Murfee Engineering Company, Inc.

AMARRA DR ODOR CONTROL VAULT

TCEQ CZP EXCEPTION REQUEST

Prepared for:

Travis County Municipal Utility District No. 4
c/o Armbrust & Brown
100 Congress Avenue, Suite 1300
Austin, Texas 78701

Prepared by:

Murfee Engineering Company, Inc.
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September 2024

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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: Amarra Dr Odor Control Vault					**2. Regulated Entity No.:**				
3. Customer Name: Travis County MUD 4					**4. Customer No.: 601178940**				
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):**			Proposed LOC= 3151 sf
9. Application Fee:	$500		**10. Permanent BMP(s):**						
11. SCS (Linear Ft.):			**12. AST/UST (No. Tanks):**						
13. County:	Travis		**14. Watershed:**					Barton	

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.)	___	_1_	___
Region (1 req.)	___	_1_	___
County(ies)	___	_1_	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	_1_Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	_1_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.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___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 ___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.	
Bryce Canady, PE Bryce Canady Print Name of Customer/Authorized Agent	
Bryce Canady Signature of Customer/Authorized Agent	9/19/2024 Date

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

Contributing Zone Exception Request Form

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), 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 **Contributing Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Bryce Canady, PE

Date: 9/18/2024

Signature of Customer/Agent:

Bryce Canady

Regulated Entity Name: Amarra Dr Odor Unit Vault

Project Information

1. County: Travis
2. Stream Basin: Segment 1430A
3. Groundwater Conservation District (if applicable): _____
4. Customer (Applicant):

   Contact Person: Mr. Doug Conolly
   Entity: TC MUD 4
   Mailing Address: c/o Armbrust & Brown
   100 Congress Ave. Suite 1300
   City, State: Austin, TX Zip: 78701
   Telephone: 512 435 2300 Fax: _____

Email Address: jdc@reagan.com

5. Agent/Representative (If any):

Contact Person: Mr. Bryce Canady, PE
Entity: Murfee Engineering
Mailing Address: 1101 S Capital of Texas
City, State: Westlake Hills, TX Zip: 78746
Telephone: 512 - 327 - 9204 Fax: _____
Email Address: bcanady@murfee.com

6. Project Location

☐ This project is inside the city limits of _____.
☒ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of Austin.
☐ This project is not located within any city limits or ETJ.

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

The odor control vault will be located within the R.O.W. off of Amarra Dr, approximately 515 ft south of Carrazco Dr.

8. ☒ **Attachment A - Road Map**. A road map showing directions to and location of the project site is attached. The map clearly shows the boundary of the project site.

9. ☒ **Attachment B - USGS Quadrangle Map**. A copy of the USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) should clearly show:

☒ Project site boundaries.
☒ USGS Quadrangle Name(s).

10. ☒ **Attachment C - Project Narrative**. A detailed narrative description of the proposed project is provided at the end of this form. 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

11. 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/Not cleared)
☐ Other: _____

12. ☒ **Attachment D - Nature Of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter B for which an exception is being requested have been identified in the description.

13. ☒ **Attachment E - Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for surface streams which enter the Edwards Aquifer is attached.

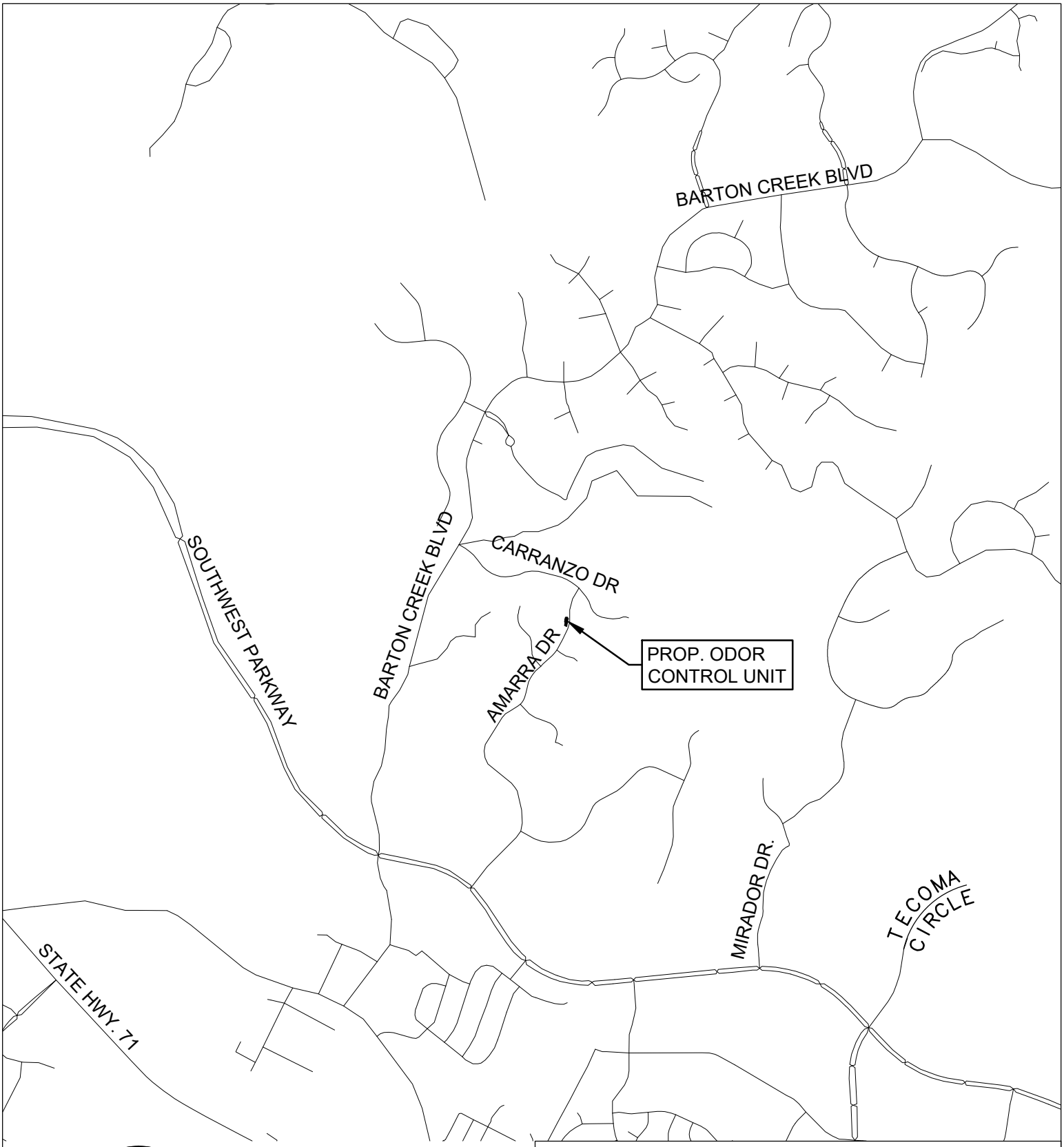
Administrative Information

14. ☒ 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.

15. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Attachment A

Road Map



MEC

Murfee Engineering Company
Texas Registered Engineering Firm F-353

1101 Capital of Texas Highway South, Building D, Suite 110, Austin, Texas 78746, (512) 327-9204

TRAVIS COUNTY M.U.D. #4
AMARRA DR ODOR CONTROL VAULT

DATE: 9/17/2024	**JOB NO. 98-084-468-3**	**SCALE: AS NOTED**
DESIGNED BY: JM	**DRAWN BY: RLW**	**CHECKED BY: JM**

FILE: W:\TCMUD 4\Facilities\Wastewater\South WWTP SADDS-Phase 1\CAD\ROADS_TX83-CF.dwg

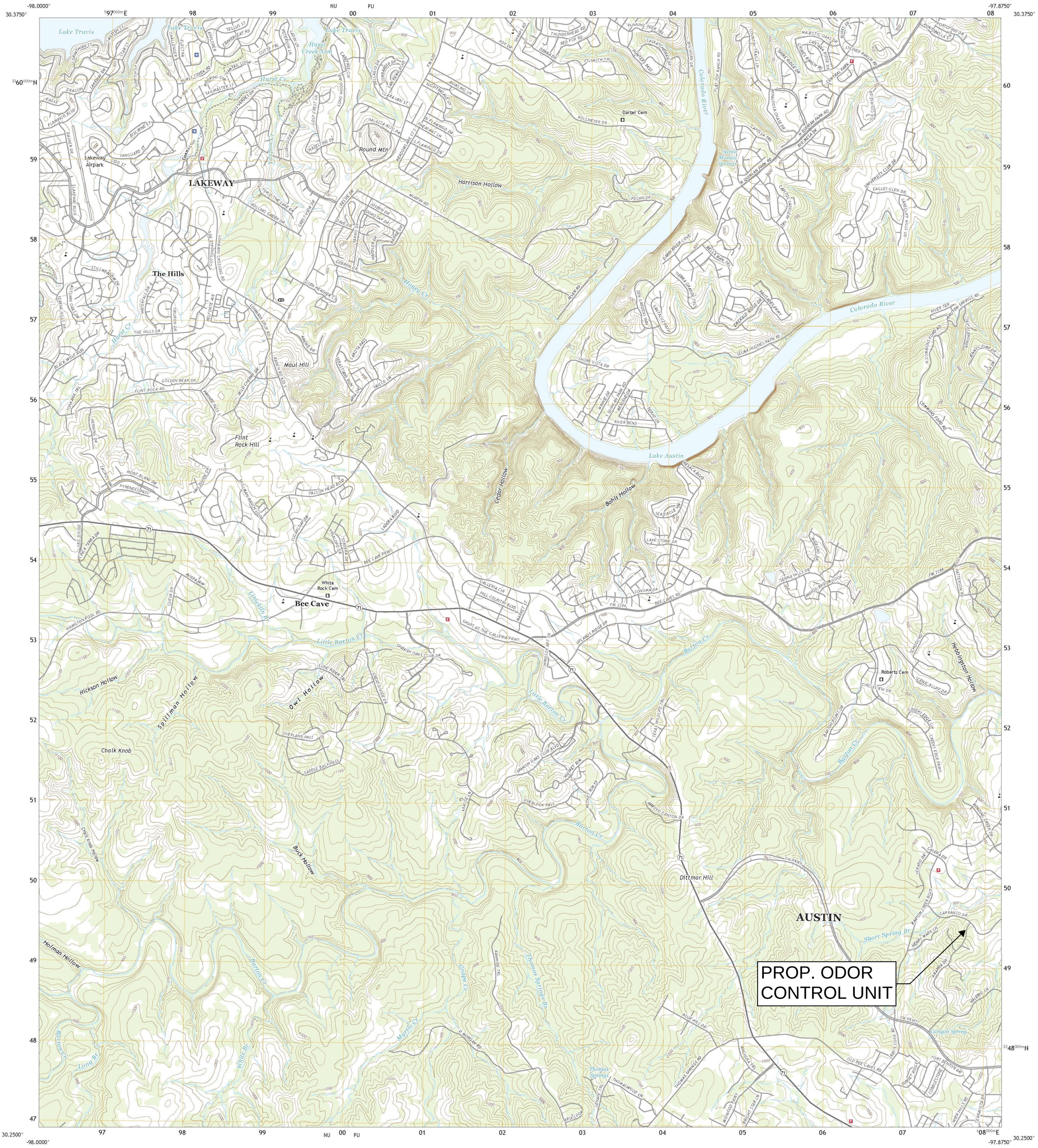
Attachment B

USGS Quadrangle Map

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

BEE CAVE QUADRANGLE
TEXAS - TRAVIS COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14R

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015
Names.....GNIS, 1979 - 2018

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

QUADRANGLE LOCATION

1 Pace Bend

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

DESIGNED BY:	JM	MURFEE ENGINEERING COMPANY	1101 CAPITAL OF TEXAS HIGHWAY SOUTH BUILDING D, SUITE 110 AUSTIN, TEXAS 78746 (512) 327-9204 TEXAS REGISTERED ENGINEERING FIRM F-353
DRAWN BY:	JM		
CHECKED BY:	JM		
APPROVED BY:	JM		
DATE:	9/19/2024		

PLOT DATE:
FILE PATH:

TRAVIS COUNTY MUD 4
AMARRA DR ODOR CONTROL VAULT

ATTACHMENT B
USGS MAP

CONTRIBUTING ZONE PLAN EXCEPTION – ATTACHMENTS

Pursuant to 20 TAC §213.26, Travis County MUD 4 seeks an exception from the requirements of §213.24(6)(C) and by reference §213.5(b)(4)(D)(ii).

ATTACHMENT A AND B: The Road Map and USGS Quad shown above.

ATTACHMENT C – PROJECT DESCRIPTION

The project consists of the construction concrete vault, installation of a 300 cubic feet per minute rated carbon odor control system, 36 linear feet of 8" schedule (SCH) 40 polyvinyl chloride (PVC) pipe, and all other work and materials as shown on the drawings and/or specifications

The dimensions of the vault will be 15'2" x 16'10" at a depth of 10'. The pipe will exit the vault and extend approximately 20' north and 20' east of the vault below grade, where it will penetrate and connect into the manhole located in the road. The total limit of construction is approximated to be 0.066 ac.

ATTACHMENT D – NATURE OF EXCEPTION

The exception request relates to the construction of the above noted improvements. Being mostly underground, the only impervious cover is associated with the top slab of the vault protruding ground level. The applicant requests an exception from 213.24(6)(C), and by reference from 213.5(b)(4)(D)(ii) as authorized by 30 TAC Chapter 213.26 in which the executive director may grant an exception to any substantive provision of this subchapter related to the protection of water quality if the requestor can demonstrate equivalent water quality protection for surface streams which enter the recharge zone of the Edwards Aquifer. Attachment E provides such a demonstration of equivalent water quality protection.

ATTACHMENT E – EQUIVALENT WATER QUALITY PROTECTION

The proposed impervious cover is calculated to be 255.3 sq.ft. for the top slab of the vault. Runoff will sheet flow off the vault following existing drainage patterns. All stormwater runoff within this drainage basin will be directed to a vegetated filter strip before leaving the property. With these design and operation elements, the project provides an equivalent water quality protection and thus the necessary protection to meet TCEQ EAPP requirements.

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 Customer/Agent: Bryce Canady, PE

Date: 9/19/2024

Signature of Customer/Agent:

Bryce Canady

Regulated Entity Name: Amarra Dr Odor Control Vault

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: _____

   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.

   ☒ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

   ☐ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Unnamed Tributary to Barton Creek

Temporary Best Management Practices (TBMPs)

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

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

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

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

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

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

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

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

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

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

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

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

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

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

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

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

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

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

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

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

Soil Stabilization Practices

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

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

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

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

Administrative Information

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

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

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

TEMPORARY STORMWATER ATTACHMENTS

Attachment A – Spill Response Actions

If a hydrocarbon or hazardous material spill occurs, measures must be taken immediately by the responsible party to ensure protection of sensitive features such as streams in the area. As soon as a spill occurs, Travis County Emergency Service District (ESD) #3 (Phone#: 512-288-5534) must be notified and report to the scene to begin mitigating the spill. Chapter 7, Section 4 of the TxDOT Maintenance Management Manual describes Recommended Initial Response Actions below.

Recommended Initial Response Actions

Only trained personnel should ever approach a *fire or* a *spill. Containment, cleanup, or neutralization* of *the hazardous material should be accomplished by individuals or organizations familiar with or trained in such activities. The following steps should be considered general guidelines and may not apply for all circumstances:*

1. *Notify law enforcement and fire department* of *roadway accident.*
2. *Survey the scene from* a safe *distance and determine the responsible person. Consult the USDOT Emergency Response Guidebook for specific hazardous material information. From* a safe *distance, determine the integrity* of *the container(s), determine the existence or possibility* of *runoff, determine if any dead animals are near, evaluate the distressed nature* of *surrounding vegetation. Evaluate any markings on containers.* Assess *the physical characteristics* of *the material (color, solid, liquid, powder, or granules).*
3. *Using guidelines in the Emergency Response Guidebook, restrict* access *to the spill site. Keep the public away from the hazard. Provide traffic control,* as *needed.*
4. *Notify supervisor by radio or telephone.*
5. *Supervisor should notify local fire department, Department* of *Public Safety, and district hazardous materials coordinator. Supervisor should ensure that field personnel only conduct traffic control from* a safe *distance from the spill.*
6. *Determine if* a *reportable discharge or spill has occurred and if* so, *the district hazardous materials coordinator should ensure TCEQ has been notified* of *the spill or release* as *soon* as *possible but not later than* 24 *hours after the discovery* of *the spill or discharge. Provide the following information, if possible:*
    - *the name, address, and phone number* of *the person making the report*
    - *the date, time, and location* of *the spill or discharge*
    - a *specific description* of *the hazardous substance discharged or spilled*
    - *an estimate* of *the quantity discharged or spilled*
    - *the duration* of *the incident*
    - *the name* of *the surface water affected or threatened by the discharge or spill*
    - *the source* of *the discharge or spill*
    - a *description* of *the extent* of *actual or potential harmful impact to the environment and an identification* of *any environmentally sensitive areas or natural resources at risk*

- *the names, addresses, and telephone numbers* of *the responsible person and the contact person at the location* of *the discharge or spill*
- a *description* of *any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill*
- *any known or anticipated health risks*
- *the identity* of *any governmental representatives, including local authorities or third parties, responding to the discharge or spill*
- *any other information that may be significant to the response action.*

Title 30, Part 1 Chapter 327.5 of the Texas Administrative Code outlines required actions of responsible parties and local responders in the event of a hazardous material spill. These actions are as follows:

The responsible person shall immediately abate and contain the spill or discharge and cooperate fully with the executive director and the local incident command system. The responsible person shall also begin reasonable response action, which may include, but are not limited to, the following actions:

(1) Arrival of *the responsible person or response personnel hired by the responsible person at the site* of *the discharge or spill;*
(2) Initiating efforts to stop the discharge or spill;
(3) Minimizing the impact to the public health and the environment
(4) Neutralizing the effects of the incident;
(5) Removing the discharged or spilled substances; and
(6) Managing the wastes.

It will be the responsibility of the Travis County ESD #3 (Phone#: 512-288-5534) to contain and mitigate the spill. Responsible parties will take the following actions for Hazardous/Unknown Materials and for Reportable Hydrocarbon Material Spills:

A) Hazardous/Unknown Materials:
1. Secure Area and Restrict Access
2. Position workers and bystanders upwind of the spill
3. Await Further instructions from the Hazmat Response Commander
4. Do Not Come In Contact With Materials

B) Petroleum Material Spills:
1. Stop source of spill when possible
2. Contain the spread of the spill
3. Use spill kits to begin cleanup operations

For spills where surface streams or sensitive features are in immediate threat of impact, block storm drains, roadside ditches, drainage culverts and surface pathways to open waters with

socks and pads or even soil if necessary, to prevent downstream impact.

For spills that reach surface streams or any sensitive features:

- Block flow of material with booms, socks, and adsorbent dams
- Deploy adsorbent pads and booms to water surface
- If necessary, dam roadside ditches and outlets with soil to prevent further spread of spilled material

For spills where soil is impacted by petroleum product:

- Contact Utility locaters for emergencies
- Wear appropriate PPE
- Excavate Contaminated Soil and Contact Environmental Staff for further instruction
- Contain all soil on plastic with a weighted plastic cover or in a sealed drum
- Segregate different kinds of wastes (e.g. battery acid, motor oil, diesel fuel)
- Apply Microbac for petroleum stains on highway and impacted soil areas

For Impermeable Surface Cleanup:

- Use Pads and Adsorbent
- Sweep Adsorbent into drums
- Dispose of pads into drums
- Document amount and type of material used

For Permeable Surface Cleanup:

- Call for emergency utility locate
- Use Pads and Socks for areas where pooling is observed
- Remove surficial contamination to a depth of no more than one foot below the surface
- Store all contaminated material on plastic
- Cover with plastic and await utility locate before excavating deeper than one foot below the surface

Attachment B – Potential Sources of Contamination

Potential pollutants include silt and sediment from construction disturbance. No other significant potential pollutants are anticipated on site. In the case of a spill, the procedures in Attachment A are to be followed.

Attachment C – Sequence of Major Activities

- Install temporary erosion controls and any tree/natural area protection fencing prior to pre-construction conference.
- Call TCEQ Edwards Aquifer Protection Program at (512) 339-2929 and Travis County at (512) 854-4621, 48 hours prior to beginning any work. Call TSS at 1-800-344-8377 for utility locations and obtain permit for any work within TxDOT right-of-way.
- Begin site clearing and grubbing.
- Perform trenching and line installation
- Initiate permanent erosion control.

- Remove temporary erosion controls when revegetation is complete.

Attachment D – Temporary Best Management Practices (TBMPs)
A stabilized construction entrance will be placed as shown on the erosion control sheet of the construction plans. Silt fences will be constructed at the downstream edge of disturbed areas. The CONTRACTOR will install the erosion/sedimentation controls prior to the start of any construction and will be responsible for maintaining the erosion control measures during construction. Minimal upgradient runoff enters the disturbed area and is largely sheet flow. There are no contributing drainage areas 10 acres or greater.

With no anticipated contaminants other than silt or sediment, the small area of disturbance, and the fact that the site is not in the recharge zone, the installed controls will prevent contamination of surface waters. No sensitive features occur nearby that might be affected by runoff from the site.

Attachment E – Request to Temporarily Seal a Feature
Being in the contributing zone and familiarity with the site, it is not anticipated that a feature exists that will require sealing.

Attachment F – Structural Practices
No defined floodplain exists on the site. Due to the small area, the silt fence will serve to prevent discharge of sediment.

Attachment G – Drainage Area Map
The Erosion and Sedimentation Control Plan and Drainage Area Map, Sheet 5 and 6 of the plans, shows contributing drainage areas, all which are less than 10 acres. Areas of sheet flow onto the construction are indicated by flow arrows. A copy of Sheets 5 and 6 is provided at the end of this section.

Attachment H – Temporary Sediment Pond(s) Plans and Calculations
N/A

Attachment I – Inspection and Maintenance for BMPs
1. Inspection Practices:
If the Owner/Operator does not designate or provide an agent to perform the required inspections and prepare and distribute the inspection reports, the CONTRACTOR(S) are each responsible for this task. If at some point during the project, an Operator/ CONTRACTOR(S) contract is complete, then all responsibilities will return first to any remaining Operator / CONTRACTORS and then to the Owner/Operator if there are no remaining Operator/ CONTRACTORS.

The inspector agent(s) that perform the inspections should be knowledgeable of this general permit, familiar with the construction site, and knowledgeable of the SWPPP for the site.

- The controls should be in good repair and functioning so that sediment and other potential pollutants remain on-site. Areas to be inspected include disturbed areas of the construction site that have not been finally stabilized, areas used for storage or materials that are exposed to precipitation, discharge locations, structural controls and locations where vehicles enter and exit the site. If installed, sediment basins/traps shall be inspected for sediment buildup and when it reaches one-foot, basins shall be cleaned.
- Owner/Operator or the CONTRACTORS (the entity who is providing the inspector) must choose one of the following inspection schedules to remain in compliance with the permit
  (a) Inspections must be conducted at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of ½ inches or greater. Please note that the 14-calendar day schedule does not restart when a storm event inspection is required.
  (b) Inspections must occur at least once every 7-calendar days regardless of when the last rainfall occurred, prior to predicted rainfall events, and within 24-hours of a storm event of ½ inches or greater.
- In the event of flooding or other uncontrollable situations that prohibit site access, inspections must be conducted as soon as practicable. Where sites have been finally or temporarily stabilized, where runoff is unlikely due to winter conditions inspections must be conducted once per month and during seasonal arid periods in arid and semi-arid areas, inspections must be conducted once every month and within 24 hours of the end of a storm event of ½ inches or greater.
- The designated inspector must prepare a written report for each inspection in accordance with the permit rules. Inspection reports must be distributed to all Primary and Secondary Operators.
- If the designated inspector or Operator determines that field conditions indicate that modifications to the plan are required, then such changes must be documented and indicated on a copy of the *Erosion and Sedimentation Control plan* that is kept at the designated location. A description of the need for modified controls shall be outlined on the appropriate inspection and maintenance report form. Necessary modifications to the plan and controls shall be completed within seven days following inspection.

2. <u>Maintenance/Repairs</u>:

- Repairs will be made to damaged areas as soon as practicable, preferably before the next anticipated storm event, after damage is discovered but no later than seven days after the inspection. If completion of the repairs before the next anticipated storm event is impracticable, the reason shall be documented in the SWPPP and maintenance scheduled ASAP. <u>If controls have been intentionally disabled, run-over, removed or otherwise rendered ineffective, repairs must ensue immediately upon discovery</u>. Records of repairs shall be recorded as part of the inspections on appropriate forms.
- The CONTRACTOR(S)/Operator will be responsible for ensuring maintenance of the erosion and sedimentation controls as described under Section B Part 2(a). If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts.

- Built-up sediment will be removed once it has reached a maximum depth of six inches at silt fences and rock berms.

3. Record Keeping:

Records of all components of the SWPPP including inspection, maintenance and plan modification forms, information used to complete the NOI form, and records of submittal of forms submitted to the MS4 or Secondary Operator, if any, should be retained for three (3) years after the date of final stabilization by all Primary and Secondary Operators. The CONTRACTOR(S) should keep the SWPPP and records of the construction activity on the site if possible or in the location posted on their Site Notice. The following dates should be recorded in the inspections reports in particular:

- The dates when major grading activities occur in a particular area.
- The dates when construction activities cease in an area, temporarily or permanently.
- The dates when an area is stabilized, temporarily or permanently.

Attachment J – Schedule of Interim and Permanent Soil Stabilization Practices

Due to the linear nature of the project, permanent soil stabilization, by establishment of permanent vegetation, will occur behind utility installation within 14 days of project completion after completion of each section of the project as it progress or as soon as practicable. Additionally, the runoff water drains to an established Water Quality Easement that was created with the platting of the development.

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

I Doug Connolly,
Print Name

President,
Title - Owner/President/Other

of Travis County MUD 4,
Corporation/Partnership/Entity Name

have authorized Bryce Canady, PE
Print Name of Agent/Engineer

of Murfee Engineering
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

9/19/2024
Date

THE STATE OF Texas §

County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Dave Connelly 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 19th day of September, 2024.

Sandra B. Swinney
NOTARY PUBLIC

SANDRA B. SWINNEY
Notary Public, State of Texas
Comm. Expires 03-23-2028
Notary ID 128931290

SANDRA B. SWINNEY
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 03-23-2028

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Amarra Dr Odor Control Vault
Regulated Entity Location: Amarra Dr & Carranzo Dr
Name of Customer: Travis County MUD 4
Contact Person: Doug Connolly Phone: 512 435 2300
Customer Reference Number (if issued):CN 601178940
Regulated Entity Reference Number (if issued):RN N/A
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
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	Tanks	$
Piping System(s)(only)	Each	$
Exception	1 Each	$ 500
Extension of Time	Each	$

Signature: _____ Date: 9/19/2024

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

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 601178940		RN

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:*

Travis County Municipal Utility District 4

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

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:

c/o Armbust & Brown
100 Congress Ave.
Suite 1300

City	Austin	State	TX	ZIP	78701	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

(512) 435-2301		( ) -

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.)*

Amarra Dr Odor Control Vault

23. Street Address of the Regulated Entity:	Near 4401 Amarra Dr Austin, TX 78735							
(No PO Boxes)	**City**	Austin	**State**	TX	**ZIP**	78735	**ZIP + 4**	
24. County	Travis							

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

25. Description to Physical Location:	The odor control vault will be located within the R.O.W. off of Amarra Dr, approximately 515 ft south of Carrazco Dr.

26. Nearest City	**State**	**Nearest ZIP Code**
Austin	TX	78735

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:	30°16'19.3"N		**28. Longitude (W) In Decimal:**	97°52'46.6"W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	16	19.3	97	52	46.6

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)
4959		562998	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Extract foul odor from the sewer network

34. Mailing Address:	**c/o Armbust &** **Brown 100 Congress Ave**							
	Suite 1300							
	City	**Austin**	**State**	**TX**	**ZIP**	**78701**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 435-2301		**( ) -**

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
☐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:

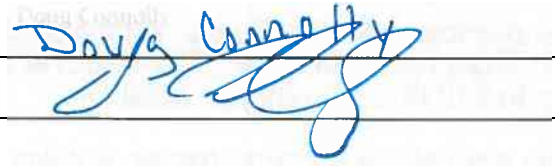
SECTION IV: Preparer Information

40. Name:	Bryce Canady, PE	41. Title:	District Engineer

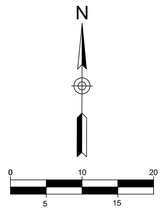
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 327-9204		(512) 327-9204	bcanady@murfee.com

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:	Travis County Municipal District No. 4	Job Title:	President	
Name *(In Print):*	Doug Connolly		Phone:	(512) 435- 2301
Signature:			Date:	9/19/2024

SDP ESC & Drainage Sheets



SCALE: 1"=10'

LEGEND

LOC	LIMITS OF CONSTRUCTION
SF	SILT FENCE
LOC/SF	LIMITS OF CONSTRUCTION/SILT FENCE
	TREE PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE
	TEMPORARY SPOILS SITE/STAGING AREA
	CONCRETE WASHOUT AREA
	TREE TO REMAIN
	TREE TO BE REMOVED
100	POINT LABEL

NOTES:
1. SILT FENCE TO BE PLACED ON UP-GRADIENT SIDE OF DISTURBANCE TO DIRECT RUNOFF AWAY FROM DISTURBANCE.
2. MULCH PROCESSED ON SITE MAY BE USED FOR TEMPORARY STABILIZATION.
3. CONTRACTOR SHALL PROVIDE MEANS OF WATERING FOR DUST CONTROL.
4. NO TREES TO BE REMOVED IN CONSTRUCTION STAGING AREA.
5. NO TREES SHALL BE REMOVED IN LAYING OF PIPE WITHOUT PRIOR APPROVAL FROM ENGINEER OR OWNER UNLESS NOTED ON THE PLANS.
6. INSTALL ORANGE CONSTRUCTION FENCING AT LIMITS OF CONSTRUCTION UNLESS SILT FENCE IS CALLED FOR IN THE PLANS.

NORTHING AND EASTING TABLE

POINT #	NORTHING	EASTING
1	228517.5795	2774615.4827
2	228516.7076	2774630.6482
3	228499.9067	2774629.6918
4	228500.6775	2774614.2883

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP. DATE

AMARRA DRIVE WASTEWATER ODOR TREATMENT UNIT

AUSTIN/TRAVIS COUNTY, TX

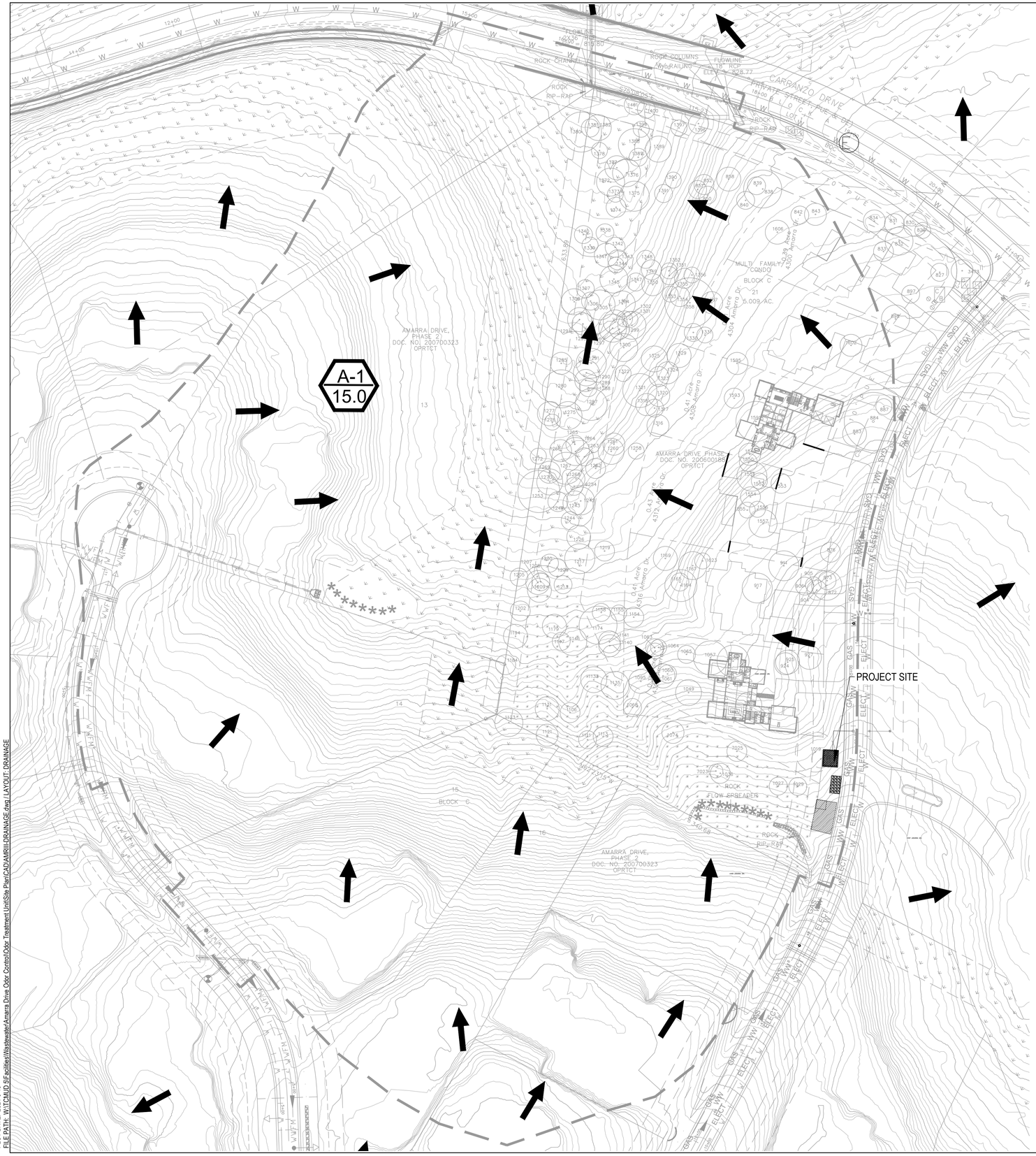
EROSION & SEDIMENTATION CONTROL

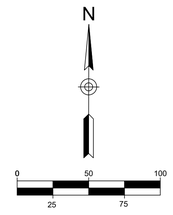
THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF CHEYENNE E. STOWERS, P.E. #144255, ON 9/13/2024. IT IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.

1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353
MURFEE ENGINEERING COMPANY

DESIGNED BY:	CES
DRAWN BY:	MRS
CHECKED BY:	JKB
APPROVED BY:	CES
DATE:	9/13/2024
FILE NO.	AMRIII-ESC.dwg
	LAYOUT: EROSION & SEDIMENTATION CONTROL
JOB NO.	
SHEET NO.	5 OF 10

PLOT DATE: 2024-9-13
FILE PATH: W:\TCM\D:\SFacilities\Wastewater\Amarra Drive Odor Control\Odor Treatment Unit\Site Plan\CAD\AMRIII-ESC.dwg / LAYOUT: EROSION & SEDIMENTATION CONTROL





SCALE: 1"=50'

LEGEND

- PROPERTY BOUNDARY
- FENCE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- VEGETATIVE FILTER STRIP
- EXISTING DRAINAGE BOUNDARY
- EX XX — DRAINAGE AREA W/ ACREAGE
- FLOW ARROW / DISCHARGE POINTS

PROJECT: AMARRA DR ODOR CONTROL UNIT

CALCULATION OF IMPERVIOUS COVER FOR RUNOFF

Condition	Drainage Basin	Total Area (AC)	IC (AC)	Imperv. Cover (%)
EXISTING	A-1 EX	15.00	2.530	16.87%
PROPOSED	A-1 PR	15.00	2.536	16.91%

RUNOFF COEFFICIENT CALCULATIONS								
AREA	TOTAL (ACRES)	% IMP. COVER	IMPERV. (ACRES)	PERVIOUS (ACRES)	2 YEAR	10 YEAR	25 YEAR	100 YEAR
A-1 EX	15.00	16.87%	2.53	12.47	0.37	0.43	0.47	0.54
A-1 PR	15.00	16.91%	2.54	12.46	0.37	0.43	0.47	0.54

DA	ToC	2-yr	10-yr	25-yr	100-yr
A-1 EX	7.1	5.70	8.66	10.62	13.86
A-1 PR	7.1	5.70	8.66	10.62	13.86

CALCULATION OF STORMWATER RUNOFF

AREA	AC	t(c) (min.)	C(2)	I(2)	Q(2)	C(10)	I(10)	Q(10)	C(25)	I(25)	Q(25)	C(100)	I(100)	Q(100)
A-1 EX	15.0	7.1	0.37	5.70	31.29	0.43	8.66	55.74	0.47	10.62	75.03	0.54	13.86	113.20
A-1 PR	15.0	7.1	0.37	5.70	31.30	0.43	8.66	55.77	0.47	10.62	75.06	0.54	13.86	113.24

NOTE:

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN APPROVING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NO.	DESCRIPTION	BY	DATE	APPROVED	APP.DATE

AMARRA DRIVE
WASTEWATER ODOR TREATMENT UNIT
AUSTIN/TRAVIS COUNTY, TX

DRAINAGE

MURFEE ENGINEERING COMPANY
1101 CAPITAL OF TEXAS HIGHWAY SOUTH
BUILDING D, SUITE 110
AUSTIN, TEXAS 78746
(512) 327-9204
Texas Registered Engineering Firm F-353

DESIGNED BY: CES
DRAWN BY: MRS
CHECKED BY: JKB
APPROVED BY: CES
DATE: 9/13/2024

FILE NO. AMRIII-DRAINAGE.dwg LAYOUT: DRAINAGE

JOB NO.

SHEET NO. 6 OF 10

PLOT DATE: 2024-9-13
FILE PATH: W:\TCMUD 5\Facilities\Wastewater\Amarra Drive Odor Control\Odor Treatment Unit\Site Plan\CAD\AMRIII-DRAINAGE.dwg | LAYOUT: DRAINAGE