Cemex Construction Materials South, LLC

Aboveground Storage Tank (AST) Plan Application

Cemex Balcones Quarry

2682 Wald Rd

New Braunfels, Texas 78132

Comal County

Submitted to: TCEQ Region 13, San Antonio

Prepared By:

WESTWARD
Environmental. Engineering. Natural Resources.

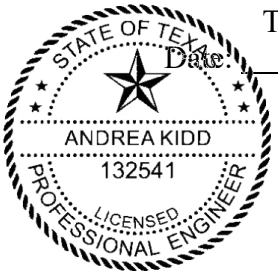
Boerne, Texas
830-249-8284

Date: October 2023
Project No. 10438-012
-AK-

Signature: Andrea Kidd

Andrea Kidd, P.E. - License No. 132541
TX PE Firm No. 4524

Date: 10/27/2023



Aboveground Storage Tank Facility Plan Checklist

- **Edwards Aquifer Application Cover Page (TCEQ-20705)**
- **General Information Form (TCEQ-0587)**

  Attachment A - Road Map
  Attachment B - USGS / Edwards Recharge Zone Map
  Attachment C - Project Description

- **Geologic Assessment Form (TCEQ-0585)**

  Attachment A - Geologic Assessment Table (TCEQ-0585-Table)
  Attachment B - Stratigraphic Column
  Attachment C - Site Geology
  Attachment D - Site Geologic Map(s)

- **Aboveground Storage Tank Facility Plan (TCEQ-0575)**

  Attachment A - Alternative Methods of Secondary Containment (if proposed)
  Attachment B - Scaled Drawing(s) of Containment Structure
  Attachment C - Exception to the Geologic Assessment (if requested)
  Attachment D - Spill and Overfill Control
  Attachment E - Response Actions to Spills
  Site Plan

- **Temporary Stormwater Section (TCEQ-0602)**

  Attachment A - Spill Response Actions
  Attachment B - Potential Sources of Contamination
  Attachment C - Sequence of Major Activities
  Attachment D - Temporary Best Management Practices and Measures
  Attachment E - Request to Temporarily Seal a Feature (if requested)
  Attachment F - Structural Practices
  Attachment G - Drainage Area Map
  Attachment H - Temporary Sediment Pond(s) Plans and Calculations
  Attachment I - Inspection and Maintenance for BMPs
  Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

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

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

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 will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **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:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- 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 denied/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 affected 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.

1. Regulated Entity Name: Cemex Balcones Quarry						**2. Regulated Entity No.: 102437274**			
3. Customer Name: Cemex Construction Materials South, LLC						**4. Customer No.: 603403973**			
5. Project Type: **(Please circle/check one)**	(New)		Modification			Extension		Exception	
6. Plan Type: **(Please circle/check one)**	WPAP	CZP	SCS	UST	(AST)	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: **(Please circle/check one)**	Residential		(Non-residential)			**8. Site (acres):**		Project Area = 13.4 acres	
9. Application Fee:	$6,500		**10. Permanent BMP(s):**			N/A			
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			11			
13. County:	Comal		**14. Watershed:**			Comal River – Guadalupe 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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	____	___
County(ies)	___	___ _	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	____	_X_	___	___	___
Region (1 req.)	____	_X_	___	___	___
County(ies)	____	_X_	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	_X_Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge _X_New Braunfels ___Schertz	NA	___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.

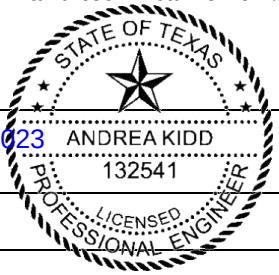
Andrea Kidd, P.E.
TX License No. 132541 | Firm No. 4524

Print Name of Engineer/Authorized Agent

Andrea Kidd

Signature of Engineer/Authorized Agent

Date 10/27/2023



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):	

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.

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 Engineer/Agent: Andrea Kidd, P.E.
TX License No. 132541 | TX Firm No. 4524

Date: _____

Signature of Engineer/Agent:

Andrea Kidd 10/27/2023

STATE OF TEXAS
ANDREA KIDD
132541
LICENSED
PROFESSIONAL ENGINEER

Project Information

1. Regulated Entity Name: Cemex Balcones Quarry
2. County: Comal
3. Stream Basin: Guadalupe River
4. Groundwater Conservation District (If applicable): Comal Trinity GCD and Edwards Aquifer Authority
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☒ Transition Zone
6. Plan Type:

   ☐ WPAP ☐ SCS

☐ Modification
☒ AST
☐ UST
☐ Exception Request

7. Customer (Applicant):

Contact Person: Daniel Escobar
Entity: Cemex Construction Materials South, LLC
Mailing Address: 2682 Wald Rd

City, State: New Braunfels, TX Zip: 78132

Telephone: (830) 608-3553 FAX: _____

Email Address: lancew.griffin@cemex.com

8. Agent/Representative (If any):

Contact Person: Andrea Kidd, P.E.
Entity: Westward Environmental, Inc.
Mailing Address: P.O. Box 2205

City, State: Boerne, TX Zip: 78006

Telephone: (830) 249-8284 FAX: (830) 249-0221

Email Address: akidd@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 New Braunfels.
☐ 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.

2682 Wald Rd, New Braunfels, TX 78132

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: Existing site is clearly defined by fencing.

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: _____

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.

Administrative Information

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

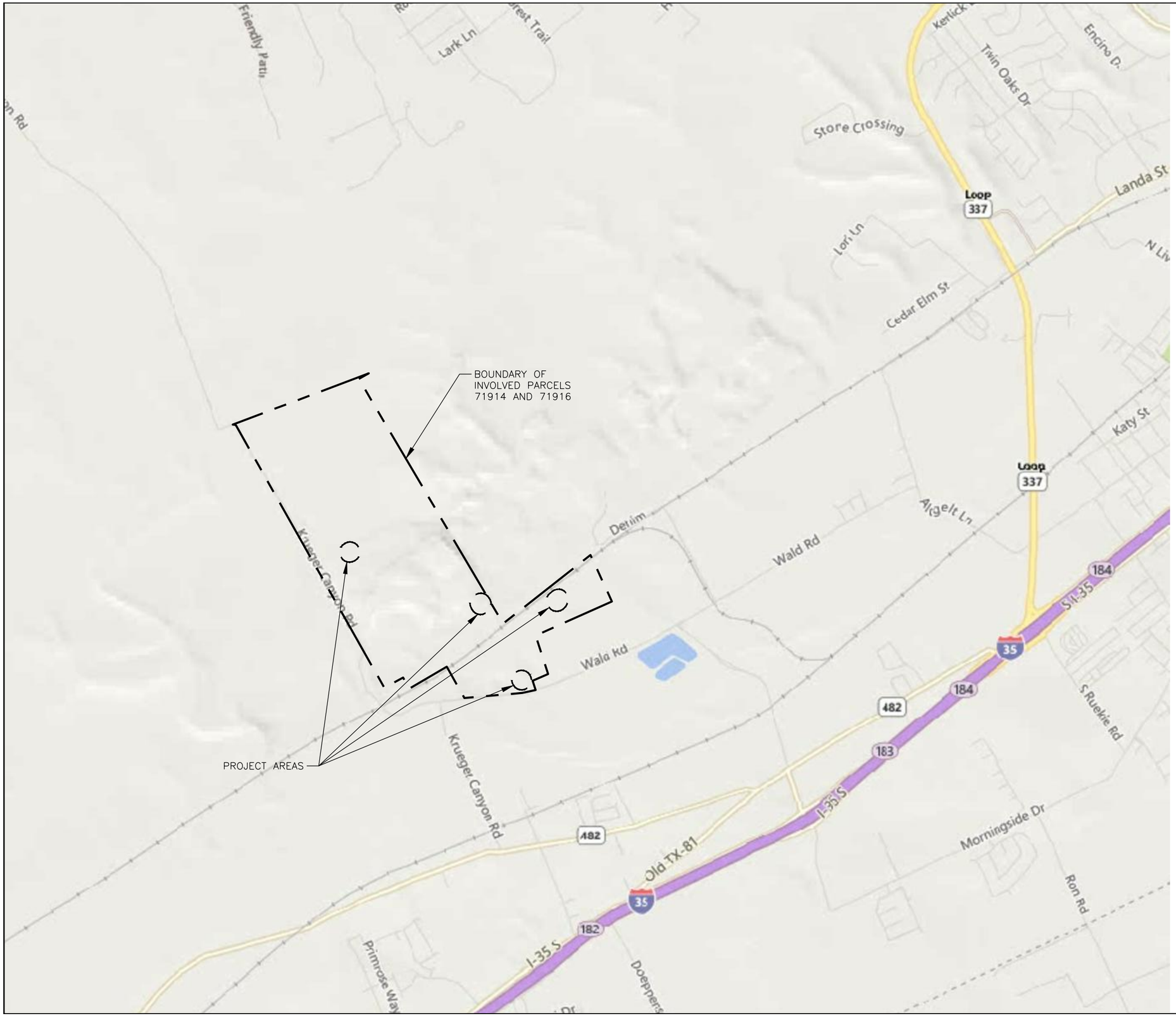
☐ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
☒ For a UST Facility Plan or Modification or an AST Facility 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 **ePay**
☐ 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.



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0 1000 2000 4000

SCALE: 1" = 2000'

BOUNDARY OF INVOLVED PARCELS

PROJECT AREAS

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

ROAD MAP

AST PLAN
CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
CEMEX BALCONES QUARRY – NEW BRAUNFELS, TEXAS

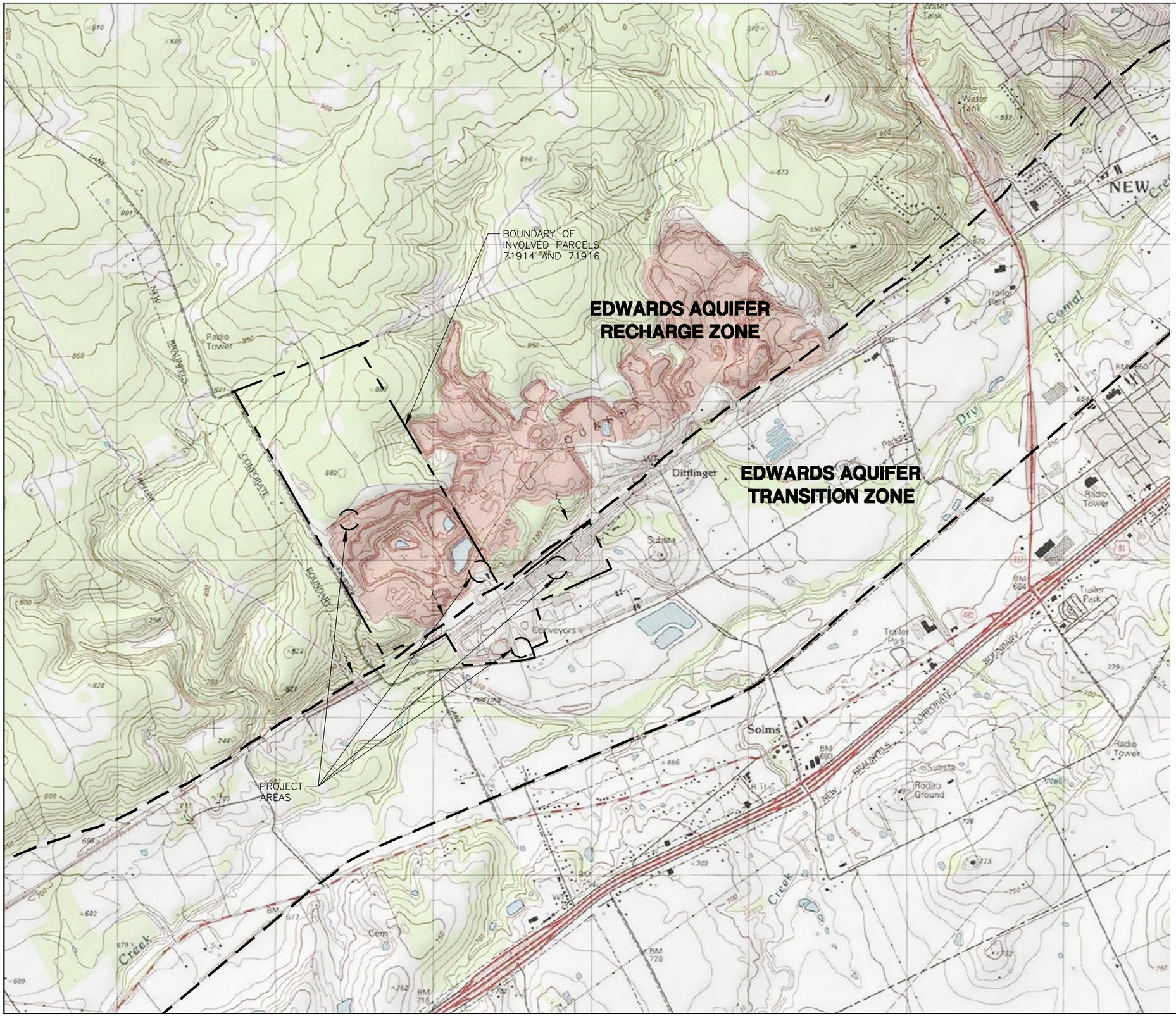
REV.	DESCRIPTION	BY	DATE

IMAGE:	BING MAPS
ISSUE DATE:	10/19/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	2000'
JOB NO.:	10438-012

SHEET NO.:

1

OF 1



N

0 1000 2000 4000

SCALE: 1" = 2000'

- EDWARDS BOUNDARY
- BOUNDARY OF INVOLVED PARCELS
- PROJECT AREAS
- FLOW ARROW

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

USGS MAP

AST PLAN

CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
CEMEX BALCONES QUARRY - NEW BRAUNFELS, TEXAS

REV.	DESCRIPTION	BY	DATE

IMAGE:	USGS
ISSUE DATE:	10/19/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	2000'
JOB NO.:	10438-012

SHEET NO.:

1

OF 1

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

General Information Form (TCEQ-0587)
Attachment C

Project Description

This Aboveground Storage Tank (AST) Plan has been prepared on behalf of Cemex Construction Materials South, LLC for the existing operating quarry located at 2682 Wald Rd, New Braunfels, Comal County, Texas. The quarry operations for this applicant extend over multiple large parcels of land. The AST tanks are located on two parcels; for the discussion within this application, we will focus on Parcel IDs 71914 and 71916 as identified by the Comal County Appraisal District. These two parcels cover approximately 485 acres of property and are located within the Recharge Zone and Transition Zone of the Edwards Aquifer. Within these two parcels, the Project Area for this AST Plan consists of four Boundary Areas delineated based on a 200-foot offset from ASTs or AST containments and total of 13.4 acres. These Boundary Areas are subsets of the larger ~485-acre property (i.e. – the two parcels of interest). The Boundary Areas are described below, identified on the Site Map, and included is a Metes and Bounds for each area.

Fuel Island Boundary Area	3.7 acres
Lube Island Boundary Area	3.5 acres
Used Oil Boundary Area	3.2 acres
Genset Boundary Area	3.0 acres
TOTAL PROJECT AREA	**13.4 acres**

This site has been in operation since 1969 as a large industrial area containing a limestone quarry. Historical aerial imagery shows most of the natural areas have already been disturbed/paved. Operations at this quarry pre-date the requirements for a WPAP for regulated development.

This AST plan includes the following storage tanks:

AST #	Size (gals)	Substance stored	Containment	location
1	12,000	diesel	A	Fuel island
2	10,000	diesel	B	
3	500	empty	A	
4	730	empty	C	
5	550	Motor oil	D	Lube island
6	550	Differential oil	D	
7	550	Transmission fluid	D	
8	1000	Transmission fluid	D	
9	4000	Used oil	E	Used oil building
10	10,000	empty	E	
11	145 (genset tank)	diesel	N/A	Front entrance

ASTs 1-10 are single-walled tanks within containment structures that are properly constructed and properly sized to hold at least 150% of the volume of the tanks within, including associated piping, dispensers, and hoses. AST 11 is a double-walled tank (integral genset diesel tank) and has no associated piping.

The drainage patterns of the site will not change, and no soil stabilization measures are necessary. Several of the attachments relating to stormwater BMPs (Temporary Stormwater Section Attachments C, D, E, F, G, H, I, and J) are not applicable to this project. There will be no grading activities resulting from this plan that will disturb soils, therefore temporary stormwater BMPs are not necessary. No areas are proposed to be demolished or disturbed.

A geologic assessment (GA), dated August 18, 2023, is included in this report. There are four Assessment Areas within the GA which are consistent with the four Boundary Areas of the AST Project Area for a total of 13.4 acres. There were five geologic features identified, none of which are classified as a sensitive feature. There are two wells within the Assessment Areas; each well is greater than 150 feet from an AST or AST Containment. There is third well noted on the Site Map that is outside the limits of the GA Assessment Areas.

Metes and Bounds for **Fuel Island Boundary Area** for Cemex AST Plan

THENCE (1) South 37°10'52" East, 28.04 feet to the beginning of a curve concave northerly, said curve has a radius of 200.00 feet;

THENCE (2) easterly along said curve through a central angle of 90°10'20" an arc distance of 314.76 feet to a point of tangency;

THENCE (3) North 52°38'48" East, 29.74 feet to the beginning of a curve concave northwesterly, said curve has a radius of 200.00 feet;

THENCE (4) northeasterly along said curve through a central angle of 29°41'27" an arc distance of 103.64 feet to a point of tangency;

THENCE (5) North 22°57'22" East, 42.35 feet to the beginning of a curve concave westerly, said curve has a radius of 200.00 feet;

THENCE (6) northerly along said curve through a central angle of 61°53'26" an arc distance of 216.04 feet to a point of tangency;

THENCE (7) North 38°56'04" West, 6.61 feet to the beginning of a curve concave southerly, said curve has a radius of 200.00 feet;

THENCE (8) westerly along said curve through a central angle of 88°01'38" an arc distance of 307.27 feet to a point of tangency;

THENCE (9) South 53°02'18" West, 66.26 feet to the beginning of a curve concave easterly, said curve has a radius of 200.00 feet;

THENCE (10) southerly along said curve through a central angle of 90°13'10" an arc distance of 314.92 feet;

Containing 161,725.95 square feet (3.7 acres).

Metes and Bounds for **Lube Island Boundary Area** for Cemex AST Plan:

THENCE (1) North 60°12'20" East, 28.22 feet to the beginning of a curve concave southerly, said curve has a radius of 200.00 feet;

THENCE (2) easterly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (3) South 29°47'40" East, 37.20 feet to the beginning of a curve concave westerly, said curve has a radius of 200.00 feet;

THENCE (4) southerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (5) South 60°12'20" West, 28.22 feet to the beginning of a curve concave northerly, said curve has a radius of 200.00 feet;

THENCE (6) westerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (7) North 29°47'40" West, 37.20 feet to the beginning of a curve concave easterly, said curve has a radius of 200.00 feet;

THENCE (8) northerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet;

Containing 152,879.98 square feet (3.5 acres).

Metes and Bounds for **Used Oil Boundary Area** for Cemex AST Plan

THENCE (1) South 29°16'46" East, 13.27 feet to the beginning of a curve concave northerly, said curve has a radius of 200.00 feet;

THENCE (2) easterly along said curve through a central angle of 89°53'17" an arc distance of 313.77 feet to a point of tangency;

THENCE (3) North 60°49'57" East, 20.68 feet to the beginning of a curve concave westerly, said curve has a radius of 200.00 feet;

THENCE (4) northerly along said curve through a central angle of 90°06'43" an arc distance of 314.55 feet to a point of tangency;

THENCE (5) North 29°16'46" West, 13.27 feet to the beginning of a curve concave southerly, said curve has a radius of 200.00 feet;

THENCE (6) westerly along said curve through a central angle of 89°53'17" an arc distance of 313.77 feet to a point of tangency;

THENCE (7) South 60°49'57" West, 20.68 feet to the beginning of a curve concave easterly, said curve has a radius of 200.00 feet;

THENCE (8) southerly along said curve through a central angle of 90°06'43" an arc distance of 314.55 feet;

Containing 139,519.18 square feet (3.2 acres).

Metes and Bounds for **Genset Boundary Area** for Cemex AST Plan

THENCE (1) North 56°02'06" East, 4.27 feet to the beginning of a curve concave southerly, said curve has a radius of 200.00 feet;

THENCE (2) easterly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (3) South 33°57'54" East, 7.07 feet to the beginning of a curve concave westerly, said curve has a radius of 200.00 feet;

THENCE (4) southerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (5) South 56°02'06" West, 4.27 feet to the beginning of a curve concave northerly, said curve has a radius of 200.00 feet;

THENCE (6) westerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet to a point of tangency;

THENCE (7) North 33°57'54" West, 7.07 feet to the beginning of a curve concave easterly, said curve has a radius of 200.00 feet;

THENCE (8) northerly along said curve through a central angle of 90°00'00" an arc distance of 314.16 feet;

Containing 130,230.65 square feet (3.0 acres).

Cemex Construction Materials South, LLC

GEOLOGIC ASSESSMENT

CEMEX BALCONES QUARRY
2682 WALD ROAD
NEW BRAUNFELS, TEXAS 78132
COMAL COUNTY

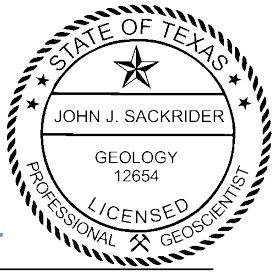
Submitted to: TCEQ Region 13, San Antonio

Prepared By:

WESTWARD
Environmental. Engineering. Natural Resources.

Boerne, Texas
830-249-8284

Date: August 2023
Project No. 10438.012
-JJS-



Signature: _____

John J. Sackrider, P.G. - License No. 12654
TX PG Firm No. 50112
Date: 8/18/2023

Article I. 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.

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

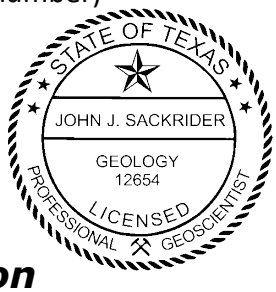
Print Name of Geologist: Telephone: 830-249-8284

John J. Sackrider, P.G. #12654 Fax: 830-249-0221

Date: 8/18/2023

Representing: Westward Environmental, Inc., TBPG Registered Geoscience Firm 50012
(Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Cemex Balcones Quarry

Section 1.02 Project Information

1. Date(s) Geologic Assessment was performed: August 4, 2023
2. Type of Project:

   ☐ WPAP ☒ AST
   ☐ SCS ☐ 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.

Article II. Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)
ByB	D	> 6
HgD	D	< 5.5
Pt	D	n/a
RUD	D	< 3.5

** 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" = 400'
   Site Geologic Map Scale: 1" = 400'
   Site Soils Map Scale (if more than 1 soil type): 1" = 400'

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.

Section 2.01 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 (Form TCEQ-0585)

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Cemex Balcones Quarry

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)	DOM	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	29.678257	-98.199855	MB-W	30	Kprd	0.41		280	N/A					5	35	X		X		Hillside
S-2	29.675598	-98.190616	MB-W	30	Kprd	0.41		Unknown	N/A					5	35	X		X		Hillside
S-3	29.670925	-98.188658	CD	5	Qle/Qt	130	75	5	6					5	10	X			X	Drainage
S-4	29.671556	-98.188252	CD	5	Qle/Qt	195	50	4	130					5	10	X			X	Drainage
S-5	29.676130	-98.191378	MB	30	Kprd	4,500	2,000	185	N/A					5	35	X			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

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

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

Date 8/18/2023

STATE OF TEXAS
JOHN J. SACKRIDER
GEOLOGY
12654
LICENSED PROFESSIONAL GEOSCIENTIST

Attachment B

Stratigraphic Column

Generalized Stratigraphic Column – Comal County, Texas

Hydrogeologic subdivision			Group formation or member			Hydrologic Function	Thickness (feet)	Lithology	Cavern development	Porosity / permeability type
Quaternary			Alluvium			AQ	0-30	Siltstone to sandstone	None	High porosity/high permeability
			Fluviatile terrace deposits			AQ where saturated	0-45	Coarse gravel, sand, and sitl	None	High porosity/high permeability
			Leona Formation			--	--	Clacareous silt grading down to coarse gravel	None	High porosity/high permeability
Upper Cretaceous	Upper confining units		Navarro and Taylor Groups, undivided			CU	600	Clay, chalky limestone	None	Low porosity / low permeability
			Austin Group			CU; rarely AQ	130-150	White to gray limestone	None	Low porosity; rare water production form fractures / low permeability
			Eagle Ford Group			CU	30-50	Brown, flaggy shale and agrillaceous limesone	None	Primary porosity lost / low permeability
			Buda Limestone			CU	40-50	Buff, light gray, dense mudstone	Minor surface karst	Low porosity / low permeability
			Del Rio Clay			CU	40-50	Blue-green to yellow-brown clay	None	Low porosity / low permeability
Lower Cretaceous	I	Edwards Aquifer	Georgetown Formation			Karst AQ; not karst CU		Reddish-brown, gray to light tan marly limestone	None	Low porosity / low permeability
	II		Edwards Group	Person Fm	Cyclic & marine members undivided	AQ	89-90	Mudstone to packstone; miliolid grainstone; chert	Many sub-surface	Laterally extensive; water yielding
	III				Leached & collapsed members	AQ	70-90	Crystalline limestone; mudstone to grainstone; chert collapsed breccia	Extensive lateral development; large rooms	Majority not fabric / one of the most permeable
	IV				Regional dense members	CU	20-24	Dense, argillaceous mudstone	Very few; only vertical fracture enlargement	Not fabric / low permeability; vertical barrier
	V			Kainer Fm	Grainstone member	AQ	50-60	Miliolid grainstone; mudstone to wackestone; chert	Few	Not fabric / recrystallization reduces permeability
	VI				Kirschberg evaporite member	AQ	50-60	Highly altered crystalline limestone; chalky mudstone; chert	Probably extensive cave development	Majority fabric / one of the most permeable
	VII				Dolomitic member	AQ	110-130	Mudstone to grainstone; crystalline limestone; chert	Caves related to structure or bedding planes	Mostly not fabric; some bedding plane fabric / water-yielding
	VIII				Basal nodular member	Karst AQ; not karst CU	50-60	Shaly, nodular limestone; mudstone and miliolid grainstone	Large lateral caves at surface	Fabric; stratigraphically controlled/ large conduit flow at surface; no permeability in subsurface
	Lower confining unit		Upper member of the Glen Rose Limestone			CU; evaporite beds AQ	350-1150	Yellowish tan, thinly bedded limestone and marl. Thick massive limestone baed at base.	Some surface cave development.	Some water production at evaporite beds / relatively impermeable
			Lower Member of the Glen Rose Limestone							

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

Indicates surface unit mapped onsite. Note: CU = confining unit; AQ = Aquifer

Attachment C

Site Geology (Geologic Narrative)

Geologic Narrative

1.0 PURPOSE

Westward Environmental, Inc. (WESTWARD) was retained by Cemex Construction Materials South, LLC (Client) to prepare a Geologic Assessment (GA) on four areas centered on either an aboveground storage tank (AST) or AST containment. These four Assessment Areas were delineated based on a 200-foot offset from ASTs or AST containments and total ~13.4 acres. These Assessment Areas are subsets of the larger ~485-acre property (Site). This GA was prepared as a required attachment to an AST Plan for the Site as required by the Texas Commission of Environmental Quality (TCEQ).

2.0 REGULATORY GUIDANCE

Title 30, Chapter 213 of the Texas Administrative Code

This report was prepared in accordance with *Instructions for Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zones (TCEQ-0585 (Rev. 10-01-04))* and will be reviewed pursuant to Title 30, Chapter 213 of the Texas Administrative Code.

3.0 PROJECT LOCATION

The Site is located within the Extra Territorial Jurisdiction of the city of New Braunfels, Texas. The address is 2682 Wald Road, New Braunfels, Texas 78132. The Site is located over the Edwards Aquifer Transition Zone (EATZ) and the Edwards Aquifer Recharge Zone (EARZ).

4.0 METHODOLOGY

As part of the GA, WESTWARD performed a desktop review of selected published information. WESTWARD also conducted a field investigation in accordance with *TCEQ-0585 (Rev. 10-01-04)*.

4.1 Desktop Review

WESTWARD conducted a review of aerial imagery, the University of Texas Bureau of Economic Geology (BEG) Geologic Atlas of Texas (GAT) San Antonio Sheet, the Digital Geologic Database of Texas, applicable U.S. Geological Survey (USGS) Topographic quadrangle(s) and geospatial dataset(s), the Texas Natural Resources Information System (TNRIS), the Texas Water Development Board's (TWDB) Water Data Interactive Groundwater Data Viewer (WDIGDV), the Railroad Commission of Texas (RRC), and the U.S. Department of Agriculture (USDA) National Resource Conservation Service (NRCS) Web Soil Survey prior to the field investigation.

4.2 Field Investigation

A field investigation was performed in the Assessment Areas by John J. Sackrider, P.G. (TBPG Lic. No. 12654) on August 4th, 2023. Field transects of the Assessment Area were walked in accordance with TCEQ-0585 (Rev. 10-01-04).

5.0 DESKTOP REVIEW

The desktop review was utilized for preliminary planning of the field investigation. The accuracy of the desktop review was limited by the accessibility, scale, and age of the data available.

5.1 Published Surface Geology

A review of published geologic and hydrostratigraphic maps revealed the Lower Cretaceous-aged Regional Dense Member (Kprd) of the Edwards Group Person Formation, the Quaternary-aged Leona Formation (Kle), and Fluviatile Terrace Deposits (Qt) mapped at the surface of the Site. A Site Geologic Map is included in Attachment D.

5.2 Published Structure

The Site is located within the Balcones Fault Zone (BFZ). The primary Balcones Fault dividing the Recharge Zone from the Transition Zone runs through the Site, however published faults were not observed in the Assessment Areas. The approximate trend of the Balcones Fault in this area is 55°. For the purposes of this GA the dominant trend zone range is approximated to be between 30° and 70°.

5.3 Karst Features

The desktop review did not reveal karst features within the Assessment Areas.

5.4 Non-karst & Manmade Features

A review of the TWDB WDIGDV revealed three (3) wells within the Assessment Areas, one of which was listed as plugged. These are summarized below.

- State Well No.: 6823510
- Well Report Tracking No.: 457528
- Plugging Report Tracking No.: 197111
    - Note that this plugged well is considered properly abandoned and therefore is not a feature.

Additionally, the Site is an active quarry with activity dating back to the 1970s. Much of the Site would be considered a Manmade Feature in Bedrock. From a review of aerial imagery there are what appear to be two (2) stormwater ponds which would be classified as non-karst closed depressions.

5.5 Soils

Four (4) soil units were identified in the Assessment Areas through the NRCS Web Soil Survey. They are detailed below as well as included on the Geologic Assessment Form TCEQ-0585 (Rev. 02-11-15). A Site Soils Map is included in Attachment D. Site conditions were mostly disturbed, with exposed bedrock from quarry activities or compacted base. Based on the mapped extents, the Rumple-Comfort rubbly association is likely not present in the Assessment Areas.

Published Soil Unit Descriptions			
Soil Name	*Group*	*Thickness (Feet)*	*Description*
Branyon clay (ByB), 1 to 3 percent slopes	D	> 6	More than 80 inches to restrictive feature, moderately well drained, very low to moderately low (0.00 to 0.06 in/hr) Ksat capacity
Heiden gravely clay (HgD), 3 to 8 percent slopes	D	< 5.5	Up to 65 inches to densic material, well drained, very low to moderately low (0.00 to 0.06 in/hr) Ksat capacity
Pits (Pt)	D	n/a	Quarry Pits
Rumple-Comfort rubbly association (RUD), 1 to 8 percent slopes	D	< 3.5	Up to 40 inches to lithic bedrock, well drained, moderately low to moderately high (0.06 to 0.20 in/hr) Ksat capacity

6.0 FIELD INVESTIGATION

The field investigation was performed on August 4th, 2023 by John J. Sackrider, P.G. to verify the presence or absence of potential recharge features identified in the desktop review and to identify potential recharge features not found during the desktop review. Field reconnaissance was performed in accordance with the *TCEQ-0585-Instructions (Rev. 10-1-04)*.

6.1 Surface Geology

The Assessment Areas in the EARZ were disturbed characterized by either compacted base material or exposed bedrock. Observations of the exposed bedrock were consistent with the Edwards Limestone. Assessment Areas in the EATZ were similarly disturbed with either compacted base material or pavement. The undisturbed areas were well vegetated and absent of bedrock outcrops. Surface geologic units in these areas were not confirmed.

6.2 Structure

Evidence of faulting was not observed in the Assessment Areas.

6.3 Karst Features

Karst Features were not observed in the Assessment Areas.

6.4 Non-karst & Manmade Features

Two wells were observed during the field investigation. The location of well #457528 was confirmed and assigned feature designation S-1. Well #6823510 was not observed in any of the Assessment Areas. Based on the well depth it does not appear to be the plugged well (#197111) identified in the desktop review. Evidence of the plugged well was not observed. One additional well was identified during the field investigation and assigned feature designation S-2. This well is either not in the TWDB database or has an error in its

submitted location. The presence of the two non-karst closed depressions identified in the desktop review were confirmed.

6.5 Feature Descriptions

S-1 (MB-Well) **Not Sensitive**

Feature S-1 is a functional water well in the northernmost Assessment Area. This well was identified in the desktop review as Well Report Tracking No.: 457528. Based on the well report, included in Attachment E, the well was completed to a depth of 280 feet and set with both a 10 inch and 5 inche steel casing. The well is currently in use and based solely on visual observations at the surface, appears to comply with 16 TAC Chapter 76. The drainage area to this feature is small (less than 1.6 acres). Evidence of damage to the well or surrounding concrete pad was not observed. This feature is not considered to be sensitive.

S-2 (MB-Well) **Not Sensitive**

Feature S-2 is a functional water well in the Assessment Area just north of the EARZ boundary. This well was either not included in the TWDB database or has an error in its submitted location. The well was completed with a ~5 inch steel casing that extends ~4.5 inches above the ground. The total depth of the well is unknown. The well is currently in use and based solely on visual observations at the surface, appears to comply with 16 TAC Chapter 76. The drainage area to this feature is small (less than 1.6 acres). Evidence of damage to the well or surrounding concrete pad was not observed. This feature is not considered to be sensitive.

S-3 (CD) **Not Sensitive**

Feature S-3 is a non-karst closed depression located in the southernmost Assessment Area. The feature is a stormwater pond with approximate dimensions of 130 ft. x 75 ft. x 5 ft. with a trend of 6°. The drainage area to the feature is greater than 1.6 acres. The feature was holding water at the time of observation and is not considered to be sensitive.

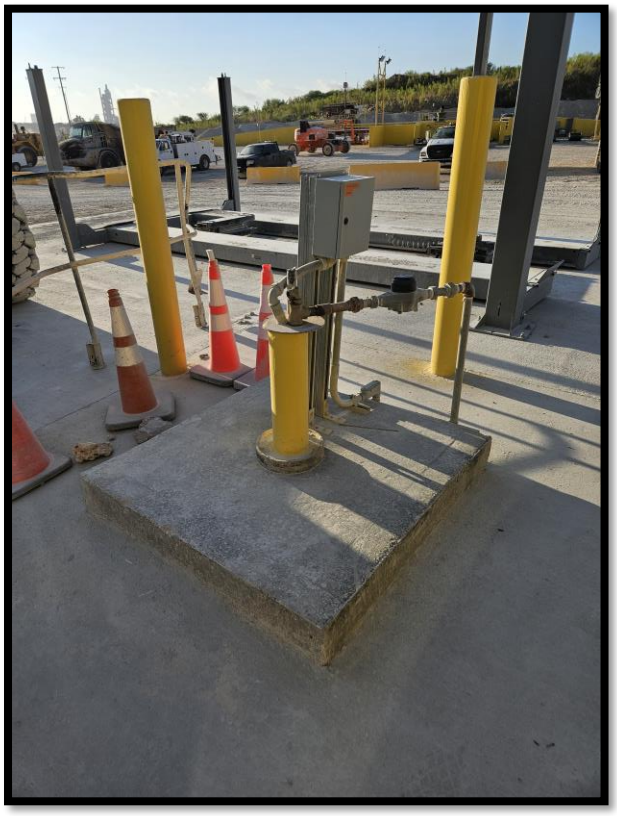
S-4 (CD) **Not Sensitive**

Feature S-4 is a non-karst closed depression located in the southernmost Assessment Area. The feature is a stormwater pond with approximate dimensions of 195 ft. x 50 ft. x 4 ft. with a trend of 130°. The drainage area to the feature is greater than 1.6 acres. The feature was holding water at the time of observation and is not considered to be sensitive.

S-5 (CD) **Not Sensitive**

Feature S-5 represents the quarry that encompasses these Assessment Areas. Quarrying activity at the Site dates back to the 1970s. The dimensions of historic quarry activity are more than 4,500 ft. x 2,000 ft. x 185 ft. A rock quarry qualifies as a manmade feature in bedrock. The drainage area is greater than 1.6 acres. This feature is not considered to be sensitive.

SELECT PHOTOGRAPHS



S-1: Water well view from the north.

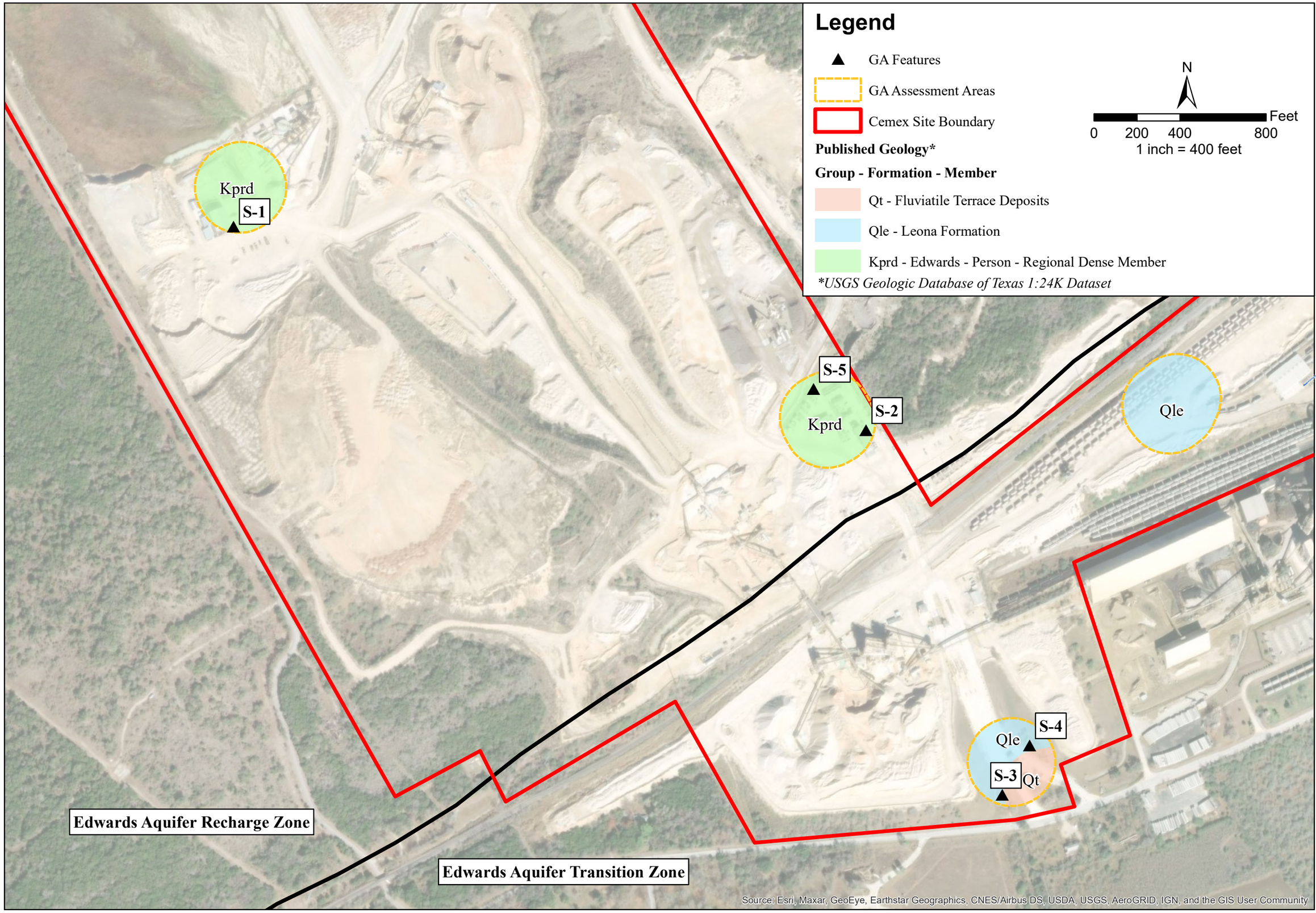
S-2: Water well view from the east.

S-3: Stormwater pond view from the north.

S-4: Stormwater pond view from above.

Attachment D

Site Geologic Map
Site Soils Map



Legend

- GA Features
- GA Assessment Areas
- Cemex Site Boundary

Published Geology*

Group - Formation - Member

- Qt - Fluviatile Terrace Deposits
- Qle - Leona Formation
- Kprd - Edwards - Person - Regional Dense Member

**USGS Geologic Database of Texas 1:24K Dataset*

N

0 200 400 800 Feet

1 inch = 400 feet

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

STATE OF TEXAS
JOHN J. SACKRIDER
GEOLOGY
12654
LICENSED
PROFESSIONAL GEOSCIENTIST

8/18/2023

SITE GEOLOGIC MAP

CEMEX BALCONES QUARRY
CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
2682 WALD ROAD, NEW BRAUNFELS, TX 78132

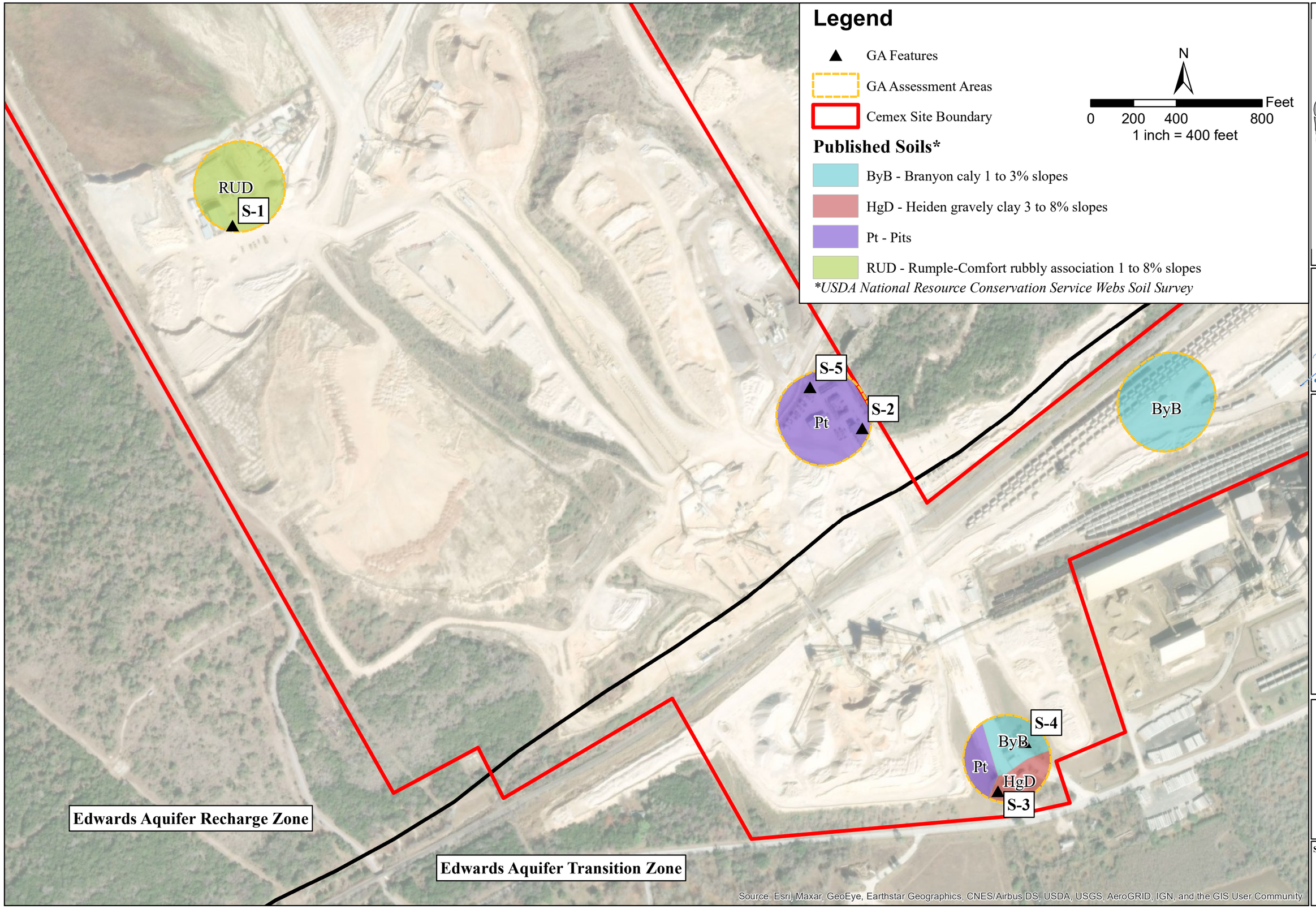
REV.	DESCRIPTION	BY	DATE

IMAGE:	IMAGERY SOURCE
ISSUE DATE:	08/16/2023
DRAWN BY:	JJS
CHECKED BY:	JG
SCALE: 1" =	400'
JOB NO.:	10438.012

SHEET NO.:

01

OF 02



Legend

- GA Features
- GA Assessment Areas
- Cemex Site Boundary

N

0 200 400 800 Feet

1 inch = 400 feet

Published Soils*

- ByB - Branyon caly 1 to 3% slopes
- HgD - Heiden gravely clay 3 to 8% slopes
- Pt - Pits
- RUD - Rumple-Comfort rubbly association 1 to 8% slopes

**USDA National Resource Conservation Service Webs Soil Survey*

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

STATE OF TEXAS
JOHN J. SACKRIDER
GEOLOGY
12654
LICENSED
PROFESSIONAL GEOSCIENTIST

8/18/2023

SITE SOILS MAP

CEMEX BALCONES QUARRY
CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
2682 WALD ROAD, NEW BRAUNFELS, TX 78132

REV.	DESCRIPTION	BY	DATE

IMAGE:	IMAGERY SOURCE
ISSUE DATE:	08/16/2023
DRAWN BY:	JJS
CHECKED BY:	JG
SCALE: 1" =	400'
JOB NO.:	10438.012

SHEET NO.:

02

OF 02

Attachment E

Well Reports

STATE OF TEXAS WELL REPORT for Tracking #457528

Owner:	**Cemex Construction Materials**	Owner Well #:	**Mobil Shop**
Address:	**2682 Wald Road New Braunfels, TX 78132**	Grid #:	**68-23-5**
Well Location:	**1758 Krueger Canyon New Braunfels, TX 78132**	Latitude:	**29° 40' 42" N**
		Longitude:	**098° 11' 59" W**
Well County:	**Comal**	Elevation:	**764 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/14/2017** Drilling End Date: **7/21/2017**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
20	**0**	**55**
9.87	**55**	**280**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**53.4**	**Cement 4 Yards**
0	**147**	**Cement 46 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **+400 ft**

Distance to Septic Field or other concentrated contamination (ft.): **+50 ft**

Distance to Septic Tank (ft.): **+50 Ft**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **123 ft.** below land surface on **2017-07-31** Measurement Method: **Electric Line**

Packers: **Rubber at 116 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **144**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
0	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **C&C Groundwater Services LLC**

29143 Old Fredericksburg Rd
Boerne, TX 78015

Driller Name: **Richard Kyle Courtney** License Number: **2546**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	50	Caliche
50	280	Light Tan Limestone

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
10		New Steel	40	0	53.5
5		New Steel	40	0	147

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS PLUGGING REPORT for Tracking #197111

Owner:	**Cemex Construction Materials South, LLC.**	Owner Well #:	**No Data**
Address:	**2682 Wald Rd. New Braunfels, TX 78132**	Grid #:	**68-23-5**
Well Location:	**2682 Wald Rd. New Braunfels, TX 78132**	Latitude:	**29° 40' 15.24" N**
Well County:	**Comal**	Longitude:	**098° 11' 15.65" W**
		Elevation:	**No Data**

Well Type: **Unknown**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **No Data** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**4**	**0**	**60**

Plugging Information

Date Plugged: **3/25/2020** Plugger: **Kyle Courtney**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
4	**3**	**60**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**60**	**Cement 20 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **C&C Groundwater Services LLC**

29143 Old Fredericksburg Rd
Boerne, TX 78015

Driller Name: **Kyle Courtney** License Number: **2546**

Comments: **No Data**

Report Amended on 3/27/2020 by Request #18425

Aboveground Storage Tank Facility Plan Application

Texas Commission on Environmental Quality

For Permanent Storage on The Edwards Aquifer Recharge and Transition Zones And Relating to 30 TAC §213.5(e), 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

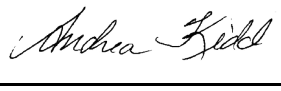
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Aboveground Storage Tank Facility Plan Application** is hereby submitted for TCEQ review and Executive Director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

Print Name of Engineer/Agent: Andrea Kidd, P.E.

TX License No. 132541 | TX Firm No. 4524

Date: 10/27/2023

Signature of Engineer/Agent :



Regulated Entity Name: Cemex Balcones Quarry

Aboveground Storage Tank (AST) Facility Information

1. Tanks and substance stored:

Table 1 - Tank and Substance Storage

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1	12,000	Diesel	Single-walled steel
2	10,000	Diesel	Single-walled steel
3	500	empty	Single-walled steel
4	730	empty	Single-walled steel
5	550	Motor oil	Single-walled steel

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
6	550	Differential oil	Single-walled steel
7	550	Transmission fluid	Single-walled steel
8	1000	Transmission fluid	Single-walled steel
9	4000	Used oil	Single-walled steel
10	10,000	empty	Single-walled steel
11	145	Diesel	Double-walled steel

Total x 1.5 = 60,037.5 **Gallons**

2. ☒ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

   ☒ **Attachment A - Alternative Methods of Secondary Containment**. Alternative methods for providing secondary containment are proposed. Specifications that show equivalent protection for the Edwards Aquifer are attached. **Discussion provided for hoses, nozzles, and genset tank.**

3. Inside dimensions and capacity of containment structure(s): **See containment drawing for irregular containment dimensions.**

Table 2 – Individual Secondary Containments

Length (L) (Ft.)	*Width (W) (Ft.)*	*Height (H) (Ft.)*	*L x W x H = (Ft3)*	*Gallons*	*AST Number*	*Containment ID*
35	irregular	3.67	2,512	18,790	1, 3	A
34.2	15	3.42	1,754	13,123	2	B
9.08	7	3.67	233	1,743	4	C
32	irregular	0.92	1,168	8,740	5-8	D
45	18	4.0	3,240	24,235	9-10	E

Site Containment Capacity Total: 66,631 **Gallons**

4. ☒ All piping, hoses, and dispensers will be located inside the containment structure.

   ☐ Some of the piping to dispensers or equipment will extend outside the containment structure.

   ☐ The piping will be aboveground

   ☐ The piping will be underground

5. ☒ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of concrete.

6. ☒ **Attachment B - Scaled Drawing(s) of Containment Structure**. A scaled drawing of the containment structure that shows the following is attached:

   ☒ Interior dimensions (length, width, depth and wall and floor thickness).
   ☒ Internal drainage to a point convenient for the collection of any spillage.
   ☒ Tanks clearly labeled.
   ☒ Piping clearly labeled.
   ☒ Dispenser clearly labeled.

Site Plan Requirements

Items 7 - 18 must be included on the Site Plan.

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

   Site Plan Scale: 1" = 400'.

8. 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 Panel # 48187C0090F eff. 11/2/2007, FIRM Panel # 48091C0440F eff. 9/2/2009, FIRM Panel # 48187C0095F eff. 11/2/2007, and FIRM Panel # 48091C0445F eff. 9/2/2009.

9. ☐ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Show lots, recreation centers, buildings, roads, etc.

   ☒ The layout of the development is shown with existing contours. Finished topographic contours will not differ from the existing topographic configuration and are not shown.

10. 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.

11. 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 C - Exception to the Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

12. ☐ The drainage patterns and approximate slopes anticipated after major grading activities. **N/A – No grading activities**

13. ☐ Areas of soil disturbance and areas which will not be disturbed. **N/A - None**

14. ☐ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices. **N/A - None**

15. ☐ Locations where soil stabilization practices are expected to occur. **N/A**

16. ☐ Surface waters (including wetlands).

☒ N/A

17. ☐ Locations where stormwater discharges to surface water or sensitive features.

☒ There will be no discharges to surface water or sensitive features.

18. ☒ Legal boundaries of the site are shown.

Best Management Practices

19. ☒ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

- ☒ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
- ☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

20. ☒ All stormwater accumulating inside the containment structure will be disposed of through an authorized waste disposal contractor.

- ☒ Containment areas will be covered by a roof.
- ☐ Containment area will not be covered by a roof.

☐ A description of the alternate method of stormwater disposal is submitted for the executive director's review and approval and is attached.

21. ☒ **Attachment D - Spill and Overfill Control**. A site-specific description of the methods to be used at the facility for spill and overfill control is attached.

22. ☒ **Attachment E - Response Actions to Spills**. A site-specific description of the planned response actions to spills that will take place at the facility is attached.

Administrative Information

23. A Water Pollution Abatement Plan (WPAP) is required for construction of any associated commercial, industrial or residential project located on the Recharge Zone.

N/A – Site operating since 1969 and pre-dates WPAP requirements.

- ☐ The WPAP application for this project was approved by letter dated _____. A copy of the approval letter is attached at the end of this application.
- ☐ The WPAP application for this project was submitted to the TCEQ on _____, but has not been approved.
- ☐ A WPAP application is required for an associated project, but it has not been submitted.
- ☐ There will be no building or structure associated with this project. In the event a building or structure is needed in the future, the required WPAP will be submitted to the TCEQ.
- ☐ The proposed AST is located on the Transition Zone and a WPAP is not required. Information requested in 30 TAC 213.5 subsection (b) (4)(B) and (C) and (5) is provided with this application. (Forms TCEQ-0600 Permanent Stormwater Section and TCEQ-0602 Temporary Stormwater Section or Stormwater Pollution Prevention Plan/SW3P).

24. ☒ This facility is subject to the requirements for the reporting and cleanup of surface spills and overfills pursuant to 30 TAC 334 Subchapter D relating to Release Reporting and Corrective Action.

25. ☒ 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.

26. ☒ Any modification of this AST Facility Plan application will require executive director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

N

0 200 400 800

SCALE: 1" = 400'

LEGEND

- EDWARDS BOUNDARY
- BOUNDARY OF INVOLVED PARCELS
- EXTENTS OF PROJECT AREAS
- WATER WELL
- FLOW ARROW

NOTES:

1. CEMEX QUARRY OPERATIONS EXTEND OVER A LARGE AMOUNT OF LAND; FOR THE PURPOSES OF THIS AST PLAN PARCELS 71914 AND 71916 ARE THE FOCUS.
2. AST LOCATIONS ARE >150 FEET FROM ON SITE WATER WELLS.
3. GA MAPS SHOW THE EXTENTS OF THE LIMITED GA, WHICH IS APPROXIMATELY 200 FEET AROUND EACH AST AREA.

IMAGE: BING MAPS	
ISSUE DATE:	10/19/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	400'
JOB NO.:	10483-012

SHEET NO.:

1

OF 4

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

REV.	BY	DATE

STATE OF TEXAS
ANDREA KIDD
132541
LICENSED PROFESSIONAL ENGINEER

10/27/2023

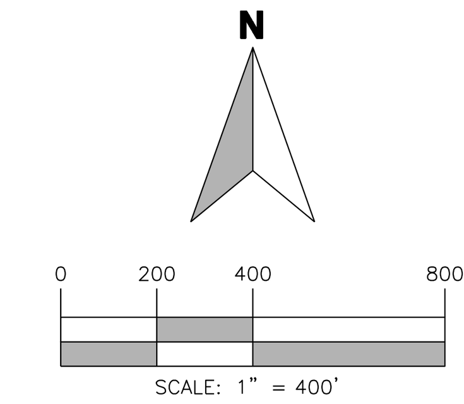
Andrea Kidd, P.E.
License No. 132541

SITE PLAN

AST PLAN

CEMEX CONSTRUCTION MATERIALS SOUTH, LLC

BALCONES QUARRY – NEW BRAUNFELS, TX



LEGEND

- EDWARDS BOUNDARY
- BOUNDARY OF INVOLVED PARCELS
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NOTES:
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IMAGE:	
ISSUE DATE:	10/19/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	400'
JOB NO.:	10483-012

SHEET NO.: **2** OF 4

WESTWARD
Environmental. Engineering. Natural Resources.
P.O. Box 2205 Boerne, Texas 78006
(830) 249-8284 Fax: (830) 249-0221
TBPE REG. NO.: F-4524
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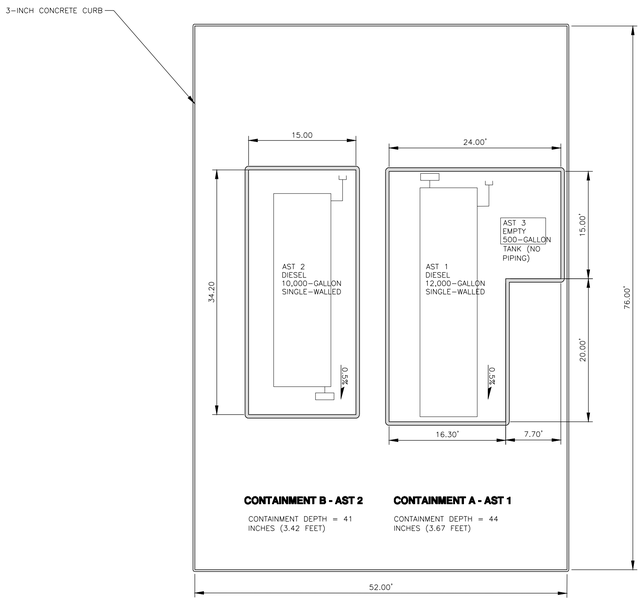
REV.	BY	DATE

STATE OF TEXAS
ANDREA KIDD
132541
LICENSED PROFESSIONAL ENGINEER
10/27/2023
Andrea Kidd, P.E.
License No. 132541

EXISTING CONTOURS

AST PLAN

CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
BALCONES QUARRY – NEW BRAUNFELS, TX



CONTAINMENT B - AST 2

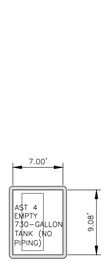
CONTAINMENT DEPTH = 41 INCHES (3.42 FEET)

CONTAINMENT A - AST 1

CONTAINMENT DEPTH = 44 INCHES (3.67 FEET)

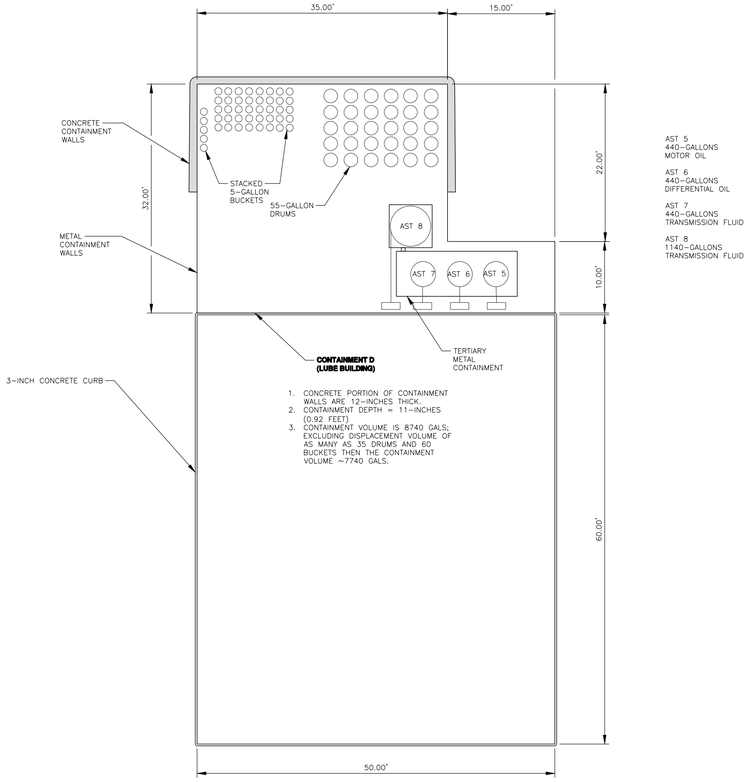
FUEL ISLAND - AST 1, 2, AND 3

1. CONTAINMENTS A AND B ARE COVERED.
2. CONTAINMENT WALLS ARE 6-INCH THICK CONCRETE.
3. DISPENSERS AND FILL PORTS ARE WITHIN THE CONTAINMENTS.
4. 3-INCH CONCRETE CURB SURROUNDS FUEL ISLAND AND WILL CATCH POTENTIAL DRIPS AND SPILLS DURING FUELING.



CONTAINMENT C - AST 4

CONTAINMENT DEPTH = 44 INCHES (3.67 FEET)



AST 5
440-GALLONS
MOTOR OIL

AST 6
440-GALLONS
DIFFERENTIAL OIL

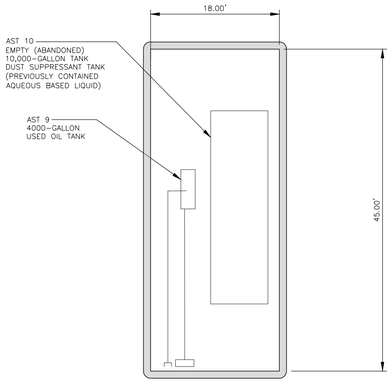
AST 7
440-GALLONS
TRANSMISSION FLUID

AST 8
1140-GALLONS
TRANSMISSION FLUID

1. CONCRETE PORTION OF CONTAINMENT WALLS ARE 12-INCHES THICK.
2. CONTAINMENT DEPTH = 11-INCHES (0.92 FEET).
3. CONTAINMENT VOLUME IS 8740 GALS; EXCLUDING DISPLACEMENT VOLUME OF AS MANY AS 35 DRUMS AND 60 BUCKETS THEN THE CONTAINMENT VOLUME ~7740 GALS.

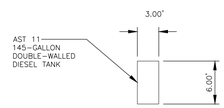
LUBE ISLAND - AST 5, 6, 7, AND 8

1. CONTAINMENT AND CONCRETE CURBED DRIVE-UP AREA ARE COVERED.
2. LUBE BUILDING WALLS ARE 12-INCH THICK CONCRETE.
3. DISPENSERS AND HOSES ARE WITHIN CONTAINMENT D.
4. 3-INCH CONCRETE CURB SURROUNDS AREA WHERE TRUCKS DRIVE UP AND WILL CATCH POTENTIAL DRIPS AND SPILLS DURING DISPENSING OF LUBRICANTS.



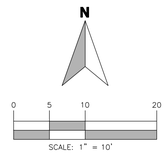
USED OIL BUILDING - CONTAINMENT E - AST 9 AND 10

1. COVERED BUILDING ACTS AS CONTAINMENT STRUCTURE.
2. BUILDING WALLS ARE CONCRETE AT THE BASE AND THE CONCRETE IS 12-INCH THICK AND 4-FEET DEEP.
3. EVACUATION PIPING AND PUMPS AND FILL PORTS FOR THE USED OIL TANK ARE WITHIN THE CONTAINMENT.



EMERGENCY GENSET WITH INTEGRAL TANK - AST 11

1. DOUBLE-WALLED 145-GALLON DIESEL TANK.
2. GENSET SITS WITHIN A CONCRETE CURBED AREA AS AN ADDITIONAL PRECAUTION
3. NO PIPING ASSOCIATED WITH THIS TANK



LEGEND

CONCRETE CONTAINMENT WALLS

IMAGE:	N/A
ISSUE DATE:	09/18/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	10'
JOB NO.:	10438-012

SHEET NO.: **3** OF 4

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REV.	BY	DATE

STATE OF TEXAS
ANDREA KIDD
132541
LICENSED
PROFESSIONAL ENGINEER

10/27/2023

Andrea Kidd, P.E.
License No. 132541

CONTAINMENTS
AST PLAN
CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
BALCONES QUARRY - NEW BRAUNFELS, TX

EDWARDS AQUIFER PROTECTION PROGRAM CONSTRUCTION NOTES – LEGAL DISCLAIMER

THE FOLLOWING/LISTED "CONSTRUCTION NOTES" ARE INTENDED TO BE ADVISORY IN NATURE ONLY AND DO NOT CONSTITUTE AN APPROVAL OR CONDITIONAL APPROVAL BY THE EXECUTIVE DIRECTOR (ED), NOR DO THEY CONSTITUTE A COMPREHENSIVE LISTING OF RULES OR CONDITIONS TO BE FOLLOWED DURING CONSTRUCTION. FURTHER ACTIONS MAY BE REQUIRED TO ACHIEVE COMPLIANCE WITH TCEQ REGULATIONS FOUND IN TITLE 30, TEXAS ADMINISTRATIVE CODE (TAC), CHAPTERS 213 AND 217, AS WELL AS LOCAL ORDINANCES AND REGULATIONS PROVIDING FOR THE PROTECTION OF WATER QUALITY. ADDITIONALLY, NOTHING CONTAINED IN THE FOLLOWING/LISTED "CONSTRUCTION NOTES" RESTRICTS THE POWERS OF THE ED, THE COMMISSION OR ANY OTHER GOVERNMENTAL ENTITY TO PREVENT, CORRECT, OR CURTAIL ACTIVITIES THAT RESULT OR MAY RESULT IN POLLUTION OF THE EDWARDS AQUIFER OR HYDROLOGICALLY CONNECTED SURFACE WATERS. THE HOLDER OF ANY EDWARDS AQUIFER PROTECTION PLAN CONTAINING "CONSTRUCTION NOTES" IS STILL RESPONSIBLE FOR COMPLIANCE WITH TITLE 30, TAC, CHAPTERS 213 OR ANY OTHER APPLICABLE TCEQ REGULATION, AS WELL AS ALL CONDITIONS OF AN EDWARDS AQUIFER PROTECTION PLAN THROUGH ALL PHASES OF PLAN IMPLEMENTATION. FAILURE TO COMPLY WITH ANY CONDITION OF THE ED'S APPROVAL, WHETHER OR NOT IN CONTRADICTION OF ANY "CONSTRUCTION NOTES," IS A VIOLATION OF TCEQ REGULATIONS AND ANY VIOLATION IS SUBJECT TO ADMINISTRATIVE RULES, ORDERS, AND PENALTIES AS PROVIDED UNDER TITLE 30, TAC § 213.10 (RELATING TO ENFORCEMENT). SUCH VIOLATIONS MAY ALSO BE SUBJECT TO CIVIL PENALTIES AND INJUNCTION. THE FOLLOWING/LISTED "CONSTRUCTION NOTES" IN NO WAY REPRESENT AN APPROVED EXCEPTION BY THE ED TO ANY PART OF TITLE 30 TAC, CHAPTERS 213 AND 217, OR ANY OTHER TCEQ APPLICABLE REGULATION

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION ACTIVITIES. THIS NOTICE MUST INCLUDE:
   – THE NAME OF THE APPROVED PROJECT;
   – THE ACTIVITY START DATE; AND
   – THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED AST PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON– SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
6. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON–SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTIONS OF THE SITE WILL HAVE A CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
10. THE FOLLOWING RECORDS SHOULD BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
    – THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
    – THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
    – THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
11. THE HOLDER OF ANY APPROVED AST PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
    A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMPS) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES, AND DIVERSIONARY STRUCTURES;
    B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED;
    C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
    D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED AS UNDEVELOPED IN THE APPROVED CONTRIBUTING ZONE PLAN.

AUSTIN REGIONAL OFFICE
12100 PARK 35 CIRCLE, BUILDING A
AUSTIN, TEXAS 78753–1808
PHONE (512) 339–2929
FAX (512) 339–3795

SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233–4480
PHONE (210) 490–3096
FAX (210) 545–4329

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

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED FACILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY, AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
2. FACILITIES PROPOSED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. DEVIATIONS FROM THE APPROVED PLANS MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD.
3. UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF THE WORK, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.
4. AS–BUILT DRAWINGS SHALL BE PREPARED BY A REGISTERED LAND SURVEYOR, REGISTERED IN THE STATE OF TEXAS, AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER OF RECORD. CONTRACTOR TO PROVIDE RECORD INFORMATION WHICH LOCATES ALL UNDERGROUND UTILITIES, SITE GRADING AND CLEARANCE TO WATER MAIN FROM OTHER UTILITIES HORIZONTAL AND VERTICAL.
5. CONTRACTOR SHALL NOTIFY TEXAS811 ONE CALL SYSTEM (1–800–344–8377) 48 HOURS IN ADVANCE OF CONSTRUCTION.
6. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE LEGALLY DISPOSED OF OFF–SITE IN AN APPROPRIATE AREA AT THE CONTRACTORS EXPENSE.
7. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES, SUCH AS TURBIDITY SCREENS, CURTAINS AND FLOATING SILT BARRIERS WHERE NECESSARY IN ORDER TO COMPLY WITH ALL STATE AND LOCAL WATER QUALITY STANDARDS.
8. ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
9. MINIMUM COVER SHALL BE 3.0 FEET FOR ALL PIPES. (TYPICAL) UNLESS OTHERWISE NOTED ON DRAWINGS.
10. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
11. CONTRACTOR SHALL MONITOR AND PROHIBIT THE DEFACING OF FRESHLY PLACED CONCRETE SURFACES. ANY CONCRETE SURFACES DEFACED SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
12. CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL VEGETATION AS REQUIRED TO CONSTRUCT THE REQUIRED IMPROVEMENTS.
13. PROJECT SITE SAFETY:
    13.1. THE ENGINEER/OWNER OR THEIR EMPLOYEES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER THE CONTRACTOR, ANY SUB–CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY JOBSITE HEALTH OR SAFETY PRECAUTIONS.
    13.2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN OWNER AND CONTRACTOR.
    13.3. ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE ARE ASSUMED TO BE LIVE, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES.
14. ALL CONCRETE SHALL DEVELOP A MINIMUM OF 4000 p.s.i. COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE STATED.
15. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATION OF ANY KIND THAT WILL COME UNDER THE PAVEMENT OR WITHIN 10 FEET OF ITS EDGES SHALL BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE BASE.
16. TRENCHES SHALL BE DRY WHEN PIPES ARE INSTALLED. PIPES PLACED BELOW THE WATER TABLE SHALL BE BEDDED ON PEA GRAVEL AND WELL POINT SYSTEMS SHALL BE USED. ALL DEWATERING PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
17. SIX (6) COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION. ALL REQUESTS FOR MATERIAL SUBSTITUTIONS MUST BE APPROVED PRIOR TO DELIVERY TO THE SITE. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL MANUFACTURED ITEMS.
18. ALL ROOTS IN THE PAVED AREA MUST BE REMOVED ONE FOOT BELOW THE BOTTOM OF SUB GRADE.
19. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STDS OF TCEQ
20. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS AS SHOWN ON THE DRAWINGS.
21. IF SOD IS USED ONSITE, IT SHALL BE PLACED 2" BELOW THE EDGES OF PAVEMENT TO ALLOW WATER TO DRAIN.
22. CONTOURS SHOWN ARE PRE DEVELOPMENT CONTOURS
23. COMPACTION NOTES:
    FOR FILL AREAS WHERE WATER WILL BE IMPOUNDED:
    23.1. PLACE FILL IN LIFTS NO MORE THAN 12" DEEP AT NEAR OPT. MOISTURE CONTENT.
    23.2. COMPACT TO AT LEAST 95% RC (ASTM D698)
    23.3. COMPACT TO SLOPE OF FACE
    FOR ON GRADE BERMS AND OTHER MISC. FILL
    23.4. PLACE CLEAN FILL IN 12" LIFTS
    23.5. COMPACT WITH ON–SITE HEAVY EQUIPMENT
24. ALL CONCRETE SURFACES TO BE BROOM FINISH UNO
25. DRAINAGE STRUCTURES TO MEET MIN. TxDOT SPECIFICATIONS FOR CONSTRUCTION AND PLACEMENT OF TYPE 3 DROP INLET
26. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND GRADING PRIOR TO CONSTRUCTION. ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
27. ALL RIP RAP SHALL BE COURSE GRADED ROCK AND SHALL BE SIZED IN ACCORDANCE WITH THE FOLLOWING TABLE

SLOPE	RIP RAP SIZE
0.5%–1%	4" ROCK
1.1% TO 2%	6" ROCK
2.1% TO 4%	8" ROCK
4.1% TO 5%	8"–12" ROCK

28. MIN THICKNESS OF RIPRAP TO BE 1.5 TIMES THE STONE DIAMETER UNO
29. GEOTEXTILE FABRIC (FILTER FABRIC) SHALL BE A MON–WOVEN POLYPROPALENE FABRIC DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA w/ APPROX. WEIGHT 6 OZ/YD^2, A MULLEN BURST RATTING OF 140 PSI, AND AN EQUIVALENT OPENING SIZE (ESO) GREATER THAN #50 SIEVE. TENCATE MIRIFI N–SERIES OF APPROVED EQUAL.
30. BASIN LINERS OVER THE RECHARGE ZONE SHALL COMPLY w/ RG–348 FOR COMPACTED CLAY LINERS.
31. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED FOR SLOPE STABILIZATION. SEED TO BE BERMUDA GRASS OR APPROVED ALTERNATES.
32. ALL CONCRETE SLABS TO HAVE #5 BARS EACH WAY AT 12" c/c IN CENTER OF SLAB UNO.

BMP CONSTRUCTION NOTES

1. COMPACTED EARTHEN BERM
   INSTALLATION:
   COMPRISED OF SOIL AND OVERBURDEN MATTER EITHER GENERATED ONSITE OR DELIVERED FROM OFFSITE. COMPACT WITH HEAVY EQUIPMENT IN 12" (MAX) LIFTS.
   MAINTENANCE (TEMPORARY):
   INSPECT BERMS ONCE A MONTH UNTIL SUFFICIENTLY VEGETATED. REPLACE AS NECESSARY.
2. ROCK BERM
   SHOULD BE SECURED WITH A WOVEN WIRE SHEATING, MAX. OPENING 1" AND MIN. WIRE DIA. 20 GAUGE GALVANIZED. SECURE WITH SHOAT RINGS.
   INSTALLATION:
   AGGREGATE USED SHOULD BE COMPRISED OF OPEN GRADED 3–5" DIAMETER ROCK. BERM SHOULD BE PLACED PERPENDICULAR TO FLOW LINE. SIDE SLOPE MUST BE 2:1 OR FLATTER. WIRE SHEATHING MUST BE SECURED WITH TIE WIRE SO THEY OVERLAP AT LEAST 2".
   BERM SHOULD BE BURIED IN A TRENCH APPROX. 4" DEEP.
   MAINTENANCE (TEMPORARY):
   INSPECT BERMS ONCE A WEEK. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6". REPLACE WHEN ROCK BECOMES CLOGGED WITH SEDIMENT.
   ALTERNATE #1 & #2 ROCK BERMS (WEI)
   INSTALLATION:
   AGGREGATE USED SHOULD BE COMPRISED OF OPEN GRADED 3–5" DIAMETER ROCK. BERM SHOULD BE PLACED PERPENDICULAR TO FLOW LINE.
   MAINTENANCE (TEMPORARY):
   INSPECT BERMS ONCE A WEEK. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6". REPLACE WHEN ROCK BECOMES CLOGGED WITH SEDIMENT.
3. SILT FENCE W/ TRENCHED TOE
   INSTALLATION:
   3.1 STEEL POSTS SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MIN. OF 1' DEEP AND SPACED NOT MORE THAN 8' ON CENTER. WHERE WATER CONCENTRATES, THE MAX. SPACING SHOULD BE 6'.
   3.2 LAY OUT FENCING DOWN SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE.
   3.3 THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN–SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 IN. OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
   3.4 THE TRENCH MUST BE A MIN. OF 6 IN. DEEP AND 6 IN. WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
   3.5 SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3–FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
   3.6 INSPECT SILT FENCES ONCE A WEEK. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6". REPLACE SILT FENCES WHEN TORN OR OTHERWISE UNABLE TO FILTER SEDIMENT.
4. STABILIZED CONSTRUCTION ENTRANCE
   INSTALLATION:
   4.1 AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
   4.2 THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12' OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
   4.3 THE CONSTRUCTION ENTRANCE SHOULD BE 50' LONG.
   4.4 IF THE SLOPE TOWARD THE ROAD EXCEEDS 2%, CONSTRUCT A RIDGE, 6–8" HIGHT WITH 3:1 (H:V) SIDE SLOPES, ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE PUBLIC ROAD.
   4.5 PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITONS ARE ANTICIPATED.
   4.6 PLACE STONE TO DIMENSION AND GRADE SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
   4.7 INSTALL A PIPE UNDER PAD AS NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
   MAINTENANCE: INSPECT WEEKLY. REPLACE STONE AS NECESSARY TO PREVENT TRACKING OFF–SITE.
   GEOTEXTILE FABRIC PROPERTIES:
   - o MIN. 6 OZ/SQ. YD.; 140 LB/SQ. IN MULLEN BURST;
   - o EQUIVALENT OPENING SIZE MIN. 50 SIEVE.
   - o GRADE SLOPE TO DRAIN.
   - o ADD ADDITIONAL STONE AS REQUIRED.
   - o STABILIZED CONSTRUCTION EXIT SHOULD EXTEND FULL WIDTH OF ROAD.

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

STATE OF TEXAS
ANDREA KIDD
132541
LICENSED PROFESSIONAL ENGINEER
10/27/2023
Andrea Kidd, P.E.
License No. 132541

CONSTRUCTION NOTES
AST PLAN
CEMEX CONSTRUCTION MATERIALS SOUTH, LLC
CEMEX BALCONES QUARRY – NEW BRAUNFELS, TEXAS

REV.	DESCRIPTION	BY	DATE

IMAGE:	N/A
ISSUE DATE:	08/16/2023
DRAWN BY:	AK
CHECKED BY:	CJF
SCALE: 1" =	NTS
JOB NO.:	10438–012

SHEET NO.:
4
OF 4

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

AST Plan Application (TCEQ-0575)
Attachment A

Alternative Methods of Secondary Containment

Dispensers, hoses, and nozzles for AST 1 and 2 are stored within Containment A and B, respectively, when not in use. There is a curbed concrete pad surrounding Containment A and B that serves as secondary containment for potential drips from hoses or nozzles for AST 1 and 2 during dispensing. (See scaled drawings of the containment structures at the Fuel Island.)

AST 5-8 contain maintenance oils and these tanks are within Containment D. This irregularly shaped containment structure can hold a volume of 8,740 gallons; removing the displacement volume of 1000 gallons to account for the storage of as many as thirty-five (35) 55-gallon drums and as many as sixty (60) 5-gallon buckets this containment area has an effective containment volume of 7,740 gallons. (See scaled drawings of the containment structures at the Lube Island.)

Dispensers, hose reels, hoses, and nozzles for AST 5-8 are stored within Containment D, when not in use. There is a curbed concrete pad adjacent to Containment D that serves as secondary containment for potential drips from hoses or nozzles from any of the tanks in the Lube Island during dispensing.

AST 11 is a 145-gallon double-walled diesel tank integral to the emergency genset. Double-walled tanks are manufactured to contain their entire contents in the double-walled exterior. The interstitial space between the steel walls serves as secondary containment. Discharges from the inner tank will flow into the outer wall that encloses it. The genset sits on a curbed concrete pad to catch any drips, spills, or leaks during fueling.

The site will be subject to the Environmental Protection Agency's requirements as specified in 40 CFR Part 112 regarding Spills, Prevention, Control, and Countermeasures (SPCC). The site will maintain an SPCC Plan in accordance with applicable rules.

AST Plan Application (TCEQ-0575)
Attachment B

Scaled Drawing of Containment Structure

Included are drawings of the existing containment structures.

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

AST Plan Application (TCEQ-0575)
Attachment D

Spill and Overfill Control

Personnel in charge of loading/unloading tanks will be trained to utilize proper techniques and preventive measures to avoid spills. The tank levels will be checked prior to loading/unloading and the operator will be present at all times during tank loading/unloading. The tank will be monitored as it is filled, either visually or in another manner, dependent upon the indicator present the tank.

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

AST Plan Application (TCEQ-0575)
Attachment E

Spill Response Actions

Education

(1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the 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, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.

(2) Store hazardous materials and wastes in covered containers and protect from vandalism.

(3) Place a stockpile of spill cleanup materials where it will be readily accessible.

(4) Train employees in spill prevention and cleanup.

(5) Designate responsible individuals to oversee and enforce control measures.

(6) Spills should be covered and protected from stormwater run on during rainfall to the extent that it doesn't compromise clean up activities.

(7) Do not bury or wash spills with water.

(8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

(9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

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

(11) Place Safety Data Sheets (SDS), 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) Any spills from an AST facility must be removed from the controlled drainage area for disposal within 24 hours of the spill.

(3) 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.

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

Minor Spills

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

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

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

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

(5) Contain the spread of the spill.

(6) Recover spilled materials.

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman as soon as possible.

(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, as soon as possible contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110, 119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

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

(4) The services of a spills contractor or a Haz-Mat team should be obtained as soon as possible. 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 as soon as possible. Follow company policy when responding to an emergency.

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

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) Fueling will occur over the impervious concrete slab. Drain pans, curbing and sumps will be used to control spills from fueling.

FCUL2 – UL LISTED FUEL TANKS

CLOSED TOP DIKED SKID BASE FUEL TANK

The generator set skid base contains an integral, UL listed, double walled, steel fuel storage tank with diked rupture basin for the containment of fuel resulting from a tank leak or rupture. The rupture basin is integrally vented and has a closed top to prevent the ingress of precipitation, debris or other elements. The tank is leak tested to 3 psi and pressure tested to 15 psi. The base tank is UL142 listed for Steel Above Ground Tanks for Flammable and Combustible Liquids under the "Special Purpose Tanks" category. They are intended for installation in accordance with the Flammable and Combustible Liquids Code, NFPA 30 of the National Fire Protection Association.

FCUL2 – Fuel capacity to provide typically 24 hour standby operation. See tables for actual fuel tank capacity and running hours.

FEATURES

CONSTRUCTION

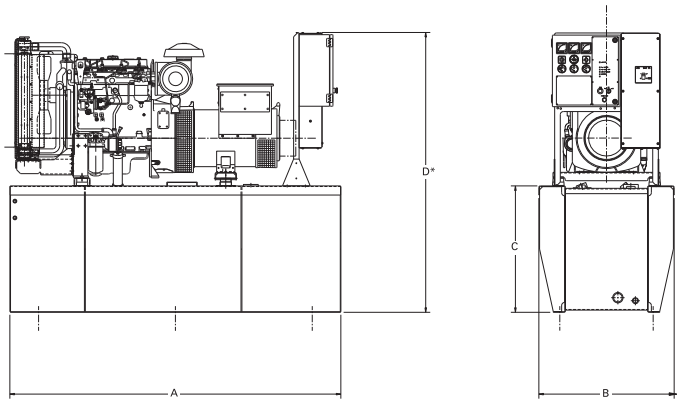
- Manufactured entirely from 8 gauge (4 mm) steel
- Continuously welded seams
- Formed steel channel type side beams
- Unitized load bearing structure
- Integral lifting points
- Corrosion resistant precoat
- Listed to UL142
- Closed top diked base tank, capacity 110%

AESTHETICS

- Continuous high gloss finish
- Polyester powder composite
- Extremely durable and corrosion resistant

DESIGN FEATURES

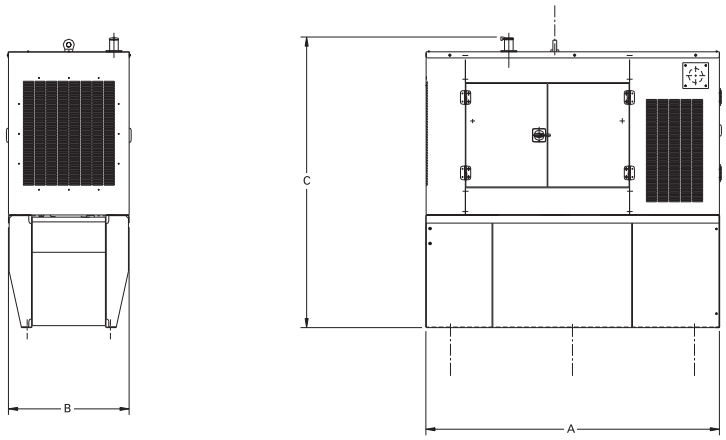
- Unique integral base and tank design
- Developed specifically for open or enclosed generator sets
- Internal baffles arranged to prevent recirculation of heated return fuel
- Brass composite 2" filler cap
- Mechanical fuel gauge
- Primary vent with breather
- Vent located accessible for adapting to remote venting
- Venting areas to UL142 specifications
- Leak detection switch
- Emergency vent for main tank
- Weatherproof diked containment basin
- Removable base-end cover plate encloses stub-up area when used with enclosures



OPEN GENERATOR SETS
DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

Generator Set Model	Working Tank Capacity, liters (US gallons)	Running Time, 75% Load (standby rating)	Running Time, 100% Load (standby rating)	Generator Dimensions, mm (in)				Weight ** kg (lb)
				Length	Width	Height FCUL2		
	FCUL2	FCUL2	FCUL2	A	B	C	D*	FCUL2
D13-4	173 (46)	49.4	36.0	1900 (74.8)	900 (35.4)	265 (10.4)	1403 (55.2)	677 (1493)
D13-4S	173 (46)	49.4	36.0	1900 (74.8)	900 (35.4)	265 (10.4)	1403 (55.2)	677 (1493)
D20-6	173 (46)	35.3	26.6	1900 (74.8)	900 (35.4)	265 (10.4)	1403 (55.2)	751 (1656)
D20-6S	173 (46)	35.3	26.2	1900 (74.8)	900 (35.4)	265 (10.4)	1403 (55.2)	751 (1656)
D25-8	190 (50.2)	30.6	22.6	1908 (75.1)	950 (37.4)	510 (20.1)	1526 (60.1)	977 (2154)
D25-6S	190 (50.2)	30.6	22.6	1908 (75.1)	950 (37.4)	510 (20.1)	1526 (60.1)	977 (2154)
D30-10	190 (50.2)	26.0	18.8	1908 (75.1)	950 (37.4)	510 (20.1)	1526 (60.1)	987 (2176)
D30-10S	190 (50.2)	26.4	19.0	1908 (75.1)	950 (37.4)	510 (20.1)	1526 (60.1)	987 (2176)
D40-6	550 (145.3)	50.0	39.0	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1333 (2938.9)
D40-6S	550 (145.3)	49.1	37.9	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1333 (2938.9)
D50-6	550 (145.3)	41.7	31.6	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1353 (2982.9)
D50-6S	550 (145.3)	40.4	30.1	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1353 (2982.9)
D60-6	550 (145.3)	32.4	28.1	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1427 (3145.9)
D60-8S	550 (145.3)	32.2	27.9	2208 (86.9)	1000 (39.4)	734 (26.9)	1999 (78.7)	1427 (3145.9)
D80-6	720 (190)	37.9	29.4	2604 (102.5)	1100 (43.3)	870 (34.3)	2020 (79.5)	1527 (3366)
D80-2S	720 (190)	37.9	29.4	2604 (102.5)	1100 (43.3)	870 (34.3)	2020 (79.5)	1503 (3314)
D100-6	720 (190)	31.1	23.5	2604 (102.5)	1100 (43.3)	870 (34.3)	2020 (79.5)	1575 (3472)
D100-6S	720 (190)	31.3	23.7	2604 (102.5)	1100 (43.3)	870 (34.3)	2020 (79.5)	1635 (3605)
D125-6	1077 (284)	34.1	26.5	2930 (115.4)	1100 (43.3)	820 (32.3)	2013 (79.3)	1910 (4212)
D150-8	1077 (284)	29.3	24.1	2930 (115.4)	1100 (43.3)	820 (32.3)	2013 (79.3)	1970 (4344)
D175-2	1219 (322)	30.0	24.0	3290 (129.5)	1308 (51.5)	780 (30.7)	2057 (80.9)	2199 (4847)

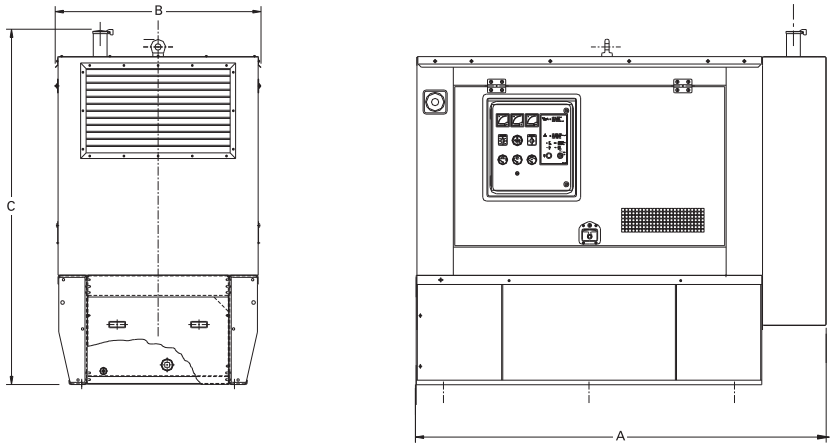
* "D" dimension is highest point on generator set and may be to either top of control panel or top of radiator depending upon model.
** Weight with lube oil and coolant



WEATHERPROOF ENCLOSED GENERATOR SETS WITH CAWB ENCLOSURE DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

Generator Set Model	Working Tank Capacity, liters (US gallons)	Running Time, 75% Load (standby rating)	Running Time, 100% Load (standby rating)	Generator Dimensions, mm (in)			Weight * kg (lb)
				Length	Width	Height FCUL2	
	FCUL2	FCUL2	FCUL2	A	B	C	FCUL2
D40-6	547 (145)	49.7	38.8	2208 (86.9)	1000 (39.4)	2162 (85.1)	1440 (3174.7)
D40-6S	547 (145)	48.8	37.7	2208 (86.9)	1000 (39.4)	2162 (85.1)	1440 (3174.7)
D50-6	547 (145)	41.4	31.4	2208 (86.9)	1000 (39.4)	2162 (85.1)	1460 (3218.7)
D50-6S	547 (145)	40.2	29.9	2208 (86.9))	1000 (39.4)	2162 (85.1)	1460 (3218.7)
D60-6	547 (145)	32.2	27.9	2208 (86.9)	1000 (39.4)	2162 (85.1)	1522 (3355.4)
D60-8S	547 (145)	32.0	27.8	2208 (86.9)	1000 (39.4)	2162 (85.1)	1522 (3355.4)
D80-6	720 (190)	36.5	29.1	2604 (102.5)	1100 (43.3)	2286 (89.9)	1791 (3948)
D80-2S	720 (190)	36.5	29.1	2604 (102.5)	1100 (43.3)	2286 (89.9)	1767 (3896)
D100-6	720 (190)	30.4	24.2	2604 (102.5)	1100 (43.3)	2286 (89.9)	1839 (4054)
D100-6S	720 (190)	30.4	24.2	2604 (102.5)	1100 (43.3)	2148 (84.6)	1899 (4187)
D125-6	1077 (284)	34.1	26.5	2930 (115.4)	1100 (43.3)	2380 (93.7)	2347 (5175)
D150-8	1077 (284)	29.3	24.1	2930 (115.4)	1100 (43.3)	2380 (93.7)	2407 (5307)
D175-2	1219 (322)	30.0	24.0	3290 (129.5)	1308 (51.5)	2432 (95.7)	2655 (5853)

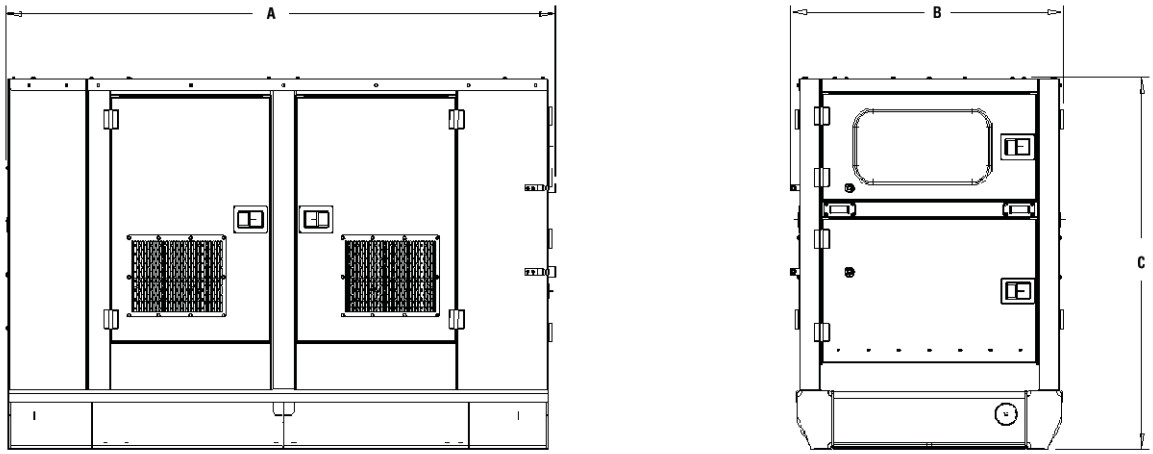
* Weight with lube oil and coolant



SOUND ATTENUATED ENCLOSED GENERATOR SETS WITH CAE/CAL ENCLOSURE DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

Generator Set Model	Working Tank Capacity, liters (US gallons)	Running Time, 75% Load (standby rating)	Running Time, 100% Load (standby rating)	Generator Dimensions, mm (in)			Weight * kg (lb)
				Length	Width	Height FCUL2	
	FCUL2	FCUL2	FCUL2	A	B	C	FCUL2
D13-4	173 (46)	49.4	36.0	1680 (66.1)	860 (33.9)	1755 (69.1)	940 (2072)
D13-4S	173 (46)	49.4	36.0	1680 (66.1)	860 (33.9)	1755 (69.1)	940 (2072)
D20-6	173 (46)	35.3	26.6	1680 (66.1)	860 (33.9)	1755 (69.1)	1014 (2236)
D20-6S	173 (46)	35.3	26.2	1680 (66.1)	860 (33.9)	1755 (69.1)	1014 (2236)
D25-8	233 (62)	37.6	27.7	2100 (82.7)	970 (38.2)	1665 (65.6)	1061 (2339)
D25-8S	233 (62)	37.6	27.7	2100 (82.7)	970 (38.2)	1665 (65.6)	1061 (2339)
D30-10	233 (62)	31.9	23.1	2100 (82.7)	970 (38.2)	1665 (65.6)	1071 (2361)
D30-8S	233 (62)	32.4	23.1	2100 (82.7)	970 (38.2)	1665 (65.6)	1071 (2361)
D40-6	550 (145.3)	50.0	39.0	2275 (89.6)	1100 (43.3)	2048 (80.6)	1491 (3287.1)
D40-6S	550 (145.3)	49.1	37.9	2275 (89.6)	1100 (43.3)	2048 (80.6)	1491 (3287.1)
D50-6	550 (145.3)	41.7	31.6	2275 (89.6)	1100 (43.3)	2048 (80.6)	1511 (3331.2)
D50-6S	550 (145.3)	40.4	30.1	2275 (89.6)	1100 (43.3)	2048 (80.6)	1511 (3331.2)
D60-6	550 (145.3)	32.4	28.1	2275 (89.6)	1100 (43.3)	2048 (80.6)	1685 (3714.8)
D60-8S	550 (145.3)	32.2	27.9	2275 (89.6)	1100 (43.3)	2048 (80.6)	1685 (3714.8)
D80-6	788 (208)	40.0	31.9	2804 (110.4)	1100 (43.3)	2195 (86.4)	1866 (4114)
D80-2S	788 (208)	40.0	31.9	2804 (110.4)	1100 (43.3)	2195 (86.4)	1842 (4061)
D100-6	788 (208)	33.2	26.4	2804 (110.4)	1100 (43.3)	2195 (86.4)	1913 (4217)
D100-6S	788 (208)	33.2	26.4	2804 (110.4)	1100 (43.3)	2195 (86.4)	1974 (4352)
D125-6	1430 (378)	32.0	25.0	3900 (153.5)	1304 (51.3)	2408 (94.8)	3174 (6997)
D150-8	1430 (378)	32.0	25.0	3900 (153.5)	1304 (51.3)	2408 (94.8)	3174 (6997)
D175-2	1430 (378)	32.0	25.0	3900 (153.5)	1304 (51.3)	2408 (94.8)	3174 (6997)

* Weight with lube oil and coolant



XQ RENTAL GENERATOR SETS
DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

Generator Set Model	Working Tank Capacity, liters (US gallons)	Running Time, 75% Load (standby rating)	Running Time, 100% Load (standby rating)	Generator Dimensions, mm (in)			Weight ** kg (lb)
				Length	Width	Height * FCUL2	
	FCUL2	FCUL2	FCUL2	A	B	C	FCUL2
XQ20	161 (42.5)	32.7	25	1980 (78)	820 (32.3)	1555 (61.2)	1110 (2447.1)
XQ30	172 (45.4)	23.9	27.5	2283 (90)	1130 (44.5)	1570 (61.8)	1597 (3520.8)
XQ45	483 (127.6)	39+	31+	2900 (114.2)	1130 (44.5)	2163 (85.3)	2006 (4422.5)
XQ60	483 (127.6)	28+	24+	2900 (114.2)	1130 (44.5)	2163 (85.3)	2128 (4691.4)
XQ80	634 (167.5)	32	25	3280 (129.1)	1130 (44.5)	1870 (73.6)	2445 (5390)
XQ100	634 (167.5)	27	21	3280 (129.1)	1130 (44.5)	1870 (73.6)	2495 (5501)
XQ175	998 (264)	24	19	3722.5 (146.55)	1157 (44.55)	2159.8 (85.03)	3145 (6934)

* Dimensions do not include trailer
** Weight with lube oil and coolant

Market: N. America

LEHE5371-10 (11-10)

www.Cat-ElectricPower.com

Temporary Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

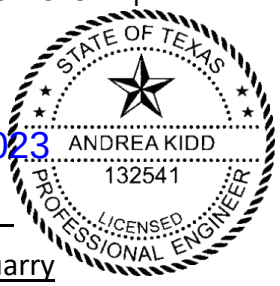
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The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

Print Name of Engineer/Agent: Andrea Kidd, P.E.

TX License No. 132541 | TX Firm No. 4524

Date: 10/27/2023

Signature of Engineer/Agent:



Regulated Entity Name: Cemex Balcones Quarry

Project Information

Potential Sources of Contamination

Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid 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: diesel, maintenance oils, used oil, and miscellaneous oils.

   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.

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. **N/A**

☐ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given. **N/A**

☐ 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. **N/A**

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: **N/A**

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. **N/A**

8. The following information is attached: **N/A**

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

9. ☒ 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.

10. ☐ **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. **N/A**

11. ☐ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached: **N/A**

- ☐ 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.

12. ☐ **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

13. ☐ **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. **N/A**

14. ☐ 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. **N/A**

15. ☐ 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). **N/A**

16. ☐ 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. **N/A**

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

Soil Stabilization Practices

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

18. ☐ **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. **N/A – No grading to occur.**

19. ☐ 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. **N/A**

20. ☐ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased. **N/A**

Administrative Information

21. ☐ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project. **N/A**

22. ☒ 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.

23. ☐ 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. **N/A**

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

Temporary Stormwater Section (TCEQ-0602)
Attachment A

Spill Response Actions

Education

(1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a "significant spill" is for each material they use, and what is the appropriate response for "significant" and "insignificant" spills. Employees should also be aware of when spill must be reported to the 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, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately.

(2) Store hazardous materials and wastes in covered containers and protect from vandalism.

(3) Place a stockpile of spill cleanup materials where it will be readily accessible.

(4) Train employees in spill prevention and cleanup.

(5) Designate responsible individuals to oversee and enforce control measures.

(6) Spills should be covered and protected from stormwater run on during rainfall to the extent that it doesn't compromise clean up activities.

(7) Do not bury or wash spills with water.

(8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

(9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

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

(11) Place Safety Data Sheets (SDS), 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) Any spills from an AST facility must be removed from the controlled drainage area for disposal within 24 hours of the spill.

(3) 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.

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

Minor Spills

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

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

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

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

(5) Contain the spread of the spill.

(6) Recover spilled materials.

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

Semi-Significant Spills

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

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman as soon as possible.

(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, as soon as possible contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

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

(4) The services of a spills contractor or a Haz-Mat team should be obtained as soon as possible. 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 as soon as possible. Follow company policy when responding to an emergency.

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

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) Fueling will occur over the impervious concrete slab. Drain pans, curbing and sumps will be used to control spills from fueling.

Portable Toilet BMPs:

If portable toilets are used at this site, they 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 filter strip area
- A berm will be constructed around all portable toilet facilities.
- Prepare a level ground surface with clear access to the toilets.

Secure all portable toilets to prevent tipping by accident, weather, or vandalism.

Cemex Construction Materials South, LLC
Cemex Balcones Quarry

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: _____

_____

_____

_____

Emergency Number for the National Response Center 1-800-424-8802

Temporary Stormwater Section (TCEQ-0602)
Attachment B

Potential Sources of Contamination

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

Temporary Stormwater Section (TCEQ-0602)
Attachments C, D, E, F, G, H, I & J

The Temporary Stormwater Attachments C, D, E, F, G, H, I, and J are not necessary for this project as no grading activities are occurring as a result of this AST Plan application.

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing 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.)*

☒ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ 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 603403973		RN 102437274

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* *If new Customer, enter previous Customer below:*

Cemex Construction Materials South, LLC

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if pplicable)*
0801019208	12630679863		

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?
☐ Yes ☒ No

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☒ Operator ☐ Owner & Operator ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address: 2682 Wald Rd

City	New Braunfels	State	TX	ZIP	78132	ZIP + 4	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*
lancew.griffin@cemex.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 608-3553		

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Cemex Balcones Quarry

23. Street Address of the Regulated Entity: *(No PO Boxes)*	2682 Wald Rd							
	City	New Braunfels	State	TX	ZIP	78132	ZIP + 4	
24. County	Comal							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			State	Nearest ZIP Code	
New Braunfels			Texas	78132	

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	29.671254°		28. Longitude (W) In Decimal:	-98.188418°	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	40	16.52	98	11	18.31

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

34. Mailing Address:	2682 Wald Rd							
	City	New Braunfels	State	TX	ZIP	78132	ZIP + 4	

35. E-Mail Address:	lancew.griffin@cemex.com		
36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*	
(830) 608-3553			

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.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
		New AST Plan		
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

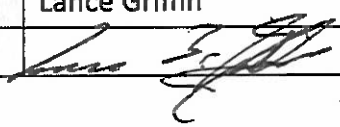
SECTION IV: Preparer Information

40. Name:	Andrea Kidd, P.E.	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(830) 249-8284		(830) 249-0221	akidd@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:	Cemex Construction Materials South, LLC	Job Title:	Texas Director Aggregate Operations
Name *(In Print)*:	Lance Griffin	Phone:	(830) 608-3553
Signature:		Date:	8/16/23

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

I Lance Griffin,
Print Name

Texas Director Aggregate Operations,
Title - Owner/President/Other

of Cemex Construction Materials South, LLC,
Corporation/Partnership/Entity Name

have authorized Curt G. Campbell, P.E., Gary D. Nicholls, P.E., Andrea Kidd, P.E., Vance Houy, P.E.,and Nicolas E. Mercado, P.E.
Print Name of Agent/Engineer

of Westward Environmental, Inc.
Print Name of Firm

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

I also understand that:

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

2. For 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

Date

THE STATE OF TEXAS §

County of COMAL §

BEFORE ME, the undersigned authority, on this day personally appeared LANCE GRIFFIN 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 4th day of AUGUST, 2023.

TINA L REYNOLDS
MY COMMISSION EXPIRES
01/28/2027
NOTARY ID 128505232

NOTARY PUBLIC

TINA L REYNOLDS
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 01/28/2027

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Cemex Balcones Quarry
Regulated Entity Location: 2682 Wald Rd, New Braunfels TX 78132
Name of Customer: Cemex Construction Materials South, LLC
Contact Person: Lance Griffin Phone: (830) 608-3553
Customer Reference Number (if issued):CN 603403973
Regulated Entity Reference Number (if issued): RN 102437274

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
☒ Mailed to: TCEQ - Cashier **ePay**
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☐ San Antonio Regional Office
☐ Overnight Delivery to: TCEQ - Cashier
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	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	10 Tanks	$ 6,500
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 8/4/23

TCEQ-0574 (Rev. 02-24-15)

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

Project	*Cost per Tank or Piping System*	*Minimum Fee-Maximum Fee*
Underground and Aboveground Storage Tank Facility	$650	$650 - $6,500

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

Owner Authorization Form

Texas Commission on Environmental Quality
for Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

Land Owner Authorization

I, _____ of Cemex U S A Const Materials, Inc.
Land Owner Signatory Name — Land Owner Name (Legal Entity or Individual)

am the owner of the property located at

(Property ID 71914) A-2 SUR-1 JM VERAMENDI, ACRES 410.443 and (Property ID 71916) A-2 SUR-1 JM VERAMENDI, ACRES 78.879

Legal description of the property referenced in the application

and am duly authorized in accordance with §213.4(c)(2) and §213.4(d)(1) or §213.23(c)(2) and §213.23(d) relating to the right to submit an application, signatory authority, and proof of authorized signatory.

I do hereby authorize Cemex Construction Materials South, LLC
Applicant Name (Legal Entity or Individual)

to conduct installation and operation of aboveground storage tanks
Description of the proposed regulated activities

at 2682 Wald Rd, New Braunfels, Texas 78132.
Precise location of the authorized regulated activities

Land Owner Acknowledgement

I understand that Cemex U S A Const Materials, Inc.
Land Owner Name (Legal Entity or Individual)

Is ultimately responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation even if the responsibility for compliance and the right to possess and control the property referenced in the application has been contractually assumed by another legal entity. I further understand that any failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Land Owner Signature

Land Owner Signature

8/4/23
Date

THE STATE OF § TEXAS

County of § COMAL

BEFORE ME, the undersigned authority, on this day personally appeared LANCE GRIFFIN 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 4th day of AUGUST 2023

Tina Reynolds
NOTARY PUBLIC

TINA L REYNOLDS
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 01/28/2027

Attached: (Mark all that apply)

- ☐ Lease Agreement
- ☐ Signed Contract
- ☐ Deed Recorded Easement
- ☐ Other legally binding document

Applicant Acknowledgement

I, Lance Griffin of Cemex Construction Materials South, LLC
Applicant Signatory Name — Applicant Name (Legal Entity or Individual)

acknowledge that Cemex U S A Const Materials, Inc.
Land Owner Name (Legal Entity or Individual)

has provided Cemex Construction Materials South, LLC
Applicant Name (Legal Entity or Individual)

with the right to possess and control the property referenced in the Edwards Aquifer protection plan.

I understand that Cemex Construction Materials South, LLC
Applicant Name (Legal Entity or Individual)

is contractually responsible for compliance with the approved or conditionally approved Edwards Aquifer protection plan and any special conditions of the approved plan through all phases of plan implementation. I further understand that failure to comply with any condition of the executive director's approval is a violation is subject to administrative rule or orders and penalties as provided under §213.10 (relating to Enforcement). Such violation may also be subject to civil penalties and injunction.

Applicant Signature

Applicant Signature — Date: 8/4/23

THE STATE OF § TEXAS

County of § COMAL

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Tina Reynolds
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MY COMMISSION EXPIRES: 01/28/2027

NOTARY PUBLIC STATE OF TEXAS
TINA L REYNOLDS
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