0.1 miles Northeast of the intersection of FM 2439 & FM 1102;  
5080 FM 2439 New Braunfels, TX

11. ☒ **Attachment A – Road Map.** A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map.** A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

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

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned.** Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate

the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

- ☒ Survey staking will be completed by this date: The site is fenced and features have been flagged.

14. ☒ **Attachment C – Project Description.** Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

- ☒ Area of the site
- ☒ Offsite areas
- ☒ Impervious cover
- ☒ Permanent BMP(s)
- ☒ Proposed site use
- ☒ Site history
- ☒ Previous development
- ☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

- ☐ Existing commercial site
- ☒ Existing industrial site
- ☐ Existing residential site
- ☒ Existing paved and/or unpaved roads
- ☒ Undeveloped (Cleared)
- ☒ Undeveloped (Undisturbed/Uncleared)
- ☐ Other: \_\_\_\_\_

### ***Section 1.03 Prohibited Activities***

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

- (1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);
- (2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;
- (3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;
- (4) The use of sewage holding tanks as parts of organized collection systems; and
- (5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).
- (6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.



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

### **Section 1.04 Administrative Information**

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

- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
  - ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
  - ☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
  - ☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
  - ☐ A request for an extension to a previously approved plan.
19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:
- ☐ TCEQ cashier
  - ☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
  - ☒ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)
20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
21. ☒ 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.

## ATTACHMENT A

## Property Identification #: 74097

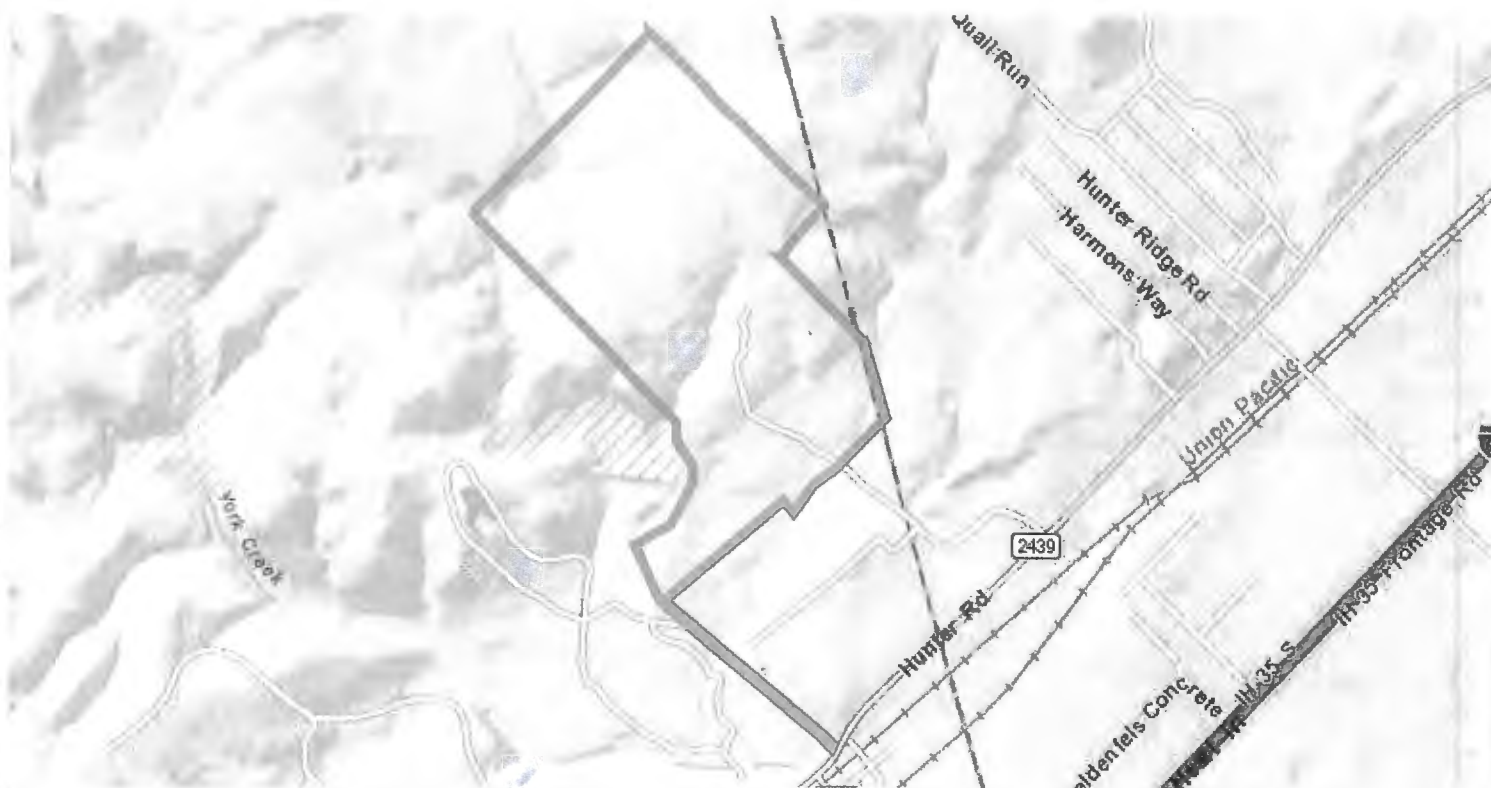
Geo ID: 740098002900  
Situs FM 1102 NEW BRAUNFELS, TX  
Address: 78130  
Property Type: Real  
State Code: D1

## Property Information: 2016

Legal Description: A- 98 SUR- 1 S CRAFT,  
ACRES 441.7, A- 33 SUR- 3 L  
S BEASLEY  
Abstract: A0098  
Neighborhood: Rural Ac. Area 5  
Appraised Value: N/A  
Jurisdictions: 046, LTR, EDW, YCW, CIS,  
CAD, ZZZ, ES7

## Owner Identification #: 933300

Name: ROSA LAW MANAGEMENT LLC  
Exemptions:  
DBA: CEMEX U S A CONST  
MATERIALS INC



Comal CAD Map Search

This product is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. The Comal County Appraisal District expressly disclaims any and all liability in connection herewith.

## ROAD/AREA MAP

**Colorado Materials, Ltd  
Hunter III**

**General Information Form Attachment C**

**Project Description**

Colorado Materials, Ltd proposes to construct a limestone quarry on the subject tract of approximately 440 acres in Comal County. The area on the Recharge Zone, approximately 350 acres, are proposed to be quarried. The site will be adjacent to the existing Hunter quarry and Hunter II quarry located at 5080 FM 2439 in New Braunfels, Comal County, Texas. The entrance at the existing Hunter Quarry site will be used to access Hunter III. Several existing ranch roads may be utilized.

Quarrying will continue from the Hunter II Quarry and advance southeast across Hunter III. As the quarry expands to the quarry limits, 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 III will be loaded into trucks and hauled or conveyed to the existing quarry for processing. A portable crusher may be located in Hunter III in the future. Any stockpiles will be located in the pit. A rail spur may cross the Hunter III site on the Transition Zone in the future.

Approximately 350 acres of the site are proposed to be quarried, as shown on the WPAP site plan. This includes areas located within the floodplain of Bullhead Hollow, Unnamed Tributary 1 and Unnamed Tributary 2. Prior to mining in the floodplain, Colorado Materials, Ltd will obtain all applicable floodplain development authorizations from the county, city, and/or FEMA. Temporary 25-foot natural vegetated buffers will be left in place around Bullhead Hollow, Unnamed Tributary 1 and Unnamed Tributary 2 (and associated 100-year floodplain) until quarrying begins in this area. Temporary rock berms will be placed near the downgradient end of these tributaries when mining is set to begin in these areas.

Grade breaks will be employed to ensure that runoff from disturbed areas of the Recharge Zone do not drain onto the Transition Zone.

A permanent 50-foot buffer along the property line (except where noted on the WPAP site plan) will serve as final treatment for stormwater leaving the site. Temporary BMPs consisting of earthen berms, rock berms, and natural vegetated areas will be utilized to control and treat stormwater runoff. Temporary earthen berms will be built as a result of clearing and will retain stormwater runoff from disturbed areas prior to excavation. Temporary natural vegetated areas will be maintained outside of the temporary earthen berm surrounding the pit. These temporary natural vegetated areas will decrease in size as the quarry expands to the Final Quarry Limits. A minimum of 50 feet of natural vegetation will be maintained between the Final Earthen Berm and the property line, unless an agreement can be made with the adjacent landowner to quarry to the property line. BMPs such as grade breaks and berms may be put in place as necessary to prevent flow of stormwater between the neighboring properties. Otherwise a 50-foot setback from the property lines will be maintained. Trash generated on-site will be disposed of in a dumpster and handled by a licensed waste service. Portable toilets will be used at Hunter III. The toilets will be located at least 20 feet from any sensitive feature buffer area and serviced by a licensed waste service.

**Colorado Materials, Ltd**  
**Hunter III**

Routine maintenance will not occur at the proposed Hunter III site. To the extent feasible maintenance will be performed at the existing quarry. A mobile fuel truck may be used to fuel equipment on the Hunter III site.

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 III is 584 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 recharge zone portion of the site. Fifteen (15) geological and man-made features were discovered on-site during field reconnaissance. Two of the features identified, S-2 and S-12, were classified as sensitive in accordance with the "Instructions for Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones" (TNRCC-0585-Instructions (Rev. 10-1-04)).



# Geologic Assessment

## Texas Commission on Environmental Quality

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

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

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

## Signature

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

Print Name of Geologist: Michelle M. Lee

Telephone: 830.249.8284

Date: July 1, 2016

Fax: 830.249.0221

Representing: Westward Environmental, Inc. (Name of Company and TBPB or TBPE registration number)

Signature of Geologist:

Michelle M. Lee



Regulated Entity Name: HUNTER IN

## Project Information

1. Date(s) Geologic Assessment was performed: March 1, 2, 3, 14, 15, 16 & 22, 2016

2. Type of Project:

☒ WPAP  
☐ SCS

☐ AST  
☐ UST

3. Location of Project:

☒ Recharge Zone  
☐ Transition Zone  
☐ Contributing Zone within the Transition Zone

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

**Table 1 - Soil Units, Infiltration Characteristics and Thickness**

Soil Name	Group*	Thickness(feet)
Anb	D	2.5
CrD	D	1
DeB	D	3
HeC3	D	6.5
RUD	D	2.5

*\* Soil Group Definitions (Abbreviated)*

- A. Soils having a high infiltration rate when thoroughly wetted.
- B. Soils having a moderate infiltration rate when thoroughly wetted.
- C. Soils having a slow infiltration rate when thoroughly wetted.
- D. Soils having a very slow infiltration rate when thoroughly wetted.

6. ☒ **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. ☒ **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. ☒ **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'  
 Applicant's Site Plan Scale: 1" = 300'  
 Site Geologic Map Scale: 1" = 300'  
 Site Soils Map Scale (if more than 1 soil type): 1" = 300'
9. Method of collecting positional data:  
☒ Global Positioning System (GPS) technology.  
☐ Other method(s). Please describe method of data collection: \_\_\_\_\_
10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- ☐ Geologic or manmade features were not discovered on the project site during the field investigation.
13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- ☒ There are 2 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- ☐ The wells are not in use and have been properly abandoned.
- ☐ The wells are not in use and will be properly abandoned.
- ☒ The wells are in use and comply with 16 TAC Chapter 76.
- ☐ There are no wells or test holes of any kind known to exist on the project site.

### ***Administrative Information***

15. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

# ATTACHMENT A

GEOLOGIC ASSESSMENT TABLE						PROJECT NAME: Colorado Materials - HUNTER III														
LOCATION			FEATURE CHARACTERISTICS										EVALUATION			PHYSICAL SETTING				
1A	1B*	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	DIP (DEG)	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)	TOPOGRAPHY	
						X	Y	Z		10						<40	≥40	<1.6	≥1.6	
S-1	29.82804	-98.03749	F	20	Kep	~750	~10	~5	52	10			C, F	7	37	X				DRAINAGE
S-2	29.82839	-98.03734	ZSC	30	Kep	~288	~5	~3	52	10			F,N,O	9	49		X			CLIFF
S-3	29.82951	-98.03395	ZSC	30	Kep	~50	~19	5	80				F,O,C	9	39	X				DRAINAGE
S-4	29.83082	-98.02916	SC	20	Kep	3.1	0.9	1.9	190				F,O	8	28	X				HILLSIDE
S-5	29.82674	-98.03590	ZO	30	Kep	60	5	4	142				N	8	38	X				DRAINAGE
S-6	29.83143	-98.02863	SC	20	Kep	0.5	0.3	1.1	155				F,O	7	27	X				HILLSIDE
S-7	29.82954	-98.02917	SH	20	Kep	15	5	4	0				F	15	35	X				HILLSIDE
S-8	29.83329	-98.03100	F	20	Kep	~1000	?	?	80				F, C	7	27	X				HILLSIDE
S-9	29.82205	-98.03093	F	20	Kep	~1200	?	?	56	10			F, C	7	37	X				HILLSIDE
S-10	29.82252	-98.02888	Z	30	Kep	~1500	~50	~3	19				F,C,N	9	39	X				DRAINAGE
S-11	29.82158	-98.02477	O	5	Kep	~11	5.5	2.8	150				F,C,O	8	13	X				HILLSIDE
S-12	29.82525	-98.02529	SC	20	Kep	0.7	0.4	>5	0				N	25	45		X			HILLSIDE
S-13	29.81877	-98.02860	MBW	30	Kep	0.5	0.5	?	0				X	0	30	X				HILLSIDE
S-14	29.82332	-98.02729	MBW	30	Kep	0.5	0.5	?	0				X	0	30	X				HILLSIDE
S-15	29.82235	-98.02331	F	20	Kep/Kau	~3282	?	?	48	10			F, C	7	37	X				HILLSIDE

\* DATUM: NAD 83

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	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
C Coarse - cobbles, breakdown, sand, gravel
O Loose or soft mud or soil, organics, leaves, sticks, dark colors
F Fines, compacted clay-rich sediment, soil profile, gray or red colors
V Vegetation. Give details in narrative description
FS Flowstone, cements, cave deposits
X Other materials

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

have read, I understand, and I have followed the Texas Commission on Environmental Quality's (TCEQ) rules and regulations. 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 TAC Chapter 109.

*Michelle M. Lee*



Date *July 1, 2016*



**TABLE 1**  
**SOILS NARRATIVE**  
**COLORADO MATERIALS – HUNTER III**

One (1) soil type was identified at the subject site: Crawford and Bexar stony soils (Cb), 0 to 3 percent slopes. This soil unit is presented on the Geologic Assessment form as well as in the table below.

Soil Units, Infiltration Characteristics & Thickness			
Soil Name	Group *	Thickness (feet)	Description
Anhalt Clay, 1 to 3 percent slopes	AnB	2.5	29 inches to bedrock, well drained, very low to moderately low (0.00 to 0.06 in/hr) Ksat capacity
Comfort Rock Outcrop Complex, 1 to 8 percent slopes	CrD	1	13 inches to bedrock, well drained, moderately low to moderately high (0.06 to 0.20 in/hr) Ksat capacity
Denton Silty Clay, 1 to 3 percent slopes	DeB	3	36 inches to bedrock, well drained, very low to moderately low (0.00 to 0.06 in/hr) Ksat capacity
Heiden Clay (Eroded), 3 to 5 percent slopes	HeC3	6.5	Clay to 80 inches, well drained, very low to moderately low (0.00 to 0.06 in/hr) Ksat capacity
Rumple-Comfort Association, 1 to 8 percent slopes	RUD	2.5	28 inches to bedrock, well drained, moderately high (0.20 to 0.57 in/hr) Ksat capacity

**ATTACHMENT B**  
**GEOLOGIC NARRATIVE**  
**COLORADO MATERIALS - HUNTER III**

System	Group	Formation	Member	Thickness (feet)	Lithology	Field Identification	Cavern Development	Porosity/Permeability Type
Upper Cretaceous				225-350	Buff to white chalk; limestone and marl	White, light-gray limestone	Rare	Low porosity / low permeability
	Eagle Ford Group (Kef)			30-50	Brown, flaggy shale and argillaceous limestone	Thin flagstone; petroliferous odor	None	Low porosity / low permeability
	Buda Limestone (Kbu)			40-50	Buff, light-gray, dense mudstone	Porcelaneous limestone with calcite-filled veins	Minor surface karst	Low porosity / low permeability
	Del Rio Clay (Kdr)			40-50	Blue-green to yellow-brown clay	Fossiliferous; <i>Ilymatogyra arietina</i>	None	None/primary upper confining unit
Lower Cretaceous	Georgetown Formation (Kgt)			2-20	Reddish-brown, gray to light-tan, marly limestone	Marker fossil; <i>Waconella wacoensis</i>	None	Low porosity / low permeability
	Edwards Group (Ked)		Cyclic and marine members undivided	80-90	Mudstone to packstone; <i>miloloid</i> grainstone; chert	Thin graded cycles; massive beds to relatively thin beds; crossbeds	Many subsurface; might be associated with earlier karst development	Laterally extensive; both fabric and not fabric / water yielding
			Leached and collapsed members, undivided	70-90	Crystalline limestone; mudstone to grainstone; chert; collapsed breccia	Bioturbated iron-stained beds separated by massive limestone beds; stromatolitic limestone	Extensive lateral development; large rooms	Majority not fabric / one of the most porous and permeable
			Regional dense member	20-24	Dense argillaceous mudstone	Wispy iron-oxide stains	Very few; only vertical fracture enlargement	Not fabric / low permeability; vertical barrier
			Grainstone member	50-60	<i>Miloloid</i> grainstone; mudstone to wackestone; chert	White cross-bedded grainstone	Few	Not fabric / recrystallization reduces permeability
			Kirschberg evaporite member	50-60	Highly altered crystalline limestone; chalky mudstone; chert	Boxwork voids, with neospar and travertine frame	Probably extensive cave development	Majority fabric / one of the most porous and permeable
			Dolomitic member	110-130	Mudstone to grainstone; crystalline limestone; chert	Massively bedded, light gray <i>Toucasia</i> abundant	Caves related to structure or bedding planes	Mostly not fabric; some bedding-plane fabric / water-yielding
			Basal nodular member	50-60	Shaly, nodular limestone; mudstone and <i>miloloid</i> grainstone	Massive, nodular and mottled, <i>Exogyra texana</i>	Large lateral caves at surface; a few caves near Cibola Creek	Fabric; stratigraphically controlled / large conduit flow at surface; no permeability in subsurface
	Upper member of the Glen Rose Limestone (Kgru)			350-500	Yellowish tan, thinly bedded limestone and marl	Stair-step topography; alternating limestone and marl	Some surface cave development	Some water production at evaporite beds / relatively impermeable

formation observed at the surface of the site during field reconnaissance

Adapted from Stein and Ozuna, 1996

**ATTACHMENT C**  
**GEOLOGIC NARRATIVE**  
**HUNTER III**

**Geologic Assessment**  
**Colorado Materials**  
**Hunter, Comal County, Texas**  
**WEI Proj. No.: 10080-102**

Overview

The subject property is approximately 440 acres in size and is located adjacent to the northeast of the existing Colorado Materials Hunter Quarry located on FM 1102, Hunter, Comal County, Texas. The Site is located on the Edwards Aquifer Recharge Zone (EARZ) and the Edwards Aquifer Transition Zone (EATZ). The geologic assessment (GA) was performed over the area shown on the Geologic Map, approximately 350 acres. The project area boundaries were provided to Westward Environmental, Inc. (WESTWARD) by Colorado Materials. Fifteen (15) recharge features were identified during this investigation. Field reconnaissance was performed in accordance with the *"Instructions for Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones"* (TNRCC-0585-Instructions (Rev. 10-1-04)).

Field Work

Field reconnaissance was performed at the site by Michelle M. Lee, Texas Professional Geoscientist (PG) #6071 and one other field crew member on March 1, 2, 3, 14, 15, 16, 22 & June 9, 2016. Field transects of the site were walked utilizing a 50-foot maximum spacing.

The site was cleared sometime in late 2015 according to historical aerial photos. As a result, the natural bedrock surface at the site was mostly obscured and covered with soil, loose rock and downed vegetation. Large piles of downed trees and other types of vegetation were also observed across the site. As a result of the clearing, numerous non-karst closed depressions were created by the uprooting of trees and vegetation. Although some of these areas meet the TCEQ definition of a non-karst closed depression, they were not mapped as such since they were man made.

Stratigraphy

The primary surface geologic formation observed at the site is the Edwards Limestone Group, Person Formation (Kep). Visual confirmation of the Leached & Collapsed Member was made in a few locations along roads where the native bedrock was somewhat visible and in drainages. Minor exposures of the Kainer Member (Kek) of the Edwards Group are mapped in the topographic low areas in the west and southwest areas but were not visually observed during field reconnaissance. In the southern portion of the site, the Cretaceous Austin Chalk (Kau) is present and was observed on the downthrown side of the main Balcones fault

Structure

Four (4) faults were identified from field reconnaissance and published geologic data. The main Balcones Fault is present in the southern portion of the Site where the Kep is juxtaposed to the Kau. Several areas of movement without displacement were also observed in drainages. The northern and northwestern areas of the site are marked by abrupt changes in elevation, up to 70 ft. It is possible that episodes of uplift and subsidence along the Balcones Escarpment have created horst-graben sequences in this area marked by abrupt elevation changes. Marker beds in the Kep were also observed at different elevations across the site further supporting the faulting activity. Dominant trend for this Site was determined to be between 45° and 60°.

### Karst Features

Three (3) solution cavities, two (2) solution-cavity zones and one (1) sink hole were observed during field reconnaissance at the site and mapped. Although probability of rapid infiltration is low, feature S-2 is a solution-cavity zone that is classified as sensitive due the extra 10 points assigned for trend whereas the other karst features are not sensitive.

### Geologic and Man-Made Features

A total of fifteen (15) geologic and man-made features were identified during field reconnaissance. The features consisted of three (3) solution cavities, four (4) faults, one (1) other natural feature in bedrock, two (2) man-made features in bedrock one (1) sinkhole and four (4) zones. Of the 15 features, two (S-2 & S-12) are classified as sensitive in accordance with the "Instructions for Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones" (TNRCC-0585-Instructions (Rev. 10-1-04)).

Each feature identified during field reconnaissance is discussed below.

#### **S-1 (F):**

#### **Not Sensitive**

S-1 is a fault located in the northern area of the site. There is an abrupt change in elevation from the floor of the drainage to the top of the bluff on the upthrown side. Portions of the upthrown bluff have dipping beds in this area, closer to the western site boundary. The drainage was observed to covered in fine-grained sediment and loose rock. Relative infiltration rate (RIR) is low.

#### **S-2 (ZSC):**

#### **Sensitive**

S-2 is a zone of solution cavities that measures ~ 288 ft. x ~5 ft. x ~3 ft. oriented at 52° in a bluff above the drainage created from S-1. The openings of the cavities range in size from ~2" to over 3" in any given direction. Most of the cavities are horizontal with an upward turn at the back. However, there are some with a downward turn at the terminus of the opening. Some fine-grained sediment infill was observed while no infill was observed in others. The features are located in the rock bluff ~ 15 ft. above the drainage floor and not subject to normal recharge. The orientation of the zone in the bluff assigned 10 extra points to the feature technically making it sensitive although probability of rapid infiltration is very low.

#### **S-3 (ZSC):**

#### **Not Sensitive**

S-3 is zone of solution cavities observed in a drainage in the northern area of the Site that measures ~50 ft. x ~19 ft. x ~5 ft. and is oriented at 80°. Features varied in size, shape and location within the drainage. Some openings are in the small bluff and others near the floor of the drainage. Openings were up to ~5 ft. and were turned up towards the surface for the most part. Grass, organic material, fine-grained sediment and other small vegetation was also observed in various locations in the features during field reconnaissance. RIR is low.

#### **S-4 (SC):**

#### **Not Sensitive**

S-4 is a solution cavity observed under a large boulder in an area with some bedrock at the surface. The feature measures ~3.1 ft. x ~0.9 ft. x ~1.9 ft. and is oriented at 190° with fine-grained sediment infill. RIR is low.

#### **S-5 (CD):**

#### **Not Sensitive**

S-5 is an 'other' feature in bedrock resembling scoured potholes. There are three of them in a line all oriented at 142°. The area of these features measures ~60 ft. x ~ 5 ft. x ~4 ft. with the smallest and shallowest pothole located on the southeastern end of the line and higher in elevation than the other two. Infill varied from organics and fine-grained-sediment to no infill. There was evidence of holding water in the past in two of the three pot holes. RIR is low.



**S-6 (SC):****Not Sensitive**

S-6 is a small solution cavity that measures  $\sim 0.5' \times \sim 0.3' \times 1.1'$  and is oriented at  $155^\circ$ . Feature is filled with fine-grained sediment. RIR is low.

**S-7 (SH):****Not Sensitive**

S-7 is an inferred sink hole that measures  $\sim 15' \times \sim 5' \times \sim 4'$  and is oriented at  $0^\circ$ . The feature is located in an isolated topographic low area where the adjacent surface to the west, north & east rises up  $\sim 10$  ft. higher. There is a rock rim around the western and northern parts of the depressed area. In the southwestern corner is an opening that is  $\sim 4'$  in depth. Clearing of vegetation has obscured most of the natural surface and had spread fine-grained sediment over the area. Grass was observed growing here during field reconnaissance. RIR is low.

**S-8 (F):****Not Sensitive**

S-8 is a fault that is in the far northeastern corner of the property and is oriented at  $80^\circ$ . There is a visual indication of the fault in this area by the abrupt change in topography. It is also roughly perpendicular to, and intersects fault S-2. Fine-grained sediment was observed at the surface in addition to loose rock and cobbles. RIR is low.

**S-9 (F):****Not Sensitive**

According to published sources, S-9 is a fault that crosses the road easement in the far southern portion of the site. It juxtaposes the Kau to the Cretaceous-aged Pecan Gap Formation (Kpg). The surface is covered with fine-grained sediment and grasses. The RIR is very low.

**S-10 (Z):****Not Sensitive**

S-10 is a zone of different features located in a drainage way in the center of the site that measures  $\sim 1500' \times \sim 50' \times \sim 3'$  with a predominant orientation of  $19^\circ$  before turning to  $\sim 28^\circ$ . In this zone, a fault, other features in bedrock, solution cavities and tilting bedrock layers were observed during field reconnaissance. Solution cavities ranged in size from  $\sim 3''$  to  $>1.5'$  whereas other features measured up to  $4'$  in one direction. Infilling was fine-grained to coarse, organic matter. Orientation of cavities also varied from near horizontal to pointing upwards towards the surface. The drainage had a mix of vegetation, including grass, and large, flaggy and slightly tilted outcrops of limestone bedrock. Vertical solution cavities were not observed in the flaggy outcrops. Vertical displacement was not observed in the southwestern leg of the zone. RIR is low.

**S-11 (O):****Not Sensitive**

S-11 is an 'other' feature in bedrock that measures approximately  $\sim 11' \times \sim 5.5' \times \sim 2.8'$  at  $150^\circ$ . This feature is located in a minor drainage in the Kau where tilted and fractured bedrock was observed. Although movement has occurred in the formation there was no visual vertical displacement. Possibly the result of uplift and subsidence along the Balcones Fault Zone. Relative infiltration rate (RIR) is low.

**S-12 (SC):****Sensitive**

S-12 is a vertical solution cavity that measures  $\sim 9'' \times \sim 5''$  at the opening and is  $>5'$  deep. The opening at the surface is oriented at  $0^\circ$  and becomes larger at depth with algae stains observed on the side walls. Coarse materials were observed at the bottom. It is unknown if the feature terminates here or extends deeper in another direction. The feature is located on a hillside near a hill top with a small catchment area. RIR is moderate.

**S-13 (MBW):****Not Sensitive**

S-13 is a water well located near a pond in the southern area. No driller's report could be located in the TWDB database for this well. RIR is low.



**S-14 (MBW):**

**Not Sensitive**

S-14 is a water well located near the central interior area of the Site. The well is in an enclosure and appeared to be in use and compliance at the time of field reconnaissance. No well record could be located in the TWDB database. RIR is low.

**S-15 (F):**

**Not Sensitive**

S-15 is the main Balcones fault that separates the EARZ and the EATZ. This feature is oriented at 48° and juxtaposes the Kep to the Kau. The fault line had been cleared at the time of field reconnaissance and was covered in fine-grained sediment and loose rock. RIR is low.



SELECTED PHOTOGRAPHS



S-1



S-2





S-2



S-3





S-3



S-4





S-5



S-6





S-7



S-10





S-10



S-10





S-11



S-11





S-12



S-12





S-13



S-14



## Groundwater Elevation

Texas Water Development Board (TWDB) website was reviewed for water well information and water elevation data. No Edwards Aquifer well data was available for the area subject to this Geologic Assessment. There are Edwards Aquifer water wells in the area. The closest Edwards Aquifer well (#42108) used to estimate the approximate water elevation is located approximately 4,300 ft. from the center of the site. This well was selected based on it being in the same structural block as the majority of the site. Although there are closer wells to the southeast, they are separated by a large fault and are not representative of site conditions. A copy of the well log #42108 is provided on the next pages

Well #42108 was drilled on April 9, 2004 to a depth of 250 feet below ground surface (bgs) and a water elevation measurement was also taken at a level of 196 ft. bgs. The log does not have surface elevation recorded. Google Earth shows ~780 ft. bgs. above mean sea level (amsl). Therefore, the ground water elevation for the Edwards Aquifer at this location can be calculated as follows:

$$\begin{aligned} \text{Surface Elevation (amsl)} - \text{Water Level (bgs)} &= \text{Groundwater Elevation (amsl)} \\ 780 \text{ ft. amsl} - 196 \text{ ft. bgs} &= \underline{584 \text{ ft. amsl}} \end{aligned}$$

### Hunter III



**Texas Water  
Development Board**  
June 13, 2016

● Plugging Reports ● TWDB Groundwater  
● Well Reports



0 0.3 0.6 1.2 mi  
0 0.5 1 2 km  
1:30,112'

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroX, Earthstar, AeroGRID, IGN, IGP, swisstopo, and the

TEXAS WATER DEVELOPMENT BOARD



Site

Edwards Water Well used in groundwater elevation calculations

## References

Geologic Atlas of Texas, San Antonio Sheet, Texas Bureau of Economic Geology, 1983.

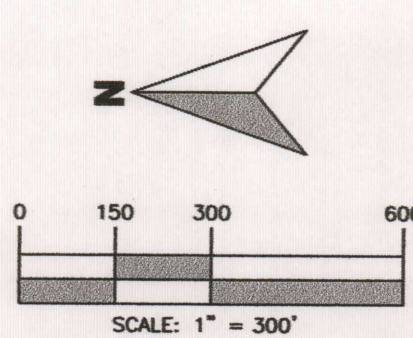
Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones, TCEQ-0585-Instructions (Rev. 10-01-04)

Texas Water Development Board WIID website, <http://twdb.state.tx.us> , well logs and groundwater data.

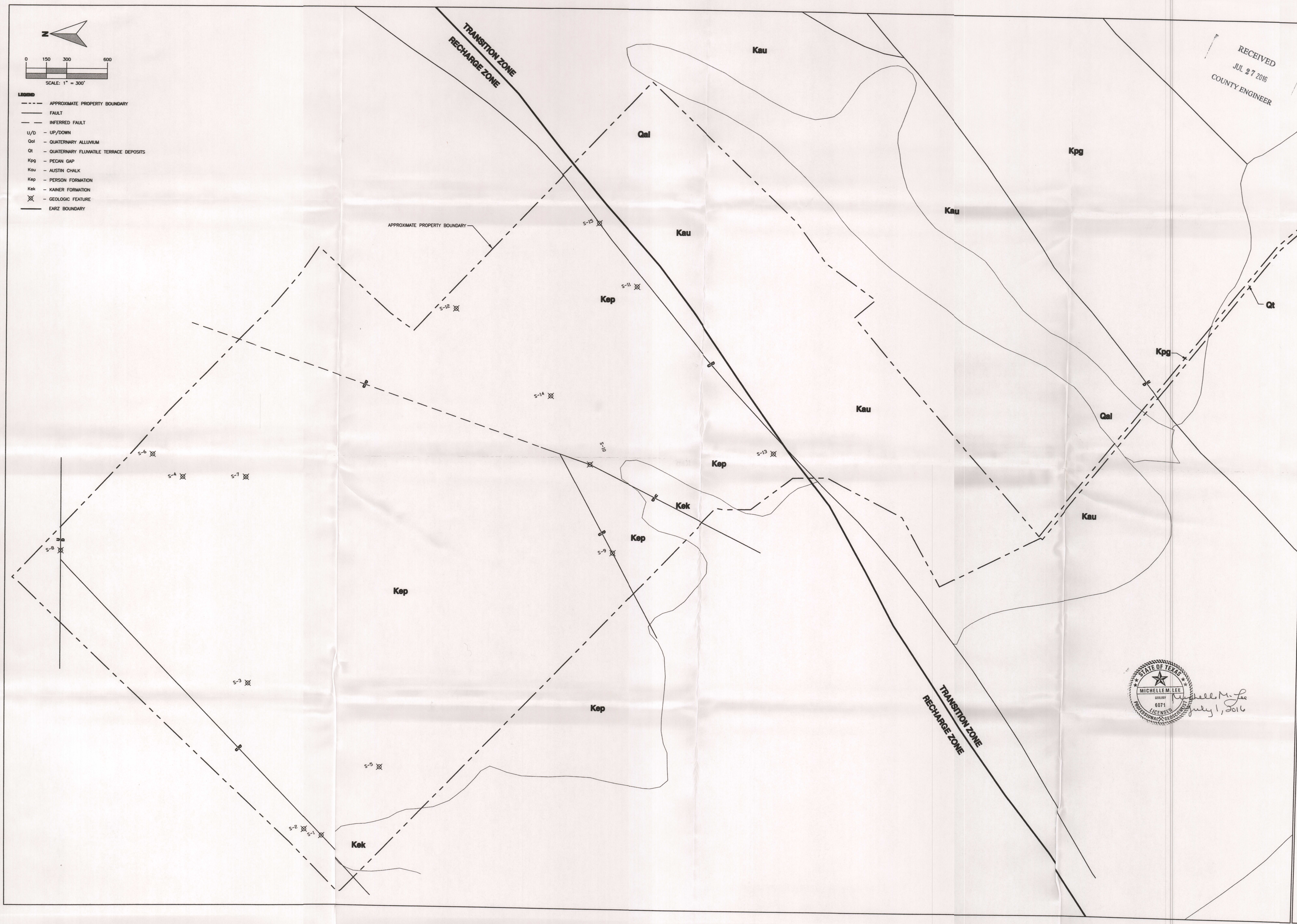
Urban Hydrology for Small Watersheds, Technical Release No.: 55, Appendix A, Soil Conservation Service, 1986.

USDA website, <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>, web soil survey.





- LEGEND**
- - - - - APPROXIMATE PROPERTY BOUNDARY
  - FAULT
  - - - - - INFERRED FAULT
  - U/D — UP/DOWN
  - Qal — QUATERNARY ALLUVIUM
  - Qt — QUATERNARY FLUVIAL TERRACE DEPOSITS
  - Kpg — PECAN GAP
  - Kau — AUSTIN CHALK
  - Kep — PERSON FORMATION
  - Kek — KAINER FORMATION
  - ⊗ — GEOLOGIC FEATURE
  - EARZ BOUNDARY



RECEIVED  
JUL 27 2016  
COUNTY ENGINEER

IMAGE: NONE  
ISSUE DATE: 07/01/2016  
DRAWN BY: JJS  
CHECKED BY: ML  
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JOB #: 10080-102

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**01**  
OF 01

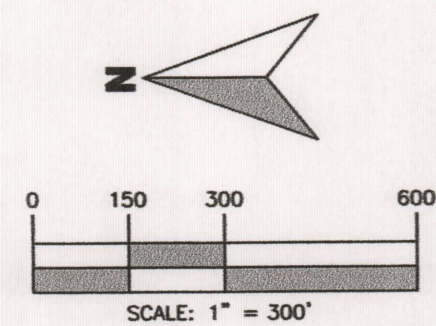
**WESTWARD**  
Environmental Engineering, Natural Resources,  
P.O. Box 2205 Boerne, Texas 78006  
(830) 249-8284 Fax: (830) 249-0221  
TBPB REG. NO.: F-4524  
TBPB REG. NO.: 50112

REV.	DESCRIPTION	BY	DATE

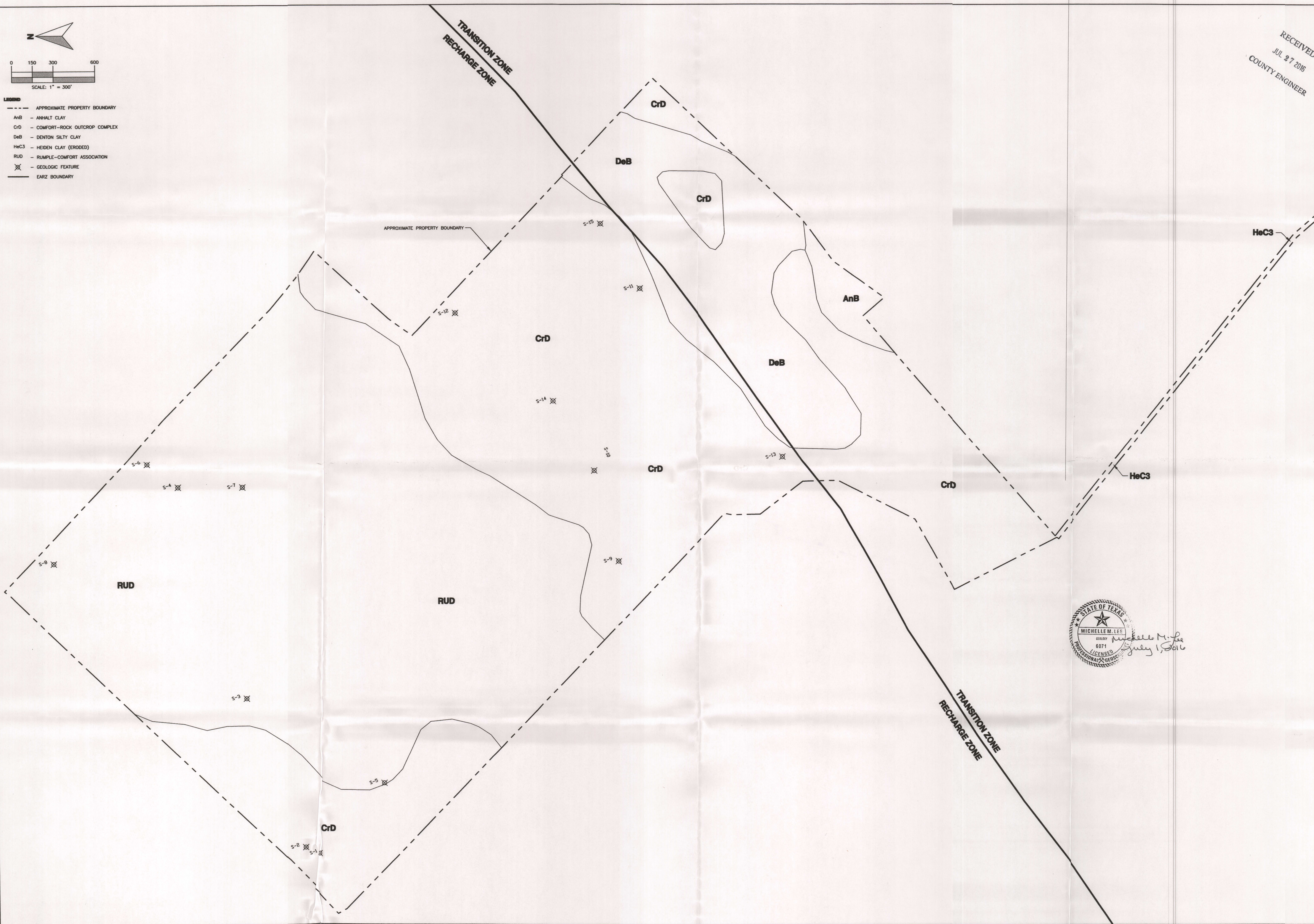
STATE OF TEXAS  
MICHELLE M. LEE  
6071  
LICENSED PROFESSIONAL GEOLOGIST  
*Michelle M. Lee*  
July 1, 2016

**GEOLOGY MAP**  
HUNTER III  
COLORADO MATERIALS, LTD  
HUNTER, COMAL COUNTY, TEXAS





- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
  - AnB - ANHALT CLAY
  - CrD - COMFORT-ROCK OUTCROP COMPLEX
  - DeB - DENTON SILTY CLAY
  - HeC3 - HEIDEN CLAY (ERODED)
  - RUD - RUMPLE-COMFORT ASSOCIATION
  - ⊗ - GEOLOGIC FEATURE
  - EARZ BOUNDARY



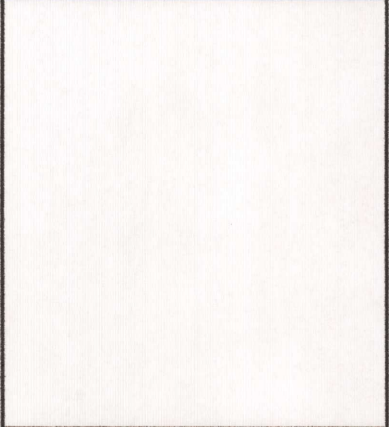
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JUL 27 2016  
COUNTY ENGINEER

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SCALE:	1" = 300'
JOB #:	10080-102

SHEET #:  
**01**  
OF 01

**WESTWARD**  
Environmental Engineering, Natural Resources.  
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(830) 249-8284 Fax: (830) 249-0221  
TBPE REG. NO.: F-4524  
TBPG REG. NO.: 50112

REV	DESCRIPTION	BY	DATE



**SOILS MAP**  
HUNTER III  
COLORADO MATERIALS, LTD  
HUNTER, COMAL COUNTY, TEXAS



# Article I. Water Pollution Abatement Plan Application

Texas Commission on Environmental Quality

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

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

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

## Section 1.01 Signature

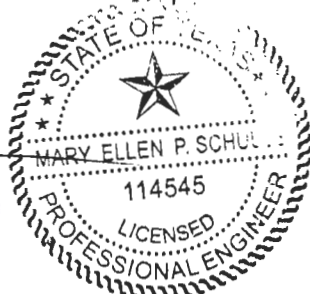
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Mary Ellen P. Schulle, PE

License No. 114545 | TX Firm No. 4524

Date: July 22, 2016

Signature of Customer/Agent:



Regulated Entity Name: Hunter III

## Section 1.02 Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: \_\_\_\_\_
- ☐ Residential: Number of Living Unit Equivalents: \_\_\_\_\_
- ☐ Commercial
- ☒ Industrial
- ☒ Other: Quarry

2. Total site acreage (size of property): ~440

3. Estimated projected population: 3

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

1 of 5

**Article II. Table 1 - Impervious Cover Table**

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops		$\div 43,560 =$	
Parking		$\div 43,560 =$	
Other paved surfaces		$\div 43,560 =$	
Total Impervious Cover	0	$\div 43,560 =$	0

Total Impervious Cover 0  $\div$  Total Acreage 0  $\times 100 =$  0% Impervious Cover

5. ☒ **Attachment A - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.
6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

**Section 2.01 For Road Projects Only**

(a) Complete questions 7 - 12 if this application is exclusively for a road project.

7. Type of project:

- ☐ TXDOT road project.
- ☐ County road or roads built to county specifications.
- ☐ City thoroughfare or roads to be dedicated to a municipality.
- ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

- ☐ Concrete
- ☐ Asphaltic concrete pavement
- ☐ Other: \_\_\_\_\_

9. Length of Right of Way (R.O.W.): \_\_\_\_\_ feet.

Width of R.O.W.: \_\_\_\_\_ feet.

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

10. Length of pavement area: \_\_\_\_\_ feet.

Width of pavement area: \_\_\_\_\_ feet.

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

Pavement area \_\_\_\_\_ acres  $\div$  R.O.W. area \_\_\_\_\_ acres  $\times 100 =$  \_\_\_\_\_ % 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.

### **Section 2.02 Stormwater to be generated by the Proposed Project**

13. ☒ **Attachment B - Volume and Character of Stormwater.** A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

### **Section 2.03 Wastewater to be generated by the Proposed Project**

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

<u>100%</u> Domestic	<u>10</u> Gallons/day
<u>      </u> % Industrial	<u>      </u> Gallons/day
<u>      </u> % Commingled	<u>      </u> Gallons/day
TOTAL gallons/day <u>10</u>	

15. Wastewater will be disposed of by:

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

☐ **Attachment C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☐ 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.

☐ Sewage Collection System (Sewer Lines): **N/A**

☐ 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 N/A (name) Treatment Plant. The treatment facility is:

☐ Existing.

☐ Proposed.

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

## **Section 2.04 Site Plan Requirements**

*(a) Items 17 – 28 must be included on the Site Plan.*

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

Site Plan Scale: 1" = 300'.

18. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.

☐ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FIRM PANELS 48209C0460F and 48209C0459F eff. 9/2/2005

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☒ There are 2 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.

☐ The wells are not in use and will be properly abandoned.

☒ 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:

☒ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.

☐ No sensitive geologic or manmade features were identified in the Geologic Assessment.

☐ **Attachment D - Exception to the Required Geologic Assessment.** A request and justification for an exception to a portion of the Geologic Assessment is attached.

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

### ***Section 2.05 Administrative Information***

- 29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.
- 30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.



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Hunter III**

**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 berms 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**

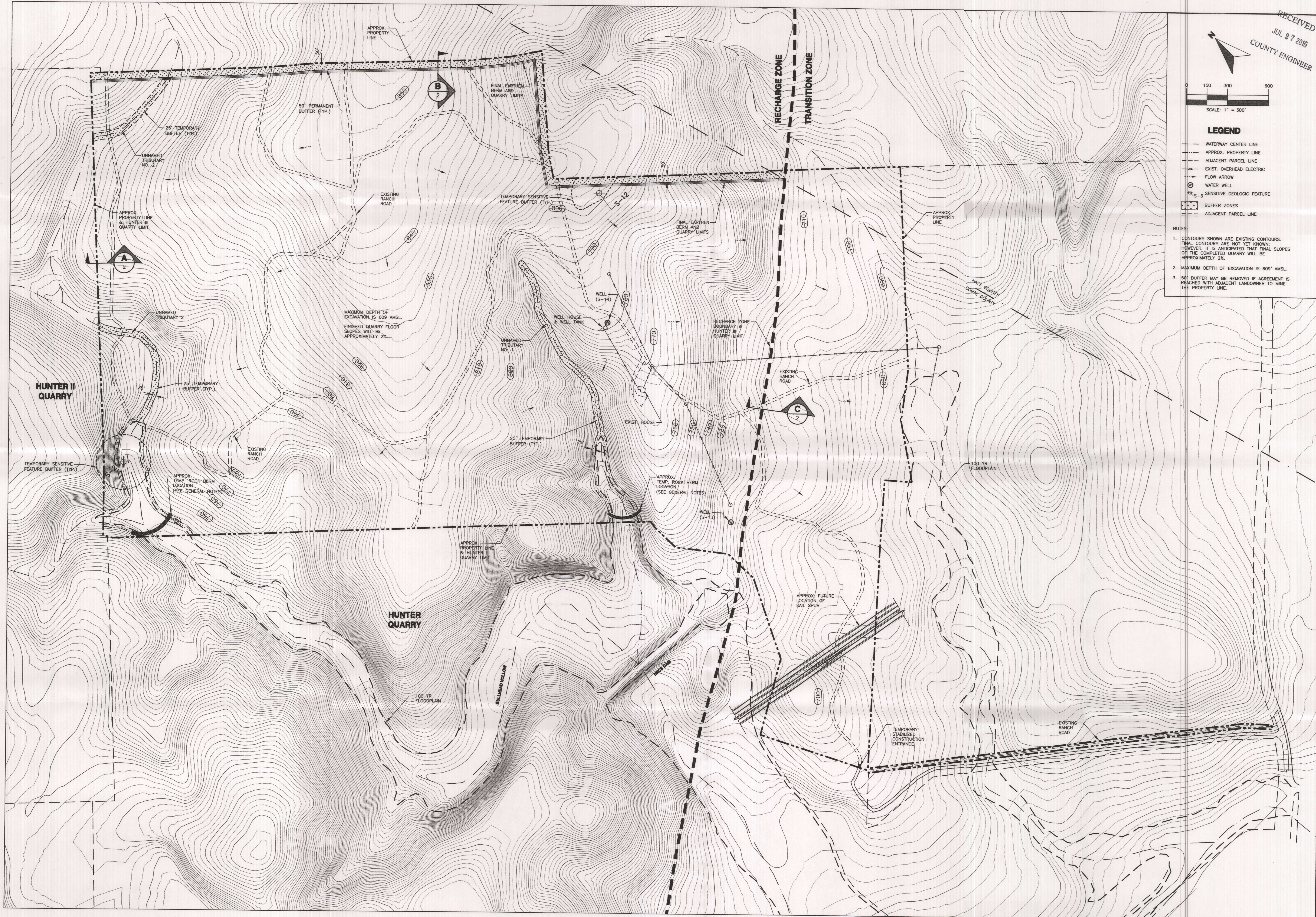
**Volume and Character of Stormwater**

The area of the proposed final quarry pit, as shown on the WPAP Site Plan, is approximately 350 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.

Stormwater will be kept separate between the adjacent quarries by means of maintaining a grade differential between the properties, or by using berms.

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.





RECEIVED  
JUL 27 2016  
COUNTY ENGINEER

0 150 300 600  
SCALE: 1" = 300'

**LEGEND**

- WATERWAY CENTER LINE
- APPROX. PROPERTY LINE
- ADJACENT PARCEL LINE
- EXIST. OVERHEAD ELECTRIC
- FLOW ARROW
- WATER WELL
- SENSITIVE GEOLOGIC FEATURE
- BUFFER ZONES
- ADJACENT PARCEL LINE

NOTES:  
1. CONTOURS SHOWN ARE EXISTING CONTOURS. FINAL CONTOURS ARE NOT YET KNOWN; HOWEVER, IT IS ANTICIPATED THAT FINAL SLOPES OF THE COMPLETED QUARRY WILL BE APPROXIMATELY 2%.  
2. MAXIMUM DEPTH OF EXCAVATION IS 609' AMSL.  
3. 50' BUFFER MAY BE REMOVED IF AGREEMENT IS REACHED WITH ADJACENT LANDOWNER TO MINE THE PROPERTY LINE.

IMAGE:  
ISSUE DATE: 07/20/2016  
DRAWN BY: WK  
CHECKED BY: MES  
SCALE: 1" = 300'  
JOB #: 10080-101

SHEET #:  
**C1**  
OF C2

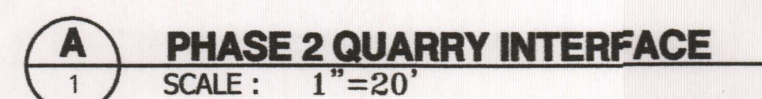
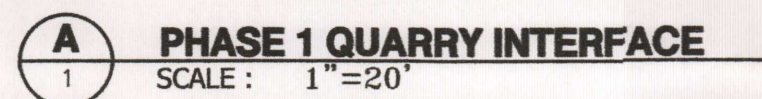
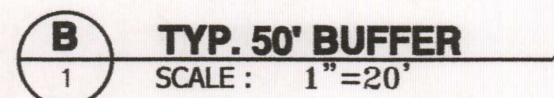
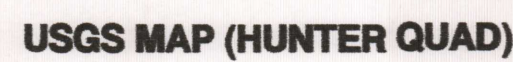
**WESTWARD**  
Environmental Engineering, Natural Resources  
P.O. Box 2205 Boerne, Texas 78006  
(830) 249-8284 Fax: (830) 249-0221  
TBP REG. NO.: F-4524  
TBP REG. NO.: 50112

REV	DESCRIPTION	BY	DATE

Professional Engineer Seal: Mary Ellen P. Schulte, P.E., License No. 114545

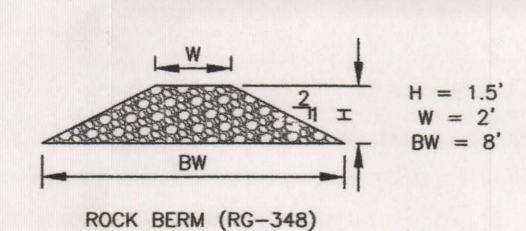
**WPAP SITE PLAN**  
WPAP HUNTER III  
COLORADO MATERIALS, LTD.  
5080 FM 2439, COMAL COUNTY, TX





**C** **TYP RZ ZONE BOUNDARY**  
1 SCALE : 1"=20'  
NOTE: VERTICAL SCALE IS  
EXAGGERATED TO SHOW  
INTENT OF GRADE BREAK.

- MAINTENANCE:  
INSPECT BERMS QUARTERLY. REMOVE SEDIMENT  
AND OTHER DEBRIS WHEN BUILDUP REACHES 6"  
REPLACE WHEN ROCK BECOMES CLOGGED WITH  
SEDIMENT.



**WPAP DETAILS**  
WPAP HUNTER III  
COLORADO MATERIALS, LTD.  
5080 FM 2439, COMAL COUNTY, TX



# Article I. Temporary Stormwater Section

## Texas Commission on Environmental Quality

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

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

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

### Section 1.01 Signature

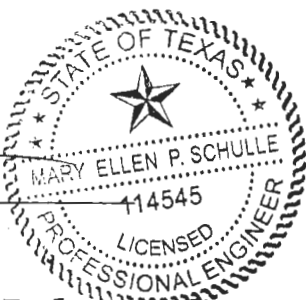
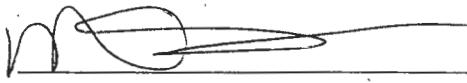
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The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

Print Name of Customer/Agent: Mary Ellen P. Schulle, PE

License No. 114545 | TX Firm No. 4524

Date: July 22, 2016

Signature of Customer/Agent:



Regulated Entity Name: Hunter III

### Section 1.02 Project Information

### Section 1.03 Potential Sources of Contamination

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

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

☐ The following fuels and/or hazardous substances will be stored on the site: \_\_\_\_\_

These fuels and/or hazardous substances will be stored in:

- ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.



- ☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- ☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- ☒ Fuels and hazardous substances will not be stored on the site.
- 2. ☒ **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. ☒ **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

### ***Section 1.04 Sequence of Construction***

- 5. ☒ **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
  - ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
  - ☒ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. ☒ 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, Unnamed Tributary 1, and Unnamed Tributary 2

### ***Section 1.05 Temporary Best Management Practices (TBMPs)***

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

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



- ☒ 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.
  - ☒ 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.
  - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
  - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☒ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☐ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of 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 is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
  - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
  - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
  - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.



- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

### **Section 1.06 Soil Stabilization Practices**

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

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



18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

### ***Section 1.07 Administrative Information***

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
22. ☒ 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.



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**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 spills must be reported to the TCEQ.
- (2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- (3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).
- (4) Establish a continuing education program to indoctrinate new employees.
- (5) Have contractor's superintendent or representative oversee and enforce proper spill prevention and control measures.

**General Measures**

- (1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, and substances listed under 40 CFR parts 110, 117, and 302, and sanitary and septic wastes should be contained and cleaned up 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.



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(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.



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- (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, 117, 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) 424-2208
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



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**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.
- (4) Equipment fueling will take place on a flex base pad. The flex base pad will be 1 ft. thick with a 1 ft. berm on all sides. The base pad will relocate as quarry expands. Fueling of plant equipment located in the pit will be conducted on a flex base pad.



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**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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



**Colorado Materials, Ltd  
Hunter III**

**Portable Toilet BMPs:**

Portable toilets will be used at Hunter III 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:**
  - Empty portable toilets before transporting them.
  - Securely fasten the toilets to the transport truck.
  - Use hand trucks, dollies, and power tailgates whenever possible.
  - Suppliers should carry bleach for disinfection in the event of a spill or leak.
  - 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 sensitive-feature 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 350-acre quarry. Quarrying will continue from the Hunter II Quarry and advance southeast across Hunter III. A 10-acre area along the shared property line will be cleared. The cleared topsoil will be used to construct temporary 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.



**Colorado Materials, Ltd  
Hunter III**

**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 site.

Temporary natural existing vegetation will be maintained in a 25-foot buffer along Bullhead Hollow, Unnamed Tributary 1 and Unnamed Tributary 2 (and associated 100-year floodplain). These buffers will be maintained until mining begins in these areas.

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, Unnamed Tributary 1 and Unnamed Tributary 2 (and the associated buffers and 100-year floodplain) will be mined. Temporary rock berms will be used near the downgradient end of these tributaries when mining is set to begin in these areas.

Areas outside of the temporary earthen berms surrounding the pit will remain undisturbed (temporary natural vegetated buffers) until cleared for blasting.

Where an agreement has been reached with the adjacent landowner to quarry to the property line, the Hunter III pit will be excavated deeper than the adjacent quarry pit and/or an earthen berm will be used to prevent flow between the two sites. If no agreement is reached, a minimum 50-foot natural vegetated buffer will be maintained at the property line.

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.

As the size of the quarry expands, the earthen berms will expand throughout the life of the project to the Final Earthen Berm. The pit and the berms will prevent stormwater from leaving the active portion of the site. Temporary natural existing vegetation will be maintained in a 25-foot buffer along Bullhead Hollow, Unnamed Tributary 1 and Unnamed Tributary 2 (and associated 100-year floodplain). These buffers will be maintained until mining begins in these areas. Temporary rock berms will be used near the downgradient end of these tributaries when mining is set to begin in these areas.

Areas outside of the temporary earthen berms surrounding the pit will remain undisturbed (temporary natural vegetated buffers) until cleared for blasting.

Where an agreement has been reached with the adjacent landowner to quarry to the property line, the Hunter III pit will be excavated deeper than the adjacent quarry pit and/or an earthen berm will



**Colorado Materials, Ltd**  
**Hunter III**

be used to prevent flow between the two sites. If no agreement is reached, a minimum 50-foot natural vegetated buffer will be maintained at the property line.

Grade breaks will be employed to ensure that runoff from disturbed areas of the Recharge Zone do not drain onto the Transition Zone.

7. c. TBMPs and measures will prevent pollution of surface streams, sensitive features and the aquifer.

Temporary 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, Unnamed Tributary 1 and Unnamed Tributary 2 (and associated 100-year floodplain). These buffers will be maintained until mining begins in these areas.

As the size of the quarry expands, the earthen berms that surround the pit 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, Unnamed Tributary 1 and Unnamed Tributary 2 (and the associated buffers and 100-year floodplain) will be mined and the earthen berms will continue to expand with the pit. Temporary rock berms will be used near the downgradient end of these tributaries when mining is set to begin in these areas.

Areas outside of the temporary earthen berms will remain undisturbed until cleared for blasting.

Temporary natural vegetation will remain surrounding feature(s) S-2 and S-12. As mining approaches the area, rock berms, silt fences, or other controls will be constructed around the feature to mitigate pollutants entering the feature(s). The feature(s) will be temporarily sealed and permanently removed by mining as the quarry expands its operating limits.

7. d. To the maximum extent practicable TBMPs and measures will maintain flow to naturally-occurring 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 rock berms, silt fences, and natural vegetated buffers upgradient of the sensitive features until the features are sealed and then removed by mining.

The vegetated buffer is used to limit runoff discharge of sediment. 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 possible 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



**Colorado Materials, Ltd  
Hunter III**

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 (PG) 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.

Colorado Materials, Ltd will provide feature recognition training to mining staff. Initial feature recognition training will also be provided to applicable new employees (site supervisors and quarry operators) within 90 days of hire. Refresher training will be provided to quarry operators as needed. All training will be conducted by the Site Supervisor or his designee using a training program prepared by a PG.

The site supervisor or his designee will maintain records of when features are identified by mining staff. These records will include the date the feature was identified, the general location of the feature, a general description of the feature, and what action was taken regarding the potential feature. These records will be maintained for five years and will be made available to the TCEQ upon request.

**Temporary Stormwater Section Attachment E**

**Request to Temporarily Seal a Feature**

Two naturally occurring sensitive features were identified in the GA (S-2, S-12).

The natural sensitive features will be temporarily sealed as mining activities approach the feature and the natural buffer area is diminished. Sealing the feature at that time protects against pollutants and runoff entering the feature from disturbed areas. Not sealing the feature may cause an increased risk of disturbed soils from entering the sensitive feature. The feature will be sealed in accordance with TCEQ methods using flowable fill or concrete, and will later be removed by mining.

**Temporary Stormwater Section Attachment F**

**Structural Practices**

Temporary best management practices proposed for the limestone quarry include earthen/rock 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. Rock berms will be used to limit TSS flow off site in Bullhead Hollow, Unnamed Tributary 1, and Unnamed Tributary 2 once mining begins in that area.



**Colorado Materials, Ltd  
Hunter III**

**Temporary Stormwater Section Attachment G**

See WPAP Site Plan.

**Temporary Stormwater Section Attachment I**

**Inspection and Maintenance for BMPs**

The earthen/rock berms and vegetated buffers should be inspected weekly during the active life of the quarry. 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 earthen berms should be backfilled and compacted as soon as possible. If a rock berm is no longer able to properly filter the sediment from the stormwater due to contamination from silt, it should be replaced. Trash should be removed and any eroded areas should be reseeded.

Hunter III 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.



**Colorado Materials, Ltd  
Hunter III**

**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.

Material stockpiles will be located in the quarry pit.

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:**

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.



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

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
- \* Reseed eroded areas to re-establish vegetation

Earthen Berm

- \* Erosion of earthen berm -
- \* fill eroded areas



# Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

## Signature

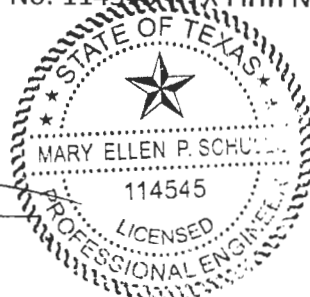
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The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

Print Name of Customer/Agent: Mary Ellen P. Schulle, PE

License No. 114545 TX Firm No. 4524

Date: July 22, 2016

Signature of Customer/Agent



Regulated Entity Name: Hunter III

## Permanent Best Management Practices (BMPs)

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

1. ☒ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.  
☐ N/A
2. ☒ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.



- ☒ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
- ☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: \_\_\_\_\_

☐ N/A

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

☐ N/A

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

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

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

- ☐ **Attachment A - 20% or Less Impervious Cover Waiver.** The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
- ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
- ☒ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater.**



- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- ☐ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.
7. ☒ **Attachment C - BMPs for On-site Stormwater.**
- ☒ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.
- ☐ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.
8. ☒ **Attachment D - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.
- ☐ N/A
9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.
- ☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.
- ☐ **Attachment E - Request to Seal Features.** A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.
10. ☒ **Attachment F - Construction Plans.** All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:
- ☐ Design calculations (TSS removal calculations)
- ☒ TCEQ construction notes
- ☒ All geologic features
- ☒ All proposed structural BMP(s) plans and specifications
- ☐ N/A



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

### ***Responsibility for Maintenance of Permanent BMP(s)***

***Responsibility for maintenance of best management practices and measures after construction is complete.***

14. ☒ 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.
- ☐ N/A
15. ☒ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.
- ☐ N/A



**Colorado Materials, Ltd  
Hunter III**

**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.

Where an agreement has been reached with the adjacent landowner to quarry to the property line, the Hunter III pit will be excavated deeper than the adjacent quarry pit and/or an earthen berm will be used to prevent flow between the two sites. If no agreement is reached, a minimum 50-foot natural vegetated buffer will be maintained at the property line.

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 Earthen Berm and the 50-foot vegetated buffer will be located along the property boundary where applicable.

**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 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 quarry pit. The vegetated Final Earthen Berm and the 50-foot vegetated buffer will be located along the property boundary where applicable.



**Colorado Materials, Ltd  
Hunter III**

**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 aquifer. The earthen berms that surround future disturbed areas will expand to protect Bullhead Hollow, Unnamed Tributary 1, Unnamed Tributary 2, and the associated 100-year floodplain 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.

Temporary natural existing vegetation will be maintained in a 25-foot buffer along Bullhead Hollow, Unnamed Tributary 1 and Unnamed Tributary 2 (and associated 100-year floodplain). These buffers will be protect the stream as mining activities approach them, and will be removed through mining.

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 50-foot vegetated buffer will be located along the property boundary where applicable.

**Permanent Stormwater Section Attachment F**

**Construction Plans**

See WPAP Site Plan.

**Permanent Stormwater Section Attachment G**

The Final Earthen Berm 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.



Colorado Materials, Ltd  
Hunter III

Inspection, Maintenance, Repair and Retrofit Plan

I, WALTER ULBRICHT, have read and understand the Inspection, Maintenance, Repair and Retrofit (IMRR) Plan contained in this Water Pollution Abatement Plan (WPAP).

I understand the specific Permanent Best Management Practices (PBMPs) and associated inspection and maintenance schedule which are outlined in this IMRR Plan. Colorado Materials, Ltd. will implement these inspections and perform maintenance as required to meet the intent of the IMRR Plan.

**Name and signature of responsible party for maintenance of permanent BMPs**

Print Name: WALTER ULBRICHT  
Colorado Materials, Ltd

Signature W. Ulbricht Date: 6-1-2016

**Name and signature of Engineer**

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



Signature Mary Ellen P. Schulle  
License No. 114545

Date: 7/6/16



Colorado Materials, Ltd  
Hunter III

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, Unnamed Tributary 1 and Unnamed Tributary 2 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. Flows from disturbed areas will be retained by earthen berms. The quarry pit will retain stormwater and any associated contaminants without discharge to surface water or stream channels. 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

I \_\_\_\_\_ Walter Ulbricht \_\_\_\_\_  
Print Name

\_\_\_\_\_ Secretary \_\_\_\_\_  
Title - Owner/President/Other

of \_\_\_\_\_ Colorado Materials, Ltd \_\_\_\_\_  
Corporation/Partnership/Entity Name

have authorized \_\_\_\_\_ Curt G. Campbell, PE and Mary Ellen Schulle, PE \_\_\_\_\_  
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.
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:

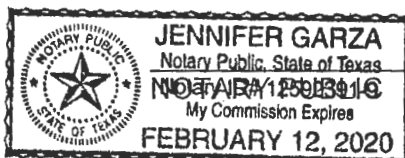
[Signature]  
Applicant's Signature

6-1-2016  
Date

THE STATE OF TEXAS §  
County of HAYS §

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

GIVEN under my hand and seal of office on this 1 day of JUNE, 2016



[Signature]  
Jennifer Garza

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: February 12, 2020



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

I Elizabeth Zwak  
Print Name

President  
Title - Owner/President/Other

of Rosa LAW Management LLC  
Corporation/Partnership/Entity Name

have authorized Walter Ulbricht  
Print Name of Agent/Engineer

of Colorado Materials, Ltd.  
Print Name of Firm

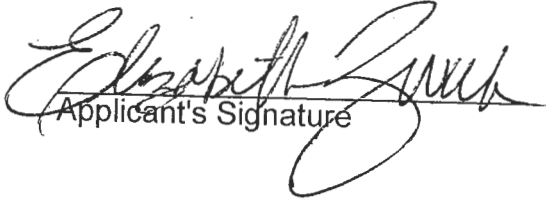
to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

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:

  
Applicant's Signature

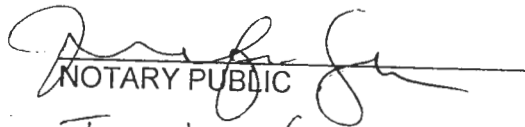
6-21-16  
Date

THE STATE OF Texas §

County of Hays §

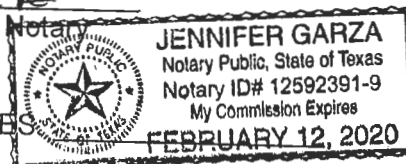
BEFORE ME, the undersigned authority, on this day personally appeared Elizabeth Zwick known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 21<sup>st</sup> day of June, 2016

  
NOTARY PUBLIC

Jennifer Garza  
Typed or Printed Name of Notary

MY COMMISSION EXPIRES







## COLORADO MATERIALS, LTD.

July 13, 2016

To whom it may concern,

This letter serves to affirm Walter Ulbricht is an authorized signatory for environmental permitting, authorizations, and plans including but not limited to: signing the Notice of Intent for obtaining coverage under a storm water general permit, a general wastewater permit, Edwards Aquifer Protection Plan, air authorization, Spill Prevention, Control, and Countermeasures Plan. As Secretary Treasurer of the General Partner of Colorado Materials, Ltd., Walter Ulbricht is a Company Officer with signatory authority for the aforementioned environmental permit applications.

A handwritten signature in black ink, appearing to read "W. Ulbricht".

Walter Ulbricht CPA  
Secretary Treasurer



**ROSA LAW MANAGEMENT L.L.C.**  
**P.O. BOX 2109**  
**SAN MARCOS TEXAS 78667**

June 1, 2016

Mr. Walter Ulbricht  
Colorado Materials, Ltd.  
P.O. Box 2109  
San Marcos, TX 78667

Subject: Edwards Aquifer Protection Plan  
Hunter III

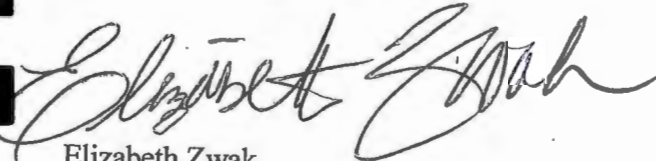
Dear Mr. Ulbricht,

Per TCEQ request, this letter serves as notification of the agreement between Rosa LAW Management L.L.C. and Colorado Materials, Ltd. on the property containing the approximately 420 acre project area, located on the northwest side of FM 2439, north of FM 1102, in Comal County, as described below. Rosa LAW Management L.L.C. grants Colorado Materials, Ltd the authority to possess and control said property for the purposes of commencing regulated activities (Quarry activities and associated BMPs) as described in 30 TAC 213, and to pull applicable permits for said activities.

Legal Description (Lot 1): A- 98 SUR- 1 S CRAFT  
ACRES 441.7  
A- 33 SUR- 3 L S BEASLEY

Legal Description (Lot 2): ABS 89 TR 3 SAMUEL CRAFT SURVEY 7.50 AC

Respectfully Submitted,

  
Elizabeth Zwak  
President  
Rosa LAW Management, L.L.C.



# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Hunter III

Regulated Entity Location: 5080 FM 2439, New Braunfels, TX 78132

Name of Customer: Colorado Materials, Ltd

Contact Person: Tom Singley

Phone: (512)396-1556

Customer Reference Number (if issued): CN 600522452

Regulated Entity Reference Number (if issued): RN NEW

Austin Regional Office (3373)

☐ Hays

☐ Travis

☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☒ Comal

☐ Kinney

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

☐ Austin Regional Office

☒ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

12100 Park 35 Circle

Building A, 3rd Floor

Austin, TX 78753

(512)239-0357

Site Location (Check All That Apply):

☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

Type of Plan	Size	Fee Due
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	~440 Acres	\$ 10,000
Sewage Collection System	L.F.	\$
Lift Stations without sewer lines	Acres	\$
Underground or Aboveground Storage Tank Facility	Tanks	\$
Piping System(s)(only)	Each	\$
Exception	Each	\$
Extension of Time	Each	\$

Signature: 

Date: 7/22/16



# Application Fee Schedule

Texas Commission on Environmental Quality

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

## ***Water Pollution Abatement Plans and Modifications***

### ***Contributing Zone Plans and Modifications***

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

### ***Organized Sewage Collection Systems and Modifications***

<b><i>Project</i></b>	<b><i>Cost per Linear Foot</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

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

<b><i>Project</i></b>	<b><i>Cost per Tank or Piping System</i></b>	<b><i>Minimum Fee- Maximum Fee</i></b>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

### ***Exception Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Exception Request	\$500

### ***Extension of Time Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Extension of Time Request	\$150





TCEQ Use Only

# TCEQ Core Data Form

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

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600522452		RN 109260810

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Colorado Materials, Ltd			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0013459610	17428240844	742824084	
11. Type of Customer:	<input type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input checked="" type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
P.O. Box 2109			
City	San Marcos	State	TX
ZIP	78667	ZIP + 4	2109
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
( 512 ) 353-7757	149	( 512 ) 392-0778	

## SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<b>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)</b>	
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)	
Hunter III	



23. Street Address of the Regulated Entity: (No PO Boxes)	N/A						
	City		State		ZIP		ZIP + 4
24. County	Comal						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	Northwest Corner of the intersection of FM 2439 and FM 1102						
26. Nearest City					State	Nearest ZIP Code	
New Braunfels					TX	78130	
27. Latitude (N) In Decimal:	29.826319			28. Longitude (W) In Decimal:	98.031428		
Degrees	Minutes	Seconds		Degrees	Minutes	Seconds	
29	49	34.75		98	1	53.14	
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)		
1422			212312				
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)							
Construction Materials Manufacturing							
34. Mailing Address:	P.O. Box 2109						
	City	San Marcos	State	TX	ZIP	78667	ZIP + 4 2109
35. E-Mail Address:							
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)			
( 512 ) 353-7757		149		( 512 ) 392-0778			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

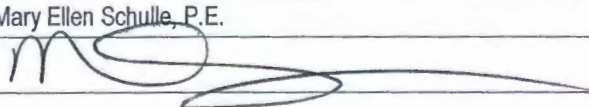
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
		Registering		
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/>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

#### SECTION IV: Preparer Information

40. Name:	John Pleasant, Jr MSPM			41. Title:	Staff Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
( 830 ) 249-8284		( 830 ) 249-0221	jpleasant@westwardenv.com		

#### SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Westward Environmental	Job Title:	Project Engineer
Name(In Print):	Mary Ellen Schulle, P.E.	Phone:	( 830 ) 249-8284
Signature:			Date:
			7/22/2016





TCEQ Use Only

# TCEQ Core Data Form

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## SECTION I: General Information

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2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600522452		RN 109260810

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)	
<input type="checkbox"/> New Customer		<input checked="" type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>			
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Rosa LAW Management L.L.C.			
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
8018434444	32051887324	463640801	
11. Type of Customer:		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	
		<input checked="" type="checkbox"/> Other: limited liability company	
12. Number of Employees		13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
15. Mailing Address:			
P O Box 2109			
City	San Marcos	State	TX
ZIP	78667	ZIP + 4	2109
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)	
18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)	
(512) 353-7757		( )	

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Hunter III	



23. Street Address of the Regulated Entity: (No PO Boxes)	N/A						
	City		State		ZIP		ZIP + 4
24. County	Comal						

Enter Physical Location Description if no street address is provided.

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26. Nearest City	New Braunfels				State	TX	
					Nearest ZIP Code	78130	
27. Latitude (N) In Decimal:	29.826319		28. Longitude (W) In Decimal:	98.031428			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
29	49	34.75	98	1	53.14		
29. Primary SIC Code (4 digits)	1422		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	32. Secondary NAICS Code (5 or 6 digits)
						212312	
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)							
Construction Materials Manufacturing							
34. Mailing Address:	P.O. Box 2109						
	City	San Marcos	State	TX	ZIP	78667	ZIP + 4 2109
35. E-Mail Address:							
36. Telephone Number		37. Extension or Code		38. Fax Number (if applicable)			
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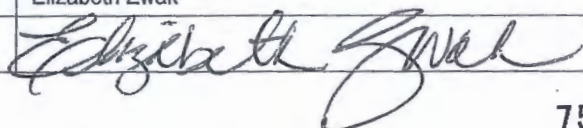
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<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
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<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

#### SECTION IV: Preparer Information

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42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(830) 249-8284		(830) 249-0221	jpleasant@westwardenv.com	

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Company:	Rosa LAW Management, L.L.C.	Job Title:	President
Name(In Print):	Elizabeth Zwak	Phone:	(512) 353-7757
Signature:		Date:	06/01/2016