TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CONTRIBUTING ZONE PLAN MODIFICATION

FOR

BARTON CREEK SECTIONS K, L, AND O PHASE 1

APRIL 2024

PREPARED FOR

HOLDEN HILLS, L.P. 212 LAVACA STREET, SUITE 300 AUSTIN, TEXAS 78701 512-478-5788

PREPARED BY

LJA ENGINEERING, INC. 7500 RIALTO BLVD BUILDING II, SUITE 100 AUSTIN, TEXAS 78735 (512) 439-4700 FIRM NO. F-1386



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 <u>30 TAC 213</u>.

Administrative Review

1. <u>Edwards Aquifer applications</u> 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: <u>http://www.tceq.texas.gov/field/eapp</u>.

- 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: Barton Creek Sections K, L, & O Phase 1				2. Regulated Entity No.: 111435921				
3. Customer Name: Holden Hills., L.F		Р.		4. Customer No.: CN606123644			123644	
5. Project Type: (Please circle/check one)	New	Modif	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-r	Non-residential 8. S		8. Sit	e (acres):	341.51 acres	
9. Application Fee:	\$10,000	10. P	10. Permanent BMP(s		s):	Sedimentation/Filtration		
11. SCS (Linear Ft.):	N/A	12. AST/UST (No. Tanks):			nks):	N/A		
13. County:	Travis	14. W	14. Watershed:				Barton Creek	

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.)		_ <u>X</u> _		
Region (1 req.)		_ <u>X</u> _		
County(ies)		_ <u>X</u> _	_	
Groundwater Conservation District(s)	Edwards Aquifer Authority Barton Springs/ Edwards Aquifer Hays Trinity Plum Creek	<u>X_</u> 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.)		_			
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.

Print Name of Customer/Authorized Agent

Signature of Customer/Authorized Agent

3/15/24 Date

**FOR TCEQ INTERNAL USE ONLY*	**		
Date(s)Reviewed:	Date Administratively Complete:		
Received From:	Correct Number of Cop	pies:	
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 Verificat	tion:	
Agent Authorization Complete/Notarized (Y/N):	Payable to TO	CEQ (Y/N):	
Core Data Form Complete (Y/N):	Check: Signed (Y/N)):	
Core Data Form Incomplete Nos.:	Less than 90	days old (Y/N):	

Modification of a Previously Approved Contributing Zone Plan Checklist

- **<u>X</u>** Edwards Aquifer Application Cover Page (TCEQ-20705)
- $\frac{X}{2}$ Modification of a Previously Approved Contributing Zone Plan Form (TCEQ-10259)

Attachment A - Original Approval Letter and Approved Modification Letters Attachment B - Narrative of Proposed Modification Attachment C - Current site plan of the approved project

- \underline{X} Contributing Zone Plan Application (TCEQ-10257)
- $\frac{X}{2}$ Storm Water Pollution Prevention Plan (SWPPP)

-OR-

- Temporary Stormwater Section (TCEQ-0602)
- Copy of Notice of Intent (NOI)
- **X** Agent Authorization Form (TCEQ-0599), if application submitted by agent
- **<u>X</u>** Application Fee Form (TCEQ-0574)
- Check Payable to the "Texas Commission on Environmental Quality"
- \underline{X} Core Data Form (TCEQ-10400)

Modification of a Previously Approved Contributing Zone Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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 **Modification of a Previously Approved Contributing Zone Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Lauren Crone, P.E.

Date: 3/15/24

Signature of Customer/Agent:

Lawen Geore

Project Information

 Current Regulated Entity Name: <u>Barton Creek Sections K, L, and O Phase 1</u> Original Regulated Entity Name: <u>Barton Creek Sections K, L, and O Phase 1</u> Assigned Regulated Entity Number(s) (RN): <u>RN111435921</u>

Edwards Aquifer Protection Program ID Number(s): <u>11002939</u>

The applicant has not changed and the Customer Number (CN) is: 606123644

The applicant or Regulated Entity has changed. A new Core Data Form has been provided.

- 2. X Attachment A: Original Approval Letter and Approved Modification Letters. A copy of the original approval letter and copies of any modification approval letters are attached.
- 3. A modification of a previously approved plan is requested for (check all that apply):

 Any physical or operational modification of any best management practices or structure(s), including but not limited to temporary or permanent ponds, dams, berms, silt fences, and diversionary structures;
 Any change in the nature or character of the regulated activity from that which was

originally approved;

A change that would significantly impact the ability to prevent pollution of the Edwards Aquifer and hydrologically connected surface water; or

Any development of land previously identified in a contributing zone plan as undeveloped.

4. Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

CZP Modification	Approved Project	Proposed Modification
Summary		
Acres	<u>341.51</u>	<u>341.51</u>
Type of Development	<u>Residential</u>	<u>Residential</u>
Number of Residential	<u>367</u>	<u>367</u>
Lots		
Impervious Cover (acres)	<u>17.95</u>	<u>17.95</u>
Impervious Cover (%)	<u>5.26</u>	<u>5.26</u>
Permanent BMPs	Retention/Irrigation	Sedimentation/filtration
Other	<u>N/A</u>	
AST Modification	Approved Project	Proposed Modification
Summary		
Number of ASTs		
Other		
UST Modification	Approved Project	Proposed Modification
Summary		
Number of USTs		
Other		

5. Attachment B: Narrative of Proposed Modification. A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved,

including previous modifications, and how this proposed modification will change the approved plan.

6.	Attachment C: Current Site Plan of the Approved Project. A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
	any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
	The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
	The approved construction has commenced and has been completed. Attachment C illustrates that the site was not constructed as approved.
	The approved construction has commenced and has not been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
	The approved construction has commenced and has not been completed. Attachment C illustrates that, thus far, the site was not constructed as approved.
7.	 Acreage has not been added to or removed from the approved plan. Acreage has been added to or removed from the approved plan and is discussed in Attachment B: Narrative of Proposed Modification.
8.	Submit one (1) original and one (1) copy of the application, plus additional copies as

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

ATTACHMENT A – ORIGINAL APPROVAL LETTER AND APPROVED MODIFICATION LETTERS

Jon Niermann, *Chairman* Emily Lindley, *Commissioner* Bobby Janecka, *Commissioner* Toby Baker, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 13, 2022

Ms. Erin Pickens Stratus Properties Operating Co., L.P. 212 Lavaca Street, Suite 300 Austin, Texas 78701-3955

Re: Edwards Aquifer, Travis County

NAME OF PROJECT: Barton Creek Sections K, L, and O Phase 1; Located from Tacoma Circle to Lost Creek Blvd; ETJ of Austin, Texas

TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer

Regulated Entity No. RN111435921; Additional Program ID No. 11002939

Dear Ms. Pickens:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the above-referenced project submitted to the Austin Regional Office by LIA Engineering, Inc. on behalf of Stratus Properties Operating Co., L.P. on February 17, 2022. Final review of the CZP was completed after additional material was received on May 4, 2022. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) were selected, and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer Protection Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.

PROJECT DESCRIPTION

The proposed commercial project will have an area of approximately 341.51 acres. It will include 12 single-family lots, 2 landscape lots and 1 Open Space lot, 9 multi-family lots, 1 Water Quality lot and spray-irrigation fields, drainage, and roadway improvements. The impervious cover will be 17.95 acres (5.26 percent). Project wastewater will be disposed of by conveyance to the existing Travis County MUD No. 4 South Water Recycling Center owned by the Travis County MUD No. 4.

TCEQ Region 11 · P.O. Box 13087 · Austin, Texas 78711-3087 · 512-339-2929 · Fax 512-339-3795

Ms. Erin Pickens Page 2 May 13, 2022

PERMANENT POLLUTION ABATEMENT MEASURES

To prevent the pollution of stormwater runoff originating on-site or upgradient of the site and potentially flowing across and off the site after construction, three retention ponds with irrigation fields, designed using the TCEQ technical guidance document, <u>Complying with the Edwards Aquifer Rules: Technical Guidance on Best Management Practices (2005)</u>, will be constructed to treat stormwater runoff. The required total suspended solids (TSS) treatment for this project is 15,624 pounds of TSS generated from the 17.95-acres of impervious cover. The approved measures meet the required 80 percent removal of the increased load in TSS caused by the project.

The individual treatment measures will consist of three retention ponds (A, B, and C) with a combined water quality volume of 204,209 cubic-feet, each with dedicated spray irrigation fields totaling 4.43-acres.

SPECIAL CONDITIONS

- I. All permanent pollution abatement measures shall be operational prior to occupancy of the facility.
- II. All sediment and/or media removed from the water quality basins during maintenance activities shall be properly disposed of according to 30 TAC 330 or 30 TAC 335, as applicable.

STANDARD CONDITIONS

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

Prior to Commencement of Construction:

- 4. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved Contributing Zone Plan and this notice of approval shall be maintained at the project location until all regulated activities are completed.
- 5. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.
- 6. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and file number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.

Ms. Erin Pickens Page 3 May 13, 2022

7. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established, and the construction area is stabilized. If a water quality pond is proposed, it shall be used as a sedimentation basin during construction. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

- 8. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
- 9. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. 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).
- 10. Intentional discharges of sediment laden water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.
- 11. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 12. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.
- 13. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment. Refer to Standard Condition No. 5, above.

After Completion of Construction:

- 14. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the Austin Regional Office within 30 days of site completion.
- 15. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive

Ms. Erin Pickens Page 4 May 13, 2022

director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

- 16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Contributing Zone Plan. If the new owner intends to commence any new regulated activity on the site, a new Contributing Zone Plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
- 17. A Contributing Zone Plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
- 18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality. If you have any questions or require additional information, please contact the Edwards Aquifer Protection Program Austin Regional Office at 512-339-2929.

Sincerely,

Lillian Butles

Lillian Butler, Section Manager Edwards Aquifer Protection Program Texas Commission on Environmental Quality

LIB/dv

Enclosures: Change in Responsibility for Maintenance of Permanent BMPs, Form TCEQ-10263

cc: Ms. Lauren Crone, PE, LJA Engineering, Inc.

ATTACHMENT B – Project Narrative of Proposed Modification

In previous the previous application, Barton Creek Sections K, L, and O Phase 1 was a proposed 341.51 acre single-family development consisting of 12 single family lots; 2 Landscape lots; 1 Open Space, Drainage and WQE lot; and 9 MF/Condo lots. Each of the condo/multi-family lots will provide their own CZP submittal and proposed BMPs. The development will include paved roads, concrete sidewalks, utilities that will include water, wastewater, and drainage, and dry utilities. A lift station will also be constructed as well as a wastewater force main to convey wastewater from the Barton Creek Sections K, L, and O Phase 1 site to the Travis County MUD 4 South WWTP, operated by Travis County MUD No. 4. The limits of construction consists of 52.33 acres. The proposed impervious cover equals 5.26 percent of the site area.

The project is bounded on the north by Lost Creek Country Club, the west by Barton Creek Section J, Phase 2, the east by City of Austin property/Gaines Ranch/Regents and the south by Barton Creek Section N.

In the previous application, water quality would be provided by three retention/irrigation ponds. The modification of these ponds will be a conversion to three sedimentation/filtration ponds. These will treat Water Quality Areas A, B, and C. The modification is proposed because the project is no longer within the City of Austin Extra-Territorial Jurisdiction and thus, no longer is required to implement retention/irrigation ponds.

ATTACHMENT C – CURRENT SITE PLAN OF THE APPROVED PROJECT



, 11, 02,

Apr.

C5- REPLACEMENT SHEET

Contributing Zone Plan Application

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 Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Lauren Crone, P.E.

Date: <u>4/2/2024</u>

Signature of Customer/Agent:

awen bere

Regulated Entity Name: Barton Creek Section K, L & O

Project Information

- 1. County: Travis
- 2. Stream Basin: Barton Creek
- 3. Groundwater Conservation District (if applicable):
- 4. Customer (Applicant):

Contact Person: Erin PickensEntity: Holden Hills LPMailing Address: 212 Lavaca Street, Suite 300City, State: Austin, TXZip: 78701Telephone: 512-478-5788Email Address: epickens@stratusproperties.com

TCEQ-10257 (Rev. 02-11-15)

1 of 11

5. Agent/Representative (If any):

Contact Person: Lauren Crone, P.E.Entity: LJA Engineering, Inc.Mailing Address: 7500 Rialto Boulevard, Building II, Suite 100City, State: Austin, TXZip: 78735Telephone: 512-439-4700Fax: _____Email Address: Icrone@lja.com

6. 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 _____.

The project site is not located within any city's 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.

<u>The project is bounded on the north by Lost Creek Boulevard, the west by Barton Creek</u> <u>Section J, Phase 2, the east by City of Austin property/Gaines Ranch/Regents and the</u> <u>south by Barton Creek Section N.</u>

- 8. Attachment A Road Map. A road map showing directions to and the 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 official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') is attached. The map(s) clearly show:

Project site boundaries.
 USGS Quadrangle Name(s).

10. Attachment C - Project Narrative. A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

\boxtimes	Area of the site
\boxtimes	Offsite areas
\square	Impervious cove

 \times Impervious cover $\overline{\times}$ Permanent BMP(s)

 \times Proposed site use

 $\overline{\times}$ Site history

 $\overline{\times}$ 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. The type of project is:

Residential: # of Lots: _____
 Residential: # of Living Unit Equivalents: <u>367</u>
 Commercial
 Industrial
 Other: _____

13. Total project area (size of site): <u>341.51</u> Acres

Total disturbed area: <u>52.33</u> Acres

- 14. Estimated projected population: N/A
- 15. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
Structures/Rooftops	607,662	÷ 43,560 =	13.95
Parking		÷ 43,560 =	
Other paved surfaces	174,240	÷ 43,560 =	4.0
Total Impervious Cover		÷ 43,560 =	

Table 1 - Impervious Cover

Total Impervious Cover <u>17.95</u> ÷ Total Acreage <u>341.51</u> X 100 = <u>5.23</u>% Impervious Cover

- 16. Attachment D Factors Affecting Surface Water Quality. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.
- 17. 🛛 Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

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N/A

18. Type of project:

TXDOT road project. County road or roads built to county specifications. City thoroughfare or roads to be dedicated to a municipality. Street or road providing access to private driveways. 19. Type of pavement or road surface to be used: Concrete Asphaltic concrete pavement Other: 20. Right of Way (R.O.W.): Length of R.O.W.: _____ feet. Width of R.O.W.: _____ feet. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$ 21. Pavement Area: Length of pavement area: _____ feet. Width of pavement area: _____ feet. $L \times W = Ft^2 \div 43,560 Ft^2/Acre = acres.$

Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = ____% impervious cover.

22. A rest stop will be included in this project.

A rest stop will not be included in this project.

23. Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

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

Wastewater to be generated by the Proposed Project

25. Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

🖂 N/A

26. Wastewater will be disposed of by:

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

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

Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

Sewage Collection System (Sewer Lines):

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

Existing.
Proposed.

N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			

Total x 1.5 = ____ Gallons

5 of 11

28. 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 G - Alternative Secondary Containment Methods. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

Length (L)(Ft.)	Width(W)(Ft.)	Height (H)(Ft.)	L x W x H = (Ft3)	Gallons
		•	Т	otal: Gall

Table 3 - Secondary Containment

30. Piping:

] 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

- 31. 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:
- 32. Attachment H AST Containment Structure Drawings. A scaled drawing of the containment structure is attached that shows the following:
 -] 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

33. 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.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

34. \square The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = <u>40</u>'.

35. 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): _____.

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

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

- 37. \square A drainage plan showing all paths of drainage from the site to surface streams.
- 38. 🖂 The drainage patterns and approximate slopes anticipated after major grading activities.
- 39. \boxtimes Areas of soil disturbance and areas which will not be disturbed.
- 40. 🔀 Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.
- 41. 🛛 Locations where soil stabilization practices are expected to occur.
- 42. Surface waters (including wetlands).

🗌 N/A

43. 🛛 Locations where stormwater discharges to surface water.

There will be no discharges to surface water.

44. Temporary aboveground storage tank facilities.

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Temporary aboveground storage tank facilities will not be located on this site.

45. Permanent aboveground storage tank facilities.

Permanent aboveground storage tank facilities will not be located on this site.

46. \square Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

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

🗌 N/A

- 48. These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.
 - The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.
 - A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____.

N/A

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



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

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

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

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

- 51. The executive director may waive the requirement for other permanent BMPs for multifamily residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.
 - Attachment I 20% or Less Impervious Cover Waiver. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
 - The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
 - The site will not be used for multi-family residential developments, schools, or small business sites.

52. X Attachment J - BMPs for Upgradient Stormwater.

- A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.
- No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.
- Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

53. X Attachment K - BMPs for On-site Stormwater.

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

Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

- 54. Attachment L BMPs for Surface Streams. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.
 - N/A
- 55. Attachment M Construction Plans. Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and

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dated. Construction plans for the proposed permanent BMPs and measures are attached and include: Design calculations, TCEQ Construction Notes, all proposed structural plans and specifications, and appropriate details.

N/A

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

🗌 N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

- 59. The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.
- 60. \square A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a

multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

Administrative Information

- 61. 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.
- 62. Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.
- 63. The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.
 - The Temporary Stormwater Section (TCEQ-0602) is included with the application.

ATTACHMENT A – Road Map



ATTACHMENT B – USGS Quadrangle Map

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



AUSTIN WEST QUADRANGLE TEXAS - TRAVIS COUNTY 7.5-MINUTE SERIES





ATTACHMENT B – Project Narrative of Proposed Modification

In previous the previous application, Barton Creek Sections K, L, and O Phase 1 was a proposed 341.51 acre single-family development consisting of 12 single family lots; 2 Landscape lots; 1 Open Space, Drainage and WQE lot; and 9 MF/Condo lots. Each of the condo/multi-family lots will provide their own CZP submittal and proposed BMPs. The development will include paved roads, concrete sidewalks, utilities that will include water, wastewater, and drainage, and dry utilities. A lift station will also be constructed as well as a wastewater force main to convey wastewater from the Barton Creek Sections K, L, and O Phase 1 site to the Travis County MUD 4 South WWTP, operated by Travis County MUD No. 4. The limits of construction consists of 52.33 acres. The proposed impervious cover equals 5.26 percent of the site area.

The project is bounded on the north by Lost Creek Country Club, the west by Barton Creek Section J, Phase 2, the east by City of Austin property/Gaines Ranch/Regents and the south by Barton Creek Section N.

In the previous application, water quality would be provided by three retention/irrigation ponds. The modification of these ponds will be a conversion to three sedimentation/filtration ponds. These will treat Water Quality Areas A, B, and C. The modification is proposed because the project is no longer within the City of Austin Extra-Territorial Jurisdiction and thus, no longer is required to implement retention/irrigation ponds.

ATTACHMENT D – Factors Affecting Surface Water Quality

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing operations
- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping operation

Potential sources other than sediment:

- small fueling activities
- minor equipment maintenance
- sanitary facilities
- solvents, adhesives, paints, etc.
- paving materials, concrete, mortar

ATTACHMENT E – Volume and Character of Stormwater

Due to a watershed divide located on site, the property drains to the south and to the northeast. Approximately 13.4 acres drain south towards Sycamore Creek. The remaining acreage drains to the northeast towards Barton Creek. Approximately 9.2 acres of upgradient stormwater is conveyed onto the property from the west. The proposed development will cause an increase in runoff due to impervious cover and reduced time of concentration; however, that increase will be offset through a water quality ponds. The water quality calculations to demonstrate the removal of the minimum

eighty percent (80%) pollutant load for the developed site are provided following these attachments.

Runoff coefficients for the 25-year and 100-year events before construction are estimated to be 0.36 and 0.46, respectively. The post construction runoff coefficients are expected to be 0.56 and 0.64, respectively.

As a result of these measures, the volume and character of the stormwater runoff from the site will be effectively unchanged from predevelopment levels.

ATTACHMENT F – Suitability Letter from Authorized Agent (if OSSF is proposed)

Not Applicable.

ATTACHMENT G – Alternative Secondary Containment Methods (if AST with an alternative method of secondary containment is proposed)

Not Applicable.

ATTACHMENT H – AST Containment Structure Drawings (if AST is proposed)

Not Applicable.

ATTACHMENT I – 20% or Less Impervious Cover Waiver

Not Applicable.

ATTACHMENT J – BMPs for Upgradient Stormwater

Due to a watershed divide located on site, the property drains to the south and to the northeast. Approximately 13.4 acres drain south towards Sycamore Creek. The remaining acreage drains to the northeast towards Barton Creek. Approximately 9.2 acres of upgradient stormwater is conveyed into the property from the west into the proposed section. 0.7 acres of impervious cover is included within the 9.2 acres of upgradient stormwater.

ATTACHMENT K – BMPs for On-Site Stormwater

Temporary Controls: Prior to site clearing, grading and excavation, the stabilized construction entrance will be installed, tree protection/limit of construction fencing will be installed, and silt fencing and rock berms will be installed at the downstream edge of disturbed areas where shallow sheet runoff occurs. Rock berms will be placed where more concentrated flow occurs. The water quality ponds will act as a sediment trap for the project. There are 52.33 acres of disturbed area draining to the sediment trap while under construction. 3,600 c.f. of storage volume is required per acre of disturbed area; therefore 188,388 c.f. of volume is required in the sediment trap. 204,209 c.f. of volume is provided by the sediment trap. During all aspects of construction, the contractor shall maintain these controls. The contractor will be responsible for stabilization practices (revegetation). The contractor will be responsible for removing the temporary controls once the revegetation is established.

Permanent Controls: After construction there will be runoff from building surfaces, paved areas and managed lawn/landscape areas. These areas will be mitigated by permanent revegetation of disturbed areas and through use of three retention/irrigation ponds. There are three water quality areas in the Barton Creek Sections K, L, and O Phase 1 subdivision. The provided water quality volume is 204,209 cf.

ATTACHMENT L – BMPs for Surface Streams

Temporary Controls: Prior to site clearing, grading and excavation, the stabilized construction entrance will be installed, tree protection/limit of construction fencing will be installed, and silt fencing and rock berms will be installed at the downstream edge of disturbed areas where shallow sheet runoff occurs. Rock berms will be placed where more concentrated flow occurs. The water quality ponds will act as a sediment trap for the project. There are 52.33 acres of disturbed area draining to the sediment trap while under construction. 3,600 c.f. of storage volume is required per acre of disturbed area; therefore 188,388 c.f. of volume is required in the sediment trap. 204,209 c.f. of volume is provided by the sediment trap. During all aspects of construction, the contractor shall maintain these controls. The contractor will be responsible for stabilization practices (revegetation). The contractor will be responsible for removing the temporary controls once the revegetation is established.

Permanent Controls: After construction there will be runoff from building surfaces, paved areas and managed lawn/landscape areas. These areas will be mitigated by permanent revegetation of disturbed areas and through use of three retention/irrigation detention ponds. There are three water quality areas in the Barton Creek K, L, and O Phase 1 subdivision. The required water quality volume is 159,577 cf. The provided water quality volume is 204,209 cf.

ATTACHMENT M – Construction Plans

Copies of the construction plans are included with this submittal.

ATTACHMENT N – Inspection, Maintenance, Repair, and Retrofit Plan

See attached document labeled "Maintenance Plan for Permanent Best Management Practices for Barton Creek Sections K, L, and O Phase 1".

ATTACHMENT O – Pilot-Scale Field Testing Plan, if BMPs not based on Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs

Not Applicable

ATTACHMENT P – Measures for Minimizing Surface Stream Contamination

Temporary Controls: Prior to site clearing, grading and excavation, the stabilized construction entrance will be installed, tree protection/limit of construction fencing will be installed, and silt fencing and rock berms will be installed at the downstream edge of disturbed areas where shallow sheet runoff occurs. Rock berms will be placed where more concentrated flow occurs. The water quality ponds will act as a sediment trap for the project. There are 52.33 acres of disturbed area draining to the sediment trap while under construction. 3,600 c.f. of storage volume is required per acre of disturbed area;

therefore 188,388 c.f. of volume is required in the sediment trap. 204,209 c.f. of volume is provided by the sediment trap. During all aspects of construction, the contractor shall maintain these controls. The contractor will be responsible for stabilization practices (revegetation). The contractor will be responsible for removing the temporary controls once the revegetation is established.

Permanent Controls: After construction there will be runoff from building surfaces, paved areas and managed lawn/landscape areas. These areas will be mitigated by permanent revegetation of disturbed areas and through use of three retention/irrigation detention ponds. There are three water quality areas in the Barton Creek K, L, and O Phase 1 subdivision. The required water quality volume for the drainage areas is 159,577 cf. The provided water quality volume is 204,209 cf.
ATTACHMENT N – Inspection, Maintenance, Repair and Retrofit Plan

Maintenance Plan For Permanent Best Management Practices Barton Creek Development – Sections K, L, and O Phase 1

PROJECT NAME:Barton Creek Development – Sections K, L, and O Phase 1ADDRESS:3101 Lost Creek BlvdCITY, STATE ZIP:Austin, TX 78746

The Best Management Practices associated with Water Quality for this project includes the use of vegetative filter strips and batch detention ponds.

MAINTENANCE FOR VEGETATED BMPS

Routine Maintenance for All Vegetated BMPs

Once a vegetated area is well established, little additional maintenance is generally necessary. The key to establishing a viable vegetated feature is the care and maintenance it receives in the first few months after it is planted. Once established, all vegetated BMPs require some basic maintenance to insure the health of the plants including:

All vegetated BMPs shall be inspected twice annually for erosion or damage to vegetation. Additional inspections after periods of heavy runoff is most desirable.

Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored. Construction of a level spreader device may be necessary to re-establish shallow overland flow.

Sediment built up in vegetated BMPs, especially along the upstream boundary and in the level spreader, must be removed during semi-annual inspections.

If level spreaders are needed, they shall be inspected at least semi-annually and repairs made as necessary.

Irrigation system shall be inspected at least semi-annually during operation. Maintenance and spray adjustments shall occur to maintain proper operation.

MAINTENANCE FOR SENSITIVE FEATURES AND BUFFER AREAS

Routine Maintenance for All Sensitive Features and Buffer Areas

All sensitive features and buffer areas shall be inspected twice annually for erosion or damage to vegetation or the feature itself. Additional inspections after periods of heavy runoff is most desirable.

Bare spots and areas of erosion or damage to the feature identified during semi-annual inspections must be replanted and restored to natural conditions. Excessive sediment build up must also be removed during semi-annual inspections. Debris and litter accumulated must also be removed.

Protective fences around buffer areas shall be inspected during semi-annual inspections to ensure damage has not occurred.

MAINTENANCE FOR STRUCTURAL (STORMWATER CAPTURE) SYSTEMS

Routine Maintenance for All Structural Systems

Water quality ponds of all types have similar routine maintenance requirements, although most ponds have some unique maintenance needs, as detailed in this section. The following general maintenance requirements apply to all pond BMPs.

BMP facilities must be inspected at least six times per year (twice during or immediately following wet weather) to evaluate facility operation.

During each inspection, erosion areas inside and downstream of the BMP must be identified and repaired or revegetated immediately.

Grass areas in and around earthen ponds must be mowed at least twice annually to limit vegetation height to 18 inches. More frequent mowing to maintain aesthetic appeal may be necessary in landscaped areas. When mowing of grass is performed, a mulching mower must be used, or grass clippings must be caught and removed, as with all water quality BMPs.

Debris and litter accumulated in the facility must be removed during each inspection.

Excessive sediment must be removed and properly disposed of in an approved off-site disposal area. Remove excessive sediment at least two times per year or when accumulations reach 3 inches in depth.

Design drawdown times must not be exceeded by more than 24 hours. The design drawdown time is 72 hours from the first accumulation of stormwater or when the pond reaches full capacity. If drawdown times are excessive, repairs should occur immediately.

With each inspection, any damage to the structural elements of the system (pipes, concrete drainage structures, gabions, retaining walls, etc.) must be identified and repaired immediately.

A maintenance access route shall extend to the pond from a public or private road. The maintenance access shall have a slope of no greater than 15 percent.

Inlet and outlet structures should be inspected and cleaned out of any debris or sediment. If there are major damage to either the inlet or outlet controls, the damaged areas should be repaired.

RECORD KEEPING OF INSPECTIONS, MAINTENANCE AND REPAIRS SHALL BE MAINTAINED BY THE RESPONSIBLE PARTY.

An amended copy of this document will be provided to the Texas Commission on Environmental Quality within thirty (30) days of any changes in the following information.

Responsible Party for Maintenance: Holden Hills, L.P.

Address:

212 Lavaca Street, Suite 300

City, State Zip:

Austin, Texas 78701

Telephone Number:

(512) 478-5788

Signature of Responsible Party Erin D. Pickens, Senior Vice President

2505/r

Date

BARTON CREEK SECTIONS K, L, AND O PHASE 1

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

STORMWATER POLLUTION PREVENTION PLAN

FEBRUARY 2024

Prepared for:

STRATUS PROPERTIES OPERATING CO., L.P. 212 LAVACA STREET, SUITE 300 Austin, Texas 78701 (512) 477-2400

Prepared by:

LJA ENGINEERING, INC. 7500 RIALTO BLVD., BUILDING II SUITE 100 AUSTIN, TEXAS 78735 (512) 439-4700 FRN-F-1386

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BARTON CREEK SECTIONS K, L AND O, PHASE 1

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

STORMWATER POLLUTION PREVENTION PLAN

A. SITE DESCRIPTION

- BARTON CREEK SECTIONS K, L, AND O PHASE 1 1. Project Name:
- The project is bounded on the north by Lost Creek Country Club, the 2. Location: west by Barton Creek Section J, Phase 2, the east by City of Austin property/Gaines Ranch/Regents and the south by Barton Creek Section N. (see Exhibit 1).
- Stratus Properties Operating Co., L.P. (Plans and Specifications) 3. Facility Operators: 212 Lavaca Street Austin, Texas 78701 512-478-5788
 Date N.O.I. submitted:
 General Permit Authorization No.:

_____(Contractor)

Date N.O.I. submitted:

General Permit Authorization No.:

- 4. Property Owner: Stratus Properties Operating Co., L.P. 212 Lava<u>ca Street____</u> Austin, Texas 78701 512-478-5788
- 5. Project Description: Barton Creek Sections K, L, and O Phase 1 is a proposed 341.51 acre development that will consist of single family homes and condos. The development will include a paved drive, concrete sidewalks, utilities that will include water, wastewater, and drainage, and dry utilities. The limits of construction consists of 341.51 acres. The proposed impervious cover equals 34.37 acres or 10.06% of the site area. The site is located in the Bear Creek Watershed. The property drains toward the north with overland conditions to Spring Hollow Creek, which flows into Bear Creek.
- 6. Site Area: The construction limits and disturbance caused by construction will include approximately 52.33 acres.
- 7. Runoff Coefficient: Currently, the site area for the Barton Creek Sections K, L, and O Phase 1 property is represented by a composite 25-year and 100-year runoff coefficient of 0.39 and 0.46, respectively. After construction is completed, the composite 25-year and 100year runoff coefficient will be 0.56 and 0.64, respectively.

8. <u>Existing Soils</u>: According to the USDA Soil Survey of Travis County, the soil classifications within the proposed subdivision are Real-Comfort-Doss (RcD), Brackett-Rock outcrop-Comfort (BtD) Bolar Clay (BrB) and Anhalt Clay (AnB).

Real-Comfort-Doss (RcD): This gently sloping soil is mostly on the low hills and ridges on uplands in the Edwards Plateau. Typically this soil has a dark brown gravelly loam about 8 inches thick. The subsoil, which extends down to a depth of about 12 inches, is reddish brown clay that is about 15 percent limestone and caliche gravel. The underlying material is weakly cemented limestone interbedded with thin layers of indurated limestone. The soil is moderately alkaline. The soil is well drained. Permeability is moderate and surface runoff is medium to rapid. The available water capacity is very low.

Brackett-Rock outcrop-Comfort (BtD): This gently sloping soil is mostly on the on uplands in the Edwards Plateau. Typically this soil has a greyish brown gravelly clay loam about 6 inches thick. The subsoil, which extends down to a depth of about 17 inches, is pale brown and pale yellow gravelly clay loam. The underlying material is weakly cemented limestone interbedded with thin layers of indurated limestone. The soil is moderately alkaline. The soil is well drained. Permeability is moderately slow and surface runoff is medium to rapid. The available water capacity is very low.

Bolar Clay (BrB): This gently sloping to moderately steep soil is mostly on the on uplands in the Edwards Plateau. Typically this soil has a dark grayish brown clay loam about 14 inches thick. The subsoil, which extends down to a depth of about 28 inches, is brown clay loam that is about 50 percent calcium carbonate indurated limestone interbedded with marl. The soil is moderately alkaline. The soil is well drained. Permeability is moderate and surface runoff is medium. The available water capacity is low.

Anhalt Clay (AnB): This is a nearly level soil on plane to slightly concave slopes on uplands. It is generally near streams. Typically this soil has a dark brown, mildly alkaline clay about 18 inches thick. The subsoil, which extends down to a depth of about 28 inches, is dark reddish brown clay. The underlying material is fractured, hard limestone. The soil is moderately alkaline. The soil is well drained. Permeability is very slow and surface runoff is slow. The available water capacity is low.

9. Factors Affecting Surface Water Quality:

Potential sources of sediment to stormwater runoff:

- Clearing and grubbing operations
- Grading and site excavation operations
- Vehicle tracking
- Topsoil stripping and stockpiling
- Landscaping operations

Potential sources other than sediment:

- small fueling activities
- minor equipment maintenance
- sanitary facilities

- solvents, adhesives, paints, etc.
- paving materials, concrete, mortar
- 10. Location of Receiving Waters: The Barton Creek Sections K, L, and O, Phase 1 project is located within the Bear Creek Watershed. Based on boundary maps prepared by the Texas Commission on Environmental Quality, the property is not located in the Edward's Aquifer Recharge Zone, but it is located in the Edwards Aquifer Contributing Zone. There are no wetlands associated with this project.
- 11. <u>Off-Site Operations</u>: Disposal of spoil material will be the responsibility of the Contractors. Spoil shall be temporarily disposed of at the designated onsite temporary disposal area and permanently removed to a permitted off-site spoil disposal area. The Contractors shall be independently responsible as Operators for obtaining necessary permits in conjunction with the off-site disposal of spoil material or acquisition of borrow material.
- 12. <u>Endangered Species</u>: There are no known endangered species within the boundaries of the project.

B. POLLUTION PREVENTION CONTROLS

- 1. <u>Sequence of Construction:</u>
 - (1) Install tree protection. (1 week) (1.2 acres)
 - (2) Install temporary erosion and sedimentation controls. (1 week) (32.0 acres)
 - (3) Clear and grub for roadways, underground utilities, and pond. (1 week) (6.2 acres)
 - (4) Excavate and place embankment to roadway subgrade. (4 weeks) (6.2 acres)
 - (5) Construct all underground utilities. (2 months) (6.2 acres)
 - (6) Test utilities. (2 weeks)
 - (7) Assure all utilities have been placed within roadway. (1 week) (6.2 acres)
 - (8) Once all utilities below subgrade have been tested, finish subgrade and test. (1 Month) (6.2 acres)
 - (9) Lay first coarse of base (2 weeks) (5.0 acres)
 - (10) Lay curb and gutter and sidewalk ramp turn downs. (4 weeks) (3.0 acres)
 - (11) Dress up behind back of curb. (2 weeks) (2.5 acres)
 - (12) Lay second coarse base. (2 weeks) (5.0 acres)
 - (13) After base has been tested and passed, lay asphalt. (2 weeks) (4.0 acres)
 - (14) Complete sidewalk ramps. (2 weeks) (1.0 acres)
 - (15) Finish grading behind curb and revegetate. (2 weeks) (1.0 acres)
 - (16) After vegetation is established, remove temporary erosion controls. (1 week)

2. Erosion and Sedimentation Controls:

Temporary vegetative stabilization:

- 1. From September 15 to March 1, seeding shall be with cool season cover crops (Wheat at 0.5 pounds per 1000 SF, Oats at 0.5 pounds per 1000 SF, Cereal Rye Grain at 0.5 pounds per 1000 SF) with a total rate of 1.5 pounds per 1000 SF. Cool season cover crops are not permanent erosion control.
- 2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pound per 1000 SF.
 - a. Fertilizer shall be water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of ½ pound per 1000 SF.
 - b. Hydromulch shall comply with Table 1, below.
 - c. Temporary erosion control shall be acceptable when the grass has grown at least 1 ½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
 - d. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

Material	Description	Longevity	Typical	Applications
			Applications	Rates
100% or any blend of	70% or	0-3 Months	Moderate slopes	1500 to 2000
wood, cellulose, straw,	greater		From flat to 3:1	lbs per acre
and/or cotton plant	wood/straw			
material (except no	30% or less			
mulch shall exceed	paper or			
30% paper)	natural fibers			

Table 1 Hydromulching for Temporary Vegetative Stabilization

Permanent vegetative stabilization:

- 1. From September 15 to March 1, seeding is considered to be temporary stabilization only. If cool season cover crops exist where permanent vegetation stabilization is desired, the grasses shall be mowed to a height of less than one half (1/2) inch and the area shall be re-seeded in accordance with 2. below.
- 2. From March 2 to September 14, seeding shall be with hulled Bermuda at a rate of 1 pound per 1000 SF with a purity of 95% with 85% germination. Bermuda grass is a warm season grass and is considered permanent erosion control.
 - a. Fertilizer shall be water soluble with an analysis of 15-15-15 to be applied once at planting and once during the period of establishment at a rate of ½ pound per 1000 SF.
 - b. Hydromulch shall comply with table 2,below.
 - c. The planted area shall be irrigated or sprinkled in a manner that will not erode the topsoil, but will sufficiently soak the soil to a depth of six inches. The irrigation shall occur at daily intervals (minimum) during the first two months. Rainfall occurrences of ½ inch or more shall postpone the watering schedule for one week.

- d. Permanent erosion control shall be acceptable when the grass has grown at least 1 ½ inches high with 95% coverage, provided no bare spots larger than 16 square feet exist.
- e. When required, native grass seeding shall comply with requirements of the City of Austin Environmental Criteria Manual.

Material	Description	Longevity	Typical	Applications Rates
			Applications	
Bonded Fiber	80% Organic	6 Months	On slopes up to	2500 to 4000 lbs
Matrix (BFM)	Defibrated Fibers		2:1 and erosive	per acre (see
	10% Tackifier		soil conditions	manufacturers
				recommendations)
Fiber Reinforced	65% Organic	Up to 12 Months	On slopes up to	3000 to 4500 lbs
Matrix (FRM)	Defibrated Fibers		1:1 and erosive	per acre (see
	25% Reinforcing		soil conditions	manufacturers
	Fibers or less			recommendations)
	10% Tackifier			

Table 2 Hydromulching for Permanent Vegetation Stabilization

- b. Structural Controls:
 - (i) Erosion and sediment structural controls have been designed to retain sediment onsite to the extent practicable with consideration for local topography, soil type, and rainfall.
 - (ii) Control measures must be properly selected, installed, and maintained according to the manufacturer's or designer's specifications.
 - (iii) Stratus Properties Operating Co., LP will be the facility operator with control over the construction plans and specifications, including the ability to make modifications in the plans and specifications. Prior to site clearing, grading and excavation, stabilized construction entrances will be installed, tree protection/limit of construction fencing will be installed, and silt fences will be installed at the downstream edge of disturbed areas where shallow sheet runoff occurs. Rock berms will be placed downstream of the areas where concentrated runoff occurs. To insure that no additional areas are disturbed other than those included in the limits of construction, orange mesh fences will be placed on the upstream side of the limits of construction to keep construction activity out of areas not designated for construction. The Contractor will install the stabilized construction entrance and silt fence prior to the start of any construction. The Contractor will be responsible for stabilization (revegetation). The Contractor will also be responsible for removing the temporary controls once the revegetation is established.

3. Stormwater Management Controls:

a. Temporary Sediment Controls: A stabilized construction entrance will be place as shown on the *Erosion/Sedimentation Control & Tree Protection Plan* and silt fences will be constructed at the downstream edge of the disturbed areas. Silt fence will also be used at selected locations of significant fill, around material stockpile sites, and around any other area that would be a pollutant source during storm events. The rock berms will be placed immediately downstream of areas where concentrated runoff occurs, and within defined channels downstream from development, as appropriate. Additionally, silt fence will typically be utilized on the downstream side of rock berms to supplement sediment removal. The batch detention pond will be rough graded at the beginning of construction so it can be used as a sediment trap during construction. The utility trenches will also be utilized as temporary sediment traps to the extent feasible during construction.

The contractor will install the erosion/sedimentation controls prior to the start of any construction. The contractor will be responsible for maintaining the erosion control measures and removing the controls once the revegetation is established. The locations of such controls are shown in *the Erosion/Sedimentation Control & Tree Protection Plan.*

- b. Permanent Stormwater Controls: Once construction associated with this project is completed, the site will be revegetated in accordance with the stabilization practices identified in this plan. A batch detention pond and vegetative filter strips will provide water quality control and treatment for stormwater runoff from the developed areas being conveyed to the creeks.
- 4. Other Controls:
 - a. Waste Disposal: All construction-related waste materials will be collected and stored at a temporary onsite spoil disposal site. The Contractors will be independently responsible as Operators for controlling and preventing offsite migration of litter, construction debris, and construction materials.
 - b. Sanitary Waste: The Contractors will be responsible for placing portable units onsite during construction, and waste will be collected and disposed of in accordance with state and local regulations.
 - c. Off-site Vehicle Tracking: Stabilized construction entrances will be provided at the entry location to the construction project. The Contractors will be responsible for maintaining the entrances, and removing any sediment deposited onto adjacent streets. Vehicles leaving the site will be washed, as required.
 - d. Dust Control: Contractors will spray water on disturbed areas and spoils areas, and apply mulch, as required, to control dust.
 - e. Dewatering: When it becomes necessary to pump standing water from the site, the Contractors shall utilize the methods depicted in the Dewatering Detail included with this plan. Standing water removed via open channel will be routed through silt fence and/or rock berm before leaving the site.
- 5. <u>Timing of Controls and Measures</u>: Erosion and sediment structural control measures will be in place prior to clearing, grading or construction of any portion of the site. Construction phasing may occur, but in all instances erosion and sedimentation control measures will be in place in those areas prior to start of construction. Disturbed areas will be restored as described under Stabilization Practices. Temporary erosion and sediment controls will be removed only after all disturbed areas have been restored.

C. STATE AND LOCAL REQUIREMENTS

The stormwater pollution prevention plan complies with the requirements of the City of Austin, Travis County, and the Texas Commission on Environmental Quality (TCEQ) in effect at the time of permitting.

D. INSPECTION AND MAINTENANCE PROCEDURES

Stratus Properties Operating Co., L.P (and/or their qualified agents) and Contractors, as Operators, shall be independently responsible for inspection of the controls, and for required record keeping (reference Appendix A). All Operators will be responsible for revisions to the controls, as necessary, based on inspections. The Contractors will be responsible for maintenance of the controls.

1. Inspection of Controls:

- a. Personnel provided by the Operators shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, discharge locations, and structural controls for evidence of, or the potential for, pollutants entering the drainage system. Personnel conducting these inspections must be knowledgeable of TPDES General Permit No. TXR150000, familiar with the construction site, and knowledgeable of this plan. Sediment and erosion control measures identified in this plan shall be inspected to ensure that they are operating correctly. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking. Inspections must be conducted at least once every 7 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.
- b. Where sites have been finally or temporarily stabilized, inspections shall be conducted at least once every month.
- c. In the event of flooding or other uncontrollable situations which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable.
- d. This plan must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions to the plan must be completed within seven (7) calendar days following the inspection. If existing controls are modified or if additional controls are necessary, an implementation schedule must be described in this plan and/or Inspection and Maintenance Report, and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable.
- e. An Inspection and Maintenance Report summarizing the scope of the inspection, the dates of the inspection, and major observations relating to the implementation and/or revision of this plan must be made and retained as part of the plan. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of controls that need to be maintained; locations of controls that failed to operate as designed or proved inadequate for a particular location; and locations where additional controls are needed. Reports must identify any incidents of non-compliance.

2. Maintenance of Controls:

- a. All protective measures and controls identified in this plan shall be maintained in effective operating condition. If, through inspections or other means, it is determined that controls are not operating effectively, then the Contractors, as Operators, shall perform maintenance as necessary to maintain the continued effectiveness of stormwater controls, and prior to the next rain event if feasible. If maintenance prior to the next anticipated storm event is impracticable, the reason shall be documented in the plan and maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, runover, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.
- b. If periodic inspections or other information indicates a control has been used incorrectly, is performing inadequately, or is damaged, then the Operators shall replace or modify the control as soon as practicable after making the discovery.
- c. Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%.
- d. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.
- e. If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event if feasible. If the Operators do not own or operate the off-site conveyance, then the Operators must work with the owner or operator of the property to remove the sediment.

E. POLLUTION PREVENTION MEASURES

- 1. <u>Non-Storm Water Discharges</u>: The following non-stormwater discharges may occur from the site during the construction period:
 - a. discharges from fire fighting activities;
 - b. uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water);
 - c. water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local, state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;
 - d. uncontaminated water used to control dust;

- e. potable water sources including waterline flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life);
- f. uncontaminated air conditioning condensate;
- g. uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents; and
- h. lawn watering and similar irrigation drainage.
- 2. <u>Material Inventory</u>: The materials or substances listed below are expected to be present onsite during construction:
 - Concrete and concrete products
 - Asphalt and asphalt products
 - Metal reinforcing materials rebar, welded wire fabric
 - Fertilizers
 - Petroleum based products
 - Wood
 - Plastic (PVC) and metal pipe and fittings
 - Rock, gravel, sand, and soil
 - Paint
- 3. <u>Material Management Practices</u>: The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff:
 - a. Good Housekeeping: The following good housekeeping practices will be followed onsite during the construction project:
 - An effort will be made to store only enough product required to do the job.
 - All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers.
 - Materials will be stored in the temporary spoils disposal area as shown on erosion/sedimentation control plan, or an area as may otherwise be approved by Standard Pacific of Texas, Inc. and Engineer.
 - Products will be kept in their original containers with the original manufacturers' labels.

- Whenever possible, all of a product will be used before disposing of the container.
- Manufacturers' recommendations for proper use and disposal will be followed.
- The Contractor will inspect daily to ensure proper use and disposal of materials onsite.
- b. Hazardous Products: These practices are used to reduce the risks associated with hazardous materials (if applicable):
 - Products will be kept in original containers unless they are not resealable.
 - Original labels and material safety data will be retained, as they contain important product information.
 - If surplus product must be disposed of, manufacturers' and/or local and state recommended methods for proper disposal will be followed.
- c. The following product specific practices will be followed onsite:
 - Petroleum Products: All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers that are clearly labeled. Any asphaltic substances used onsite will be applied according to the manufacturers' recommendations.
 - Fertilizers: Fertilizers will be applied only in the minimum amounts recommended by the manufacturer or as otherwise indicated on the plans. Once applied, fertilizer will be worked into the soil to limit exposure to stormwater. The contents of any partially used bags of fertilizer will be stored in a manner so as to avoid spills.
 - Concrete: Onsite concrete truck wash out is allowed, but is restricted as noted below. Excess dried concrete will be removed from the site and transported to a permitted off-site spoil disposal area.
 - Direct discharge of concrete truck wash out water to surface water in the state, including discharge to storm sewers, is prohibited.
 - Concrete truck wash out water shall be discharged to areas at the construction site where structural controls have been established to prevent direct discharge to surface waters, or to areas that have minimal slope that allow infiltration and filtering of wash out water to prevent direct discharge to surface waters. Structural controls may consist of temporary berms, temporary shallow pits, temporary storage tanks with slow rate release, or other reasonable measure to prevent runoff from the construction site.
 - Wash out of concrete trucks during rainfall events shall be minimized. The direct discharge of concrete truck washout water is prohibited at all times, and the

Operators shall insure that controls are sufficient to prevent the discharge of concrete truck wash out as the result of rain.

- The discharge of wash out water shall not cause or contribute to groundwater contamination.
- 4. <u>Spill Control Practices:</u> In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup:
 - Site personnel will be made aware of the manufacturers' recommended methods for spill cleanup and the location of the information and cleanup supplies.
 - Materials and equipment necessary for spill cleanup will be kept onsite in an accessible location known to site personnel.
 - All spills will be cleaned up immediately upon discovery.
- 5. <u>Releases of Reportable Quantities (RQ)</u>: The EPA has issued regulations that define what reportable quantity levels are for oil and hazardous substances. These regulations can be found at 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302. The TCEQ has issued similar regulations under 30 TAC Chapter 327. If there is an RQ release during the construction period, then the following steps must be taken:
 - For quantities less than the reportable quantity* The contractor will contain and isolate the spilled substance. The remaining spilled substance and contaminated soil will be removed and disposed of properly.
 - For quantities more than the reportable quantity* The contractor will contain and isolate the spilled substance in accordance with 30 TAC Chapter 327. The contractor will then contact the appropriate spill response team and the TCEQ Austin Regional Office (512)339-2929 or the State Emergency Response Center at 1 (800)832-8224 and the National Response Center immediately at (800) 424-8802. The remaining spilled substance and contaminated soil will be removed and disposed of in an using approved emergency response methods. The proper authorities shall be kept informed during the cleanup process. Within 14 days, modify the SWPPP with a written description of the release providing the date and circumstances of the release and the steps to be taken to prevent another release.
 - * Reportable quantity (RQ) is defined in 30 TAC Chapter 327. The RQ for petroleum products, oil, and industrial solid waste are shown below. For hazardous substances see 30 TAC Chapter 327.4 and 40 CFR Chapter 302.4.

The RQ for *oil, petroleum product and used oil* is as follows:

- (1) The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:
 - (A) for spills or discharges onto land 210 gallons (five barrels); or
 - (B) for spills or discharges directly into water in the state quantity sufficient to create a sheen.
- (2) The RQ for petroleum product or used oil shall be:

- (A) except as noted under (B) below, for spills or discharges onto land 25 gallons;
- (B) for spills or discharges to land from PST exempted facilities 210 gallons (five barrels); or
- (C) for spills or discharges directly into water in the state quantity sufficient to create a sheen.

The RQ for spills or discharges into water in the state for *industrial solid waste or other substances* shall be 100 pounds.

6. <u>Spill Response Handbook</u>: The TCEQ <u>Small-Business Handbook for Spill Response</u> (RG-285) is provided as a supplementary resource and can be found in *Appendix D*.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Barton Creek Section K, L & O Date Prepared: 2/5/2020

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project:

Calculations from RG-348 Page 3-29 Equation 3.3: L_M = 27.2(A_N x P) Pages 3-27 to 3-30

where:

 $L_{M \text{ TOTAL PROJECT}}$ = Required TSS removal resulting from the proposed development = 80% of increased load A_N = Net increase in impervious area for the project

P = Average annual precipitation, inches

County =	Travis	
Total project area included in plan * =	341 51	20105
Predevelopment impervious area within the limits of the plan	0.00	20103
Total post-development impervious area within the limits of the plan	29.25	
Total post-development impervious cover fraction * -	40.23	acres
	0.00	<u> </u>
P =	32	
	24589	lbs.
* The values entered in these fields should be for the total project area		
the total project area.		
Number of drainage basins / outfalls areas leaving the plan area =	3	
2. Drainage Basin Parameters (This Information should be provided for each	hasin).	
	1010101111	
Drainage Basin/Outfall Area No. =	A	
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area =	A 54.70	acres
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area =	A 54.70 0.00	acres
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area =	A 54.70 0.00 6.93	acres acres
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area =	A 54.70 0.00 6.93 0.13	acres acres acres
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area =	A 54.70 0.00 6.93 0.13 6032	acres acres acres lbs.
Drainage Basin/Outfail Area No. = Total drainage basin/outfail area = Predevelopment impervious area within drainage basin/outfail area = Post-development impervious area within drainage basin/outfail area = Post-development impervious fraction within drainage basin/outfail area = L _{M THIS BASIN} =	A 54.70 0.00 6.93 0.13 6032	acres acres acres lbs.
Drainage Basin/Outfall Area No. = Total drainage basin/outfall area = Predevelopment impervious area within drainage basin/outfall area = Post-development impervious area within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area = Post-development impervious fraction within drainage basin/outfall area = LM THIS BASIN = 3. Indicate the proposed BMP Code for this basin.	A 54.70 0.00 6.93 0.13 6032	acres acres acres lbs.

Removal efficiency = 89 percent

4. Calculate Maximum TSS Load Removed (Le) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A₁ x 34.6 + A_P x 0.54)



A _C =	Total	On-Site	drainage	area in	the	BMP	catchment	area

- A_I = Impervious area proposed in the BMP catchment area
- A_P = Pervious area remaining in the BMP catchment area
- $\rm L_{\rm R}$ = TSS Load removed from this catchment area by the proposed BMP

A _C =	54.70	acres
A _I =	15.25	acres
A _P =	39.45	acres
L _R =	15634	lbs

5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area

Desired L _{M THIS BASIN} =	= 14300	lbs.		
F =	= 0.91			
6. Calculate Capture Volume required by the BMP Type for this drainage ba	sin / outfall a	ea.	Calculations from RG-348	Pages 3-34 to 3-36
Rainfall Depth -	= 1.80	inches		
Post Development Runoff Coefficient = On-site Water Quality Volume =	0.25 = 88304	cubic feet		
	Colculations	from PC 248	Pages 2 26 to 2 27	
	Calculations	110111 KG-340	Pages 3-30 10 3-37	
Off-site area draining to BMP =	= 0.00	acres		
Off-site Impervious cover draining to BMP =	= 0.00	acres		
Impervious fraction of off-site area =	= 0			
Off-site Runoff Coefficient =	= 0.00			
Off-site Water Quality Volume =	= 0	cubic feet		
Storage for Sediment =	= 17661			
Total Capture Volume (required water quality volume(s) x 1.20) =	= 105965	cubic feet		
The following sections are used to calculate the required water quality volu	me(s) for the	selected BMP.		
The values for BMP Types not selected in cell C45 will show NA.				
7. Retention/Irrigation System	Designed as	Required in RO	G-348 Pages	3-42 to 3-46
Required Water Quality Volume for retention basin =	= NA	cubic feet		
Irrigation Area Calculations:				
Soil infiltration/permeability rate = Irrigation area =	= 0.4 = NA NA	in/hr square feet acres	Enter determined permeabil	ity rate or assumed value of 0.1

where:

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Barton Creek Section K, L & O Date Prepared: 2/5/2020

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project	<u>::</u>	Calculations i	from RG-348	Pages 3-27 to 3-30
Page	a 3-29 Equation 3.3: L _M =	27.2(A _N x P)		
where:	L _{M TOTAL PROJECT} = A _N = P =	Required TSS Net increase Average annu	S removal resul in impervious a ual precipitation	ing from the proposed development = 80% of increased load rea for the project , inches
Site Data: Determine Required Load Removal Ba Total project Predevelopment impervious area with Total post-development impervious area with Total post-development imp	sed on the Entire Project County = area included in plan * = n the limits of the plan * = in the limits of the plan * = ervious cover fraction * = P =	Travis 341.51 0.00 28.25 0.08 32	acres acres acres acres	
* The values entered in these fields should be for th	L _{M TOTAL PROJECT} = e total project area.	24589	lbs.	
Number of drainage basins / outfalls area	is leaving the plan area =	3		1 Juli Graza
2. Drainage Basin Parameters (This information should be a second structure of the second structure of	aid be provided for each	basin):		Jawa 15 OF
Drainage E	Basin/Outfall Area No. =	В		
Total drai	inage basin/outfall area =	19 98	20105	S ** **
Predevelopment impervious area within drai	nace basin/outfall area =	0.00	20105	2.**
Post-development impervious area within drai	nage basin/outfall area =	5.40	acros	ALIPEN CRONE
Post-development impervious fraction within drai	nage basin/outfall area =	0.27	00105	CHONEN CRUNE
	L _{M THIS BASIN} =	4778	lbs.	128018
3. Indicate the proposed BMP Code for this basin.				CENSED WITTEN
	Proposed BMP = S	and Filter		NONAL CONTRACT
	Removal efficiency =	89	percent	2/15/21/
4. Calculate Maximum TSS Load Removed (L _R) for th	is Drainage Basin by the	selected BM	P Type.	

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A₁ x 34.6 + A_P x 0.54)

where:	$A_{\rm C} = T_{\rm C}$	otal On-Site	drainage area	a in the BMP catchment area		
	A _I = Im	npervious a	rea proposed i	in the BMP catchment area		
	A _P = Pe	ervious area	a remaining in	the BMP catchment area		
	L _R = TS	$L_{\rm R}$ = TSS Load removed from this catchment area by the proposed BMP				
	A _c =	19.98	acres			
	A _I =	6.40	acres			
	A _P =	13.58	acres			
	L _R =	6515	lbs			
5. Calculate Fraction of Annual Runoff to Treat the drainage back	asin / outfall area	<u>l</u>				
Desire	d L _{m this basin} =	5960	lbs.			
	F =	0.91				
6. Calculate Capture Volume required by the BMP Type for this	<u>s drainage basin</u>	/ outfall ar	ea.	Calculations from RG-348	Pages 3-34 to 3-36	
F	tainfall Depth =	1.80	inches			
Post Development Runoi	t Coefficient =	0.27	cubic foot			
On-site Water Qu	anty volume –	30030	Cubic leet			

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP Off-site Impervious cover draining to BMP Impervious fraction of off-site area Off-site Runoff Coefficient Off-site Water Quality Volume	= 0.00 = 0.00 = 0 = 0.00 = 0	acres acres cubic feet	
Storage for Sediment :	= 7008		
Total Capture Volume (required water quality volume(s) x 1.20)	= 42046	cubic feet	
The values for BMP Types not selected in cell C45 will show NA.	inie(s) for the	Selected DIVIP.	
7. Retention/Irrigation System	Designed as	Required in RG	i-348 Pages 3-42 to 3-46
Required Water Quality Volume for retention basin	= NA	cubic feet	
Irrigation Area Calculations:			
Soil infiltration/permeability rate Irrigation area	= 0.4 = NA NA	in/hr square feet acres	Enter determined permeability rate or assumed value of 0.1

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Barton Creek Section K, L & O Date Prepared: 2/5/2020

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell. Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348. Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

	-			and deed in the opreduction.
1. The Required Load Reduction for the total project:	Calcu	lations from RG-	-348	Pages 3-27 to 3-30
Page 3-29 Equation 3.3	3: L _M = 27.2(A	A _N x P)		
where: L _{M TOTAL PR}	_{OJECT} = Requi	red TSS remova	al resulting from the propos	ed development = 80% of increased load
	A _N = Net in P = Avera	crease in imperv ge annual precip	vious area for the project pitation, inches	
Site Data: Determine Required Load Removal Based on the Entire F	roject			
Co	ounty = T	ravis		
Total project area included in p	lan * = 34	1.51 acres		
Predevelopment impervious area within the limits of the p	xlan * = 🛛 🕻	0.00 acres		
I otal post-development impervious area within the limits of the	plan" = 2	8.25 acres		
Total post-development impervious cover fract	ion * = (0.08		
	P =	32 inches	3	
LM TOTAL PR	OJECT = 24	4589 lbs.		
 The values entered in these fields should be for the total project are 	a.			\land
Number of drainage basins / outfalls areas leaving the plan	area =	3		fall min to
2. Drainage Basin Parameters (This information should be provided for	r each basin):		S S
Drainage Basin/Outfall Area	ı No. =	C		
Total drainage basin/outfall	area = 2:	2.33 acres		LAUREN CRONE
Predevelopment impervious area within drainage basin/outfall	area = 0	.00 acres		C
Post-development impervious area within drainage basin/outfall	area = 5	.52 acres		1 0: 128019
Post-development impervious fraction within drainage basin/outfall	area = 0	.25		10. 120010
LMTHIS	BASIN = 4	805 lbs.		CENSE
3. Indicate the proposed BMP Code for this basin.				CONAL EL
Dessared	AND - Sand I	Eilter		21,0/01
Proposed t	ancy =			7 (5/29
Removal Billio	люу — (ea haiceu	IL .	

4. Calculate Maximum TSS Load Removed (Lp) for this Drainage Basin by the selected BMP Type.

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A x 34.6 + A_P x 0.54)

where:	A _C = To	otal On-Site	drainage area	a in the BMP catchment area	
	A _I = Impervious area proposed in the BMP catchment area				
	A⊳ = Pe	· ervious area	a remaining in	the BMP catchment area	
	$L_{\rm p} = TSS I$ and removed from this catchment area by the proposed BMP				
	K ···				
	A _C =	22.33	acres		
	A _I =	6.60	acres		
	A _P =	15.73	acres		
	L _R =	6746	lbs		
5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outf	all area	ı			
Desired L _{M THIS BA}	. _{SIN} =	6235	lbs.		
	F =	0.92			
6. Calculate Capture Volume required by the BMP Type for this drainage	basin	/ outfall ar	ea.	Calculations from RG-348	Pages 3-34 to 3-36
	, waterin				. ages s s i to s so
Painfall Da	oth -	2.00	inches		
Rainiai Dej Post Development Runoff Coefficie	nt =	2.00	inches		
On-site Water Quality Volu	me =	41479	cubic feet		
	C	alculations f	rom RG-348	Pages 3-36 to 3-37	
	00		1011110-040	1 ages 5-50 to 5-57	
Off-site area draining to B	MP =	0.00	acres		
Off-site Impervious cover draining to BM	ЛР =	0.00	acres		
Impervious fraction of off-site ar	ea =	0			
Off-site Runoff Coefficie	ent =	0.00			
Off-site Water Quality Volu	ne =	0	cubic feet		
Storage for Sedime	ent =	8296			
Total Capture Volume (required water quality volume(s) x 1.2	20) =	49775	cubic feet		
The following sections are used to calculate the required water quality v	, olume	(s) for the s	selected BMP	<u>.</u>	
The values for BMP Types not selected in cell C45 will show NA.					

7. Retention/Irrigation System Pages 3-42 to 3-46 Designed as Required in RG-348 Required Water Quality Volume for retention basin = NA cubic feet Irrigation Area Calculations: Soil infiltration/permeability rate = Irrigation area = 0.4 in/hr Enter determined permeability rate or assumed value of 0.1

- NA square feet
 - NA acres

F. POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Operator (Plans and Specifications):

Ву:		
Name	Title	Date
Printed Name: Company: Address:		

F. POLLUTION PREVENTION PLAN CERTIFICATION

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Operator (Contractor):

By:				
	Name	Title	Date	
Printed Nam Company: Address:	ne:			

EXHIBIT 1

PROJECT LOCATION MAP



CITY OF AUSTIN GRID NUMBERS D22, C22, and D21 MAPSCO PAGES 582U, 582T, 582X, 582Y

Land Development Jurisdiction: 2-Mile ETJ

EXHIBIT 2

SITE MAP / TEMPORARY EROSION/SEDIMENTATION CONTROL & TREE PROTECTION PLAN



FULLY DEVELOPED 100-YR. FLOODPLAIN

TI-FAMILY / CONDO/

1. ALL TREES THAT ARE LOCATED OUTSIDE THE SILT FENCE // LOCATIONS OF THE LIMITS OF CONSTRUCTION INDICATE -OR LIMITS OF CONSTRUCTION FENCING WILL NOT REQUIRE - CON THE PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. TREE FENCING UNLESS OTHERWISE INDICATED ON THE THE SPECIFIC LOCATIONS ARE GENERALLY DEFINED BY THE PLANS OR NOTES.

TREE PROTECTION FENCING TE3. TEMPORARY SPOILS DISPOSAL SITE /CONSTRUCTION KSTAGING AREAS SHALL BE USED DURING TIME OF CONSTRUCTION BUT SHALL BE RESTORED AND REVEGETATED PER EROSION/SEDIMENTATION CONTROL NOTE 10 AFTER CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL TREES 8" DIA. AND LARGER WITH TREE

CPROTECTION FENCING. 4. IT IS THE OWNER'S INTENT TO MINIMIZE CLEARING OF TREES AND BRUSH ALONG THE ROADWAYS, WHILE MAINTAINING A SAFE ROADWAY AND APPROPRIATE SIGHT STREPRESENTATIVE. MINOR TRIMMING OF TREE LIMBS IS DISTANCES, ROAD CLEARING SHALL NOT EXTEND ANY TFARTHER THAN NECESSARY TO ALLOW ADEQUATE ROOM FOR CONSTRUCTION, BUT SHALL BE A MINIMUM OF 7 FROM 🔫 8. CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM

PREMAIN SHALL BE HAND CLEARED.

FINISHED PAVEMENT

TRA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT LIMBS AND ROOT SYSTEMS OF ALL TREES OUTSIDE OF CLEARING LIMITS BY NOT PARKING UNDER TREES, NOT DRIVING EQUIPMENT OVER ROOT ZONES AND NOT STORING MATERIALS UNDER TREES. PROTECTION OF VEGETATION TO REMAIN SHALL INCLUDE NOT ONLY -HARDWOODS, BUT CEDARS AND UNDERBRUSH

/OF CONSTRUCTION SHALL BE DELINEATED IN THE FIELD 2. TREES TO REMAIN THAT ARE LOCATED INSIDE THE SILT / WITH SILT PENCE, TREE PROTECTION FENCING, OR ORANGE FENCE OR LIMITS OF CONSTRUCTION FENCING SHALL HAVE / PLASTIC MESH FENCE, EXCEPT WHERE LIMITS OF CONSTRUCTION IS IN CONFLICT WITH ROADWAY TRAFFIC. AND/OR WHERE LIMITS OF CONSTRUCTION HAS BEEN EXPANDED FOR INSTALLATION OF FLOW SPREADERS AND SILT FENCE OUTSIDE OF RIGHT-OF-WAY.

>), THE LOCATIONS OF SILT FENCES OUTSIDE OF THE LIMITS COR RIGHT-OF-WAY AND/OR EASEMENTS ARE APPROXIMATE XAND SHALL BE FIELD-VERIFIED BY THE ENGINEER PRIOR TO AND DURING INSTALLATION. NO CLEARING IS ALLOWED FOR THE INSTALLATION OF SILT FENCES WHICH ARE LOCATED OUTSIDE OF THE RIGHT-OF-WAY AND/OR EASEMENTS UNLESS AUTHORIZED BY THE OWNER OR HIS DESIGNATED EALLOWED.

TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM IS NOT PERFORMING THE CONTRACTOR MUST FOLLOW THE S. THE CRITICAL ROOT ZONE OF ALL TREES IDENTIFIED TO CENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE ADEQUATE SYSTEM PERFORMANCE. SEE SHEET 25 FOR TYPICAL DEWATERING DETAIL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT A DEWATERINI

PLAN PRIOR TO CONSTRUCTION IF HE PROPOSES AN TERNATIVE PLAN.

I-FAMILY / CONDO

NTROLS FOR PUBLIC AND/OR PRIVATE STREET RIGHT-OF LUDING AREAS BEHIND ROCK RETAINING V INCLUDING ROADSIDE DITCHES IMMEDIA INT TO RIGHT-OF-WAY: 419 TIFF BERMUDA SOD MONTHS OF THE YEAR. FOR

B. FOR ALL AREAS OUTSIDE OF PUBLIC AND/OR PRIVATE STREET RIGHT OF WAY AND/OR BEHIND ROCK RETAINING WILLS, INCLUDING SPOL DISPOSAL AREAS NATIVE SEED MIXTURE MEETIN CITY OF AUSTIN STANDARD SPECIFICATIONS (045.6, INCLUDING NATIVI

WILDFLOWERS AND YOOL PLASON COVER CROP (AS A APPLICABLE FROM SEATEMBER 15 TO MARCH 1). SPECIFIES SUBSTITUT AS NECESSARY DUE TO AVAILABILITY MAY BY ALLO VED. HOWEVER, ANY BE APPROVED BY THE SUBSTITUTIONS S 11 F R ENGINEER A FINAL SEED MIX IN IST BE SUBMITTED BY C THE CONTRACTOR FOR APPROVAL BY THE ENGINEER PRIOR TO APPLICATION. DURING INE MONTHS OF OCTOBER THROUGH FEBRUARY THE NATIVE GRASS SEED WI IE TREATED WITH A FUNCE IDE PRIOR TO

SEE ROSION / SEDIMENTATION CONTROL VOTES, ET 13, FOR ADDITIONAL REQUIREMENT TER QUALITY EASEMENTS (WOE) SHALL BE LE URAL STATE WITH THE EXCEPTION OF THE

ALLATION OF UTILITIES, STORM LINES AND IRRI

APPLI

SHEEDS

LOT 41 SPACE / D.E.



LOT 6 ŚMULTI-FAMILY 7 CONDO AJ7 T TREE LEGEND TREES TO REMAIN 1200 (TREE TAG & DESC.) 281 TREES TO BE REMOVED (TREE TAG & DESC.) ----- TREE PROTECTION FENCING LEGEND: FULLY DEVELOPED 100-YR. FLOODPLAIN . 3000 (C. 2000000) (C. 2000000) (C. 20000) EXIST. FEMA 100-YR. FLOODPLAIN BARTÓN CREÉK $\ll \ll \ll$ DIVERSION SECTION M LIMITS OF CONSTRUCTION talina i i nama i OC. NO. 20000030 (ORANGE FENCING OR SILT FENCE) Unppr ** *** *** *** *** *** *** *** *** SILT FENCE ROCK BERM **TEMPORARY SPOILS** LOT: & CONTRACTOR STAGING AREA MULTI-FAMILY STABILIZED CONSTRUCTION ENTRANCE CONTRACTOR WASHOUT AREA PHASE 1 BOUNDARY WATER QUALITY IRRIGATION AREA ****** PROP. WATER LINE PROP. WASTEWATER LINE. angan Manan Saman PROP. WASTEWATER LINE 57 PROP. STORM LINE ***** BARTON CREEK EXIST. WATER LINE SECTION N DOC. NO. 201400316 EXIST. WASTEWATER LINE EXIST. STORM LINE LOST CREEK BLVD. NEW PVMT. DITCH CURLEX MATTING

(LJAV19/Burton Creek/KLOV(8 164: Peb 10, 22 - 13:19 17me: Peb 10, 22 - 14:51;



TREE LEGEND 1. ALL TREES THAT ARE LOCATED OUTSIDE THE SILT FENCE (7. LOCATIONS OF THE LIMITS OF CONSTRUCTION INDICATED OR LIMITS OF CONSTRUCTION FENCING WILL NOT REQUIRE ON THE PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. OR LIMITS OF CONSTRUCTION FENCING WILL NOT REQUIRE TREE FENCING UNLESS OTHERWISE INDICATED ON THE PLANS OR NOTES. TREES TO REMAIN 1200 · (TREE TAG & DESC.) **\OF CONSTRUCTION SHALL BE DELINEATED IN THE FIELD** <u>(</u>281)! -2. TREES TO REMAIN THAT ARE LOCATED INSIDE THE SILT WITH SILT FENCE, TREE PROTECTION FENCING, OR ORANGE TREES TO BE REMOVED FENCE OR LIMITS OF CONSTRUCTION FENCING SHALL HAVE ... /PLASTIC MESH FENCE, EXCEPT WHERE LIMITS OF (TREE TAG & DESC.) CONSTRUCTION IS IN CONFLICT WITH ROADWAY TRAFFIC. TREE PROTECTION FENCING. AND/OR WHERE LIMITS OF CONSTRUCTION HAS BEEN 3. TEMPORARY SPOILS DISPOSAL SITE /CONSTRUCTION LEXPANDED FOR INSTALLATION OF FLOW SPREADERS AND (/ B. **Z-SILT FENCE OUTSIDE OF RIGHT-OF-WAY.** _STAGING AREAS SHALL BE USED DURING TIME OF LEGEND: CONSTRUCTION BUT SHALL BE RESTORED AND 8. THE LOCATIONS OF SILT FENCES OUTSIDE OF THE UNITS REVEGETATED PER EROSION/SEDIMENTATION CONTROL ZOR RIGHT-OF-WAY AND/OR EASEMENTS ARE APPROXIMATE NOTE 10 AFTER CONSTRUCTION, CONTRACTOR SHALL FULLY DEVELOPED 100-YR. FLOODPLAIN 3008 3 000000 3 000000 3 000 AND SHALL BE FIELD-VERIFIED BY THE ENGINEER PRIOR TO "PROTECT ALL TREES 8" DIA, AND LARGER WITH TREE AND DURING INSTALLATION. NO CLEARING IS ALLOWED FOR **4PROTECTION FENCING.** EXIST. FEMA 100-YR. FLOODPLAIN THE INSTALLATION OF SILT FENCES WHICH ARE LOCATED _4. IT IS THE OWNER'S INTENT TO MINIMIZE CLEARING OF OUTSIDE OF THE RIGHT-OF-WAY AND/OR EASEMENTS ~~~ DIVERSION FUNLESS AUTHORIZED BY THE OWNER OR HIS DESIGNATED ZTREES AND BRUSH ALONG THE ROADWAYS, WHILE LIMITS OF CONSTRUCTION MAINTAINING & SAFE ROADWAY AND APPROPRIATE SIGHT / REPRESENTATIVE, MINOR TRIMMING OF TREE LIMBS IS anna - anna - anna (ORANGE FENCING OR SILT FENCE) -DISTANCES, ROAD CLEARING SHALL NOT EXTEND ANY //ALLOWED. FARTHER THAN NECESSARY TO ALLOW ADEQUATE ROOM ***** SILT FENCE FOR CONSTRUCTION, BUT SHALL BE A MINIMUM OF 7' FROM 29. CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM 7 TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM IS FINISHED PAVEMENT. $\infty \infty \infty \infty \infty \infty \infty$ **ROCK BERM** NOT PERFORMING THE CONTRACTOR MUST FOLLOW THE 15 THE CRITICAL ROOT ZONE OF ALL TREES IDENTIFIED TO 1/ENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE TEMPORARY SPOILS ADEQUATE SYSTEM PERFORMANCE. SEE SHEET 25 FOR REMAIN SHALL BE HAND CLEARED. & CONTRACTOR STAGING AREA TYPICAL DEWATERING DETAIL. IT SHALL BE THE STABILIZED CONSTRUCTION ENTRANCE CONTRACTOR'S RESPONSIBILITY TO SUBMIT A DEWATERING PLAN PRIOR TO CONSTRUCTION IF HE PROPOSES AN **COUTSIDE OF CLEARING LIMITS BY NOT PARKING UNDER** LTERNATIVE PLAN TREES, NOT DRIVING EQUIPMENT OVER ROOT ZONES AND CONTRACTOR WASHOUT AREA -NOT STORING MATERIALS UNDER TREES. PROTECTION OF VEGETATION TO REMAIN SHALL INCLUDE NOT ONLY HARDWOODS, BUT CEDARS AND UNDERBRUSH PHASE 1 BOUNDARY * * * * * WATER QUALITY IRRIGATION AREA PROP. WATER LINE - and the second of the second second PROP. WASTEWATER LINE PROP. WASTEWATER LINE ()) ()) ()) PROP. STORM LINE EXIST. WATER LINE annan () annan () annan () annan EXIST. WASTEWATER LINE nana kanin kanan kanan EXIST. STORM LINE anna III annan III annan III ann LOST CREEK BLVD. NEW PVMT. DITCH CURLEX MATTING San N MATCH LINE 10 MULTI-FAMILY / CONDO MI II TILFAMII V

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TREE LEGEND TREES TO REMAIN (TREE TAG & DESC.) TREES TO BE REMOVED (TREE TAG & DESC.) ----- TREE PROTECTION FENCING LEGEND: FULLY DEVELOPED 100-YR. FLOODPLAIN - 3038 · 2000,000 · 2000,000 · 3038 EXIST. FEMA 100-YR. FLOODPLAIN $\ll \ll \ll$ DIVERSION LIMITS OF CONSTRUCTION (ORANGE FENCING OR SILT FENCE) * ** *** *** *** *** *** ** SILT FENCE ROCK BERM TEMPORARY SPOILS & CONTRACTOR STAGING AREA STABILIZED CONSTRUCTION ENTRANCE CONTRACTOR WASHOUT AREA PHASE 1 BOUNDARY WATER QUALITY IRRIGATION AREA * * * * PROP. WATER LINE annan Marine Kener Kanan PROP. WASTEWATER LINE PROP. WASTEWATER LINE nnn 38. nuure 18. nuure 18. nuur PROP. STORM LINE EXIST. WATER LINE : ganan Kapan Karaan Kamaa EXIST. WASTEWATER LINE annin Sana Sana Sana EXIST. STORM LINE anne 33 anne 33 anne 33 anne LOST CREEK BLVD. NEW PVMT. DITCH CURLEX MATTING in the second MULTI-FAMILY / CONDO A. FOR PUBLIC AND/OR PRIVATE STREET RIGHT-OF-WAY EXCLUDING AREAS BEHIND ROCK RETAINING WALL, BUT INCLUDING ROADSIDE DITCHES IMMEDIATELY ADJACENT TO RIGHT-OF-WAY: SEED MIXTURE MEETING CITY OF AUSTIN STANDARD SPECIFICATIONS 609S. . ALL TREES THAT ARE LOCATED OUTSIDE THE SILT FENCE 7. LOCATIONS OF THE UMITS OF CONSTRUCTION INDICATED CURLEX MATTING SHALL BE USED IN ALL AREAS OR LIMITS OF CONSTRUCTION FENCING WILL NOT REQUIRE 2 JON THE PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. SEEDED WITH 609S. AREAS OF CONCENTRATED FLOW, TREE FENCING UNLESS OTHERWISE INDICATED ON THE THE SPECIFIC LOCATIONS ARE GENERALLY DEFINED BY THE INCLUDING CHANNELS AND DITCHES SHALL USE TURF >LIMITS OF RIGHT-OF-WAY AND/OR EASEMENTS. ALL LIMITS PLANS OR NOTES. REINFORCEMENT MATTING. ⁴⁻OF CONSTRUCTION SHALL BE DELINEATED IN THE FIELD 2. TREES TO REMAIN THAT ARE LOCATED INSIDE THE SILT "WITH SILT FENCE, TREE PROTECTION FENCING, OR ORANGE FOR ALL AREAS OUTSIDE OF PUBLIC AND/OR PRIVATE FENCE OR LIMITS OF CONSTRUCTION FENCING SHALL HAVE - PLASTIC MESH FENCE, EXCEPT WHERE LIMITS OF STREET RIGHT OF WAY AND/OR BEHIND ROCK CONSTRUCTION IS IN CONFLICT WITH ROADWAY TRAFFIC, TREE PROTECTION FENCING. RETAINING WALLS, INCLUDING SPOIL DISPOSAL AREAS: AND/OR WHERE LIMITS OF CONSTRUCTION HAS BEEN ____EXPANDED FOR INSTALLATION OF FLOW SPREADERS AND (3. TEMPORARY SPOILS DISPOSAL SITE /CONSTRUCTION NATIVE SEED MIXTURE MEETING CITY OF AUSTIN SILT FENCE OUTSIDE OF RIGHT-OF-WAY. 'STAGING AREAS SHALL BE USED DURING TIME OF STANDARD SPECIFICATIONS 609S, INCLUDING NATIVE CONSTRUCTION BUT SHALL BE RESTORED AND WILDFLOWERS AND COOL SEASON COVER CROP (AS A 3. THE LOCATIONS OF SILT FENCES OUTSIDE OF THE LIMITS REVEGETATED PER EROSION/SEDIMENTATION CONTROL APPLICABLE FROM SEPTEMBER 15 TO MARCH 1). NOTE 19 AFTER CONSTRUCTION CONTRACTOR SHALL ----OR RIGHT-OF-WAY AND/OR EASEMENTS ARE APPROXIMATE CURLEX MATTING SHALL BE USED IN ALL AREAS PROTECT ALL TREES 8" DIA. AND LARGER WITH TREE TAND SHALL BE FIELD-VERIFIED BY THE ENGINEER PRIOR TO SEEDED WITH 609S. AREAS OF CONCENTRATED FLOW, \lesssim and during installation. No clearing is allowed FOR hiPROTECTION FENCING INCLUDING CHANNELS AND DITCHES SHALL USE TURF THE INSTALLATION OF SILT FENCES WHICH ARE LOCATED REINFORCEMENT MATTING. OUTSIDE OF THE RIGHT-OF-WAY AND/OR EASEMENTS A. IT IS THE OWNER'S INTENT TO MINIMIZE CLEARING OF UNLESS AUTHORIZED BY THE OWNER OR HIS DESIGNATED TREES AND BRUSH ALONG THE ROADWAYS, WHILE SPECIFIES SUBSTITUTION AS NECESSARY DUE TO MAINTAINING A SAFE ROADWAY AND APPROPRIATE SIGHT REPRESENTATIVE, MINOR TRIMMING OF TREE LIMBS IS AVAILABILITY MAY BE ALLOWED. HOWEVER, ANY VOISTANCES, ROAD CLEARING SHALL NOT EXTEND ANY ALLOWED. SUBSTITUTIONS SHALL FIRST BE APPROVED BY THE FARTHER THAN NECESSARY TO ALLOW ADEQUATE ROOM ----ENGINEER. A FINAL SEED MIX MUST BE SUBMITTED BY FOR CONSTRUCTION, BUT SHALL BE A MINIMUM OF 7' FROM 9. CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM THE CONTRACTOR FOR APPROVAL BY THE ENGINEER TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM 1 FINISHED PAVEMENT. PRIOR TO APPLICATION. DURING THE MONTHS OF -NOT PERFORMING THE CONTRACTOR MUST FOLLOW THE OCTOBER THROUGH FEBRUARY THE NATIVE GRASS 5. THE CRITICAL ROOT ZONE OF ALL TREES IDENTIFIED TO ___ENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE _ SEED WILL BE TREATED WITH A FUNGICIDE PRIOR TO ADEQUATE SYSTEM PERFORMANCE. SEE SHEET 25 FOR REMAIN SHALL BE HAND CLEARED. APPLICATION. TYPICAL DEWATERING DETAIL. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT A DEWATERING 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SEE EROSION / SEDIMENTATION CONTROL NOTES, SHEET 13, FOR ADDITIONAL REQUIREMENTS. PROTECT LIMBS AND ROOT SYSTEMS OF ALL TREES -PLAN PRIOR TO CONSTRUCTION IF HE PROPOSES AN OUTSIDE OF CLEARING LIMITS BY NOT PARKING UNDER ALTERNATIVE PLAN TREES, NOT DRIVING EQUIPMENT OVER ROOT ZONES AND I. WATER QUALITY EASEMENTS (WQE) SHALL BE LEFT IN A NOT STORING MATERIALS UNDER TREES. PROTECTION OF NATURAL STATE WITH THE EXCEPTION OF THE VEGETATION TO REMAIN SHALL INCLUDE NOT ONLY NSTALLATION OF UTILITIES, STORM LINES AND IRRIGATION HARDWOODS, BUT CEDARS AND UNDERBRUSH LINES.

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aviuaris) Barton Creekivkio/Constivkio-P ops cilitet: Feb. 10, 22 - 13:19 Bartinne: Feb. 10, 22 - 14:48:52
MULTI-FAMILY/CONDO 1 OT $\mathcal{D}\mathcal{D}\mathcal{B}$ B BARTON CREEK SECTION M²) /DOC. NO. 20000030 083 MI II TI FAMIL " haven TREE LEGEND TREES TO REMAIN 1200 (TREE TAG & DESC.) TREES TO BE REMOVED 2811 (TREE TAG & DESC.) TREE PROTECTION FENCING LEGEND: FULLY DEVELOPED 100-YR. FLOODPLAIN EXIST, FEMA 100-YR, FLOODPLAIN $\ll \ll \ll$ DIVERSION LIMITS OF CONSTRUCTION anna - anna - anna (ORANGE FENCING OR SILT FENCE) SILT FENCE ROCK BERM 1. ALL TREES THAT ARE LOCATED OUTSIDE THE SILT FENCE / J. LOCATIONS OF THE LIMITS OF CONSTRUCTION INDICATED 6333333333333333 OR LIMITS OF CONSTRUCTION FENCING WILL NOT REQUIRE / / ON THE PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. TEMPORARY SPOILS TREE FENCING UNLESS OTHERWISE INDICATED ON THE // THE SPECIFIC LOCATIONS ARE GENERALLY DEFINED BY THE? / & CONTRACTOR STAGING AREA LIMITS OF RIGHT-OF-WAY AND/OR EASEMENTS. ALL LIMITS PLANS OR NOTES. COF CONSTRUCTION SHALL BE DELINEATED IN THE FIELD STABILIZED CONSTRUCTION ENTRANCE 2. TREES TO REMAIN THAT ARE LOCATED INSIDE THE SILT SWITH SILT FENCE, TREE PROTECTION FENCING, OR ORANGE FENCE OR LIMITS OF CONSTRUCTION FENCING SHALL HAVE PLASTIC MESH FENCE, EXCEPT WHERE LIMITS OF TREE PROTECTION FENCING. CONSTRUCTION IS IN CONFLICT WITH ROADWAY TRAFFIC CONTRACTOR WASHOUT AREA AND/OR WHERE LIMITS OF CONSTRUCTION HAS BEEN EXPANDED FOR INSTALLATION OF FLOW SPREADERS AND 3. TEMPORARY SPOILS DISPOSAL SITE /CONSTRUCTION STAGING AREAS SHALL BE USED DURING TIME OF SILT FENCE OUTSIDE OF RIGHT-OF-WAY. PHASE 1 BOUNDARY CONSTRUCTION BUT SHALL BE RESTORED AND .8. THE LOCATIONS OF SILT FENCES OUTSIDE OF THE LIMITS (REVEGETATED PER EROSION/SEDIMENTATION CONTROL OR RIGHT-OF-WAY AND/OR EASEMENTS ARE APPROXIMATE NOTE 10 AFTER CONSTRUCTION, CONTRACTOR SHALL. * * * * * AND SHALL BE FIELD-VERIFIED BY THE ENGINEER PRIOR TO WATER QUALITY IRRIGATION AREA PROTECT ALL TREES 8" DIA. AND LARGER WITH TREE * * * * -AND DURING INSTALLATION. NO CLEARING IS ALLOWED FOR PROTECTION FENCING. THE INSTALLATION OF SILT FENCES WHICH ARE LOCATED PROP. WATER LINE nijana 🕷 anjan 🕷 aradi 🎕 prijana -OUTSIDE OF THE RIGHT-OF-WAY AND/OR EASEMENTS 4. IT IS THE OWNER'S INTENT TO MINIMIZE CLEARING OF UNLESS AUTHORIZED BY THE OWNER OR HIS DESIGNATED TREES AND BRUSH ALONG THE ROADWAYS, WHILE PROP. WASTEWATER LINE annan Maana Maana Maana MAINTAINING A SAFE ROADWAY AND APPROPRIATE SIGHT 🦯 REPRESENTATIVE, MINOR TRIMMING OF TREE LIMBS IS 👘 DISTANCES. ROAD CLEARING SHALL NOT EXTEND ANY ALLOWED. ann 26 mann 28 man 29 ann PROP. WASTEWATER LINE FARTHER THAN NECESSARY TO ALLOW ADEQUATE ROOM FOR CONSTRUCTION, BUT SHALL BE A MINIMUM OF 7 FROM 9. CONTRACTOR SHALL MAINTAIN THE DEWATERING SYSTEM PROP. EFFLUENT FORCE MAIN FINISHED PAVEMENT. TO ENSURE PERFORMANCE. IF THE DEWATERING SYSTEM IS -NOT PERFORMING THE CONTRACTOR MUST FOLLOW THE PROP. STORM LINE 5. THE CRITICAL ROOT ZONE OF ALL TREES IDENTIFIED TO É _ENVIRONMENTAL INSPECTOR'S DIRECTION TO ENSURE EXIST. WATER LINE ADEQUATE SYSTEM PERFORMANCE. SEE SHEET 25 FOR REMAIN SHALL BE HAND CLEARED. TYPICAL DEWATERING DETAIL. IT SHALL BE THE EXIST. WASTEWATER LINE unana Samua Samua Samua 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACTOR'S RESPONSIBILITY TO SUBMIT A DEWATERING PROTECT LIMBS AND ROOT SYSTEMS OF ALL TREES -PLAN PRIOR TO CONSTRUCTION IF HE PROPOSES AN EXIST. STORM LINE - ALTERNATIVE PLAN. OUTSIDE OF CLEARING LIMITS BY NOT PARKING UNDER TREES, NOT DRIVING EQUIPMENT OVER ROOT ZONES AND LOST CREEK BLVD. NEW PVMT. NOT STORING MATERIALS UNDER TREES. PROTECTION OF DITCH CURLEX MATTING VEGETATION TO REMAIN SHALL INCLUDE NOT ONLY HARDWOODS, BUT CEDARS AND UNDERBRUSH

__pba/Lil/19/Berton Creek/KIO/Const/MIO-Ph 6. Pope t Wooffleet Jul 22, 22 - 11:24 t Dete/Trime: Jul 23, 22 - 12:32:09





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EXHIBIT 3

WATER QUALITY PLAN / PERMANENT CONTROLS



, 11, 02,

Apr.

C5- REPLACEMENT SHEET



1.1 24 24 26, 02, e ₽



26, 24 02, 24 Apr. Usel Last Plot



LCRA HIGHLAND LAK	ES WATERSHED ORD	NANC	E
WATER QUALITY MAN	AGEMENT DESIGN TO	DOL	
Project	Barton Creek KI O P	H1	
Drainage Area	ID	No.	В
	Area	Acres	19.9
	Total IC	ac	6.1
	Impervious Cover	%	30.
1-year, 3-hour rainfall =		in	1.9
Compute Runoff Volume for	the 1-year storm =	in	0.6
Compute Water Quality Volu	ime (WQV) =	cf	43,32
Primary BMP (needs second	dary BMP in series)		
Sand Filter	Volume	cf	45,49





14:0

<u>|</u> | |

24 24

26, 02,

Apr.

е		Weir	Volume
	Cum. Volume	Discharge	(ac-ft)
-	-	0	0.000
2,253	12,253	0	0.281
7,844	30,097	0	0.691
9,643	49,740	0	1.142
1,443	71,182	180	1.634
	l		
60	Weir	8/1	
	Length		
	Where Cw is a	ssumed to t	be 3.

	ΝΔΝΟ	F
MENT DESIGN TO		
Barton Creek KLO P	H1	
ID	No.	С
Area	Acres	22.33
Total IC	ac	6.60
Impervious Cover	%	29.6
	in	1.93
ear storm =	in	0.58
QV) =	cf	47,125
IP in series)		
Volume	cf	49,481

BARTON CREEK SECTIONS 'K', 'L', & 'O'								
	BY DATE							
REVISIONS	DESCRIPTION							
	CTOBER, 2019 NO	GNED BY: ICN		NN BY: JCN	CKED BY:			
	IND THE PROPERTY OF	CAN D AND	ANI 8 7 C S 7 O		RY. SE LE	AN O'G	MAM ***	202
	ĺ			Dhone 512 430 4700	Eav 512 430 4716			
			LUA Engineering Inc.	7500 Rialto Boulevard	Ruilding II Suite 100	Austin Tevae 78735		
SF	ie f	IUI		2K 111)	
OF	=		1		•	SHE	EET	rs

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLAN, THE CITY OF AUSTIN MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER. REVIEWED BY:

DATE

DEVELOPMENT REVIEW AND INSPECTION DEPARTMENT

APPENDIX A

SAMPLE INSPECTION AND MAINTENANCE REPORT FORM

TPDES Construction Inspection and Maintenance Report Form Barton Creek Sections K, L, and O Phase 1

Project Name:

Permit Number:

Inspector's Name:
(attach qualifications
summary for each
inspector)

Amount of Last Rainfall:

Facility Operators: Date of Last Rainfall: Date of Inspection:

Inspection Notes Condition Area Inspected Changes Required (if any) Code*

*Condition Codes

- 01 The facility is in compliance with the storm water pollution prevention plan and permit
- 02 To be fixed or replaced within 24 hours.
- 03 To be fixed or replaced within 48 hours. 04 - To be fixed or replaced within 7 days.

Please note major construction activities taking place. Include dates when major grading activities and/or disturbances occur, dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated. Major observations should include: The locations of discharges of sediment or other pollutants from the site; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed. (Attach additional pages as required and/or attach daily construction reports.)

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Date:

Signature: Da	ate:
---------------	------

Signature:

\\ljaeng.com\shares\aust-work\a311 - parten ranch\czp\amenity\swppp\tpdes-insp-maint-form.xls

APPENDIX B

NAMES AND QUALIFICATIONS OF PERSONNEL MAKING INSPECTIONS APPENDIX C

CERTIFIED NOTICES OF INTENT AND ACKNOWLEDGEMENT CERTIFICATES

TCEQ Office Use Only Permit No.: RN: CN: Region:



TCEQ Notice of Intent (NOI) for Stormwater Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

IMPORTANT:

- Use the **INSTRUCTIONS** to fill out each question in this form.
- Use the <u>CHECKLIST</u> to make certain all you filled out all required information. Incomplete applications **WILL** delay approval or result in automatic denial.
- Once processed your permit can be viewed at: <u>http://www2.tceq.texas.gov/wq_dpa/index.cfm</u>

ePERMITS: Sign up now for online NOI: <u>https://www3.tceq.texas.gov/steers/index.cfm</u> Pay a \$225 reduced application fee by using ePermits.

APPLICATION FEE:

- You must pay the **\$325** Application Fee to TCEQ for the paper application to be complete.
- Payment and NOI must be mailed to separate addresses.
- Did you know you can pay on line?
 - Go to https://www3.tceq.texas.gov/epay/index.cfm
 - Select Fee Type: GENERAL PERMIT CONSTRUCTION STORM WATER DISCHARGE NOI APPLICATION

Is the Payment Voucher copy attached? Yes

RENEWAL: Is this NOI a Renewal of an existing General Permit Authorization? (Note: A permit cannot be renewed after June 3, 2013.)

Yes The Permit number is: TXR15

(If a permit number is not provided, a new number will be assigned.) No

1) **OPERATOR** (Applicant)

a) If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? You may search for your CN at: <u>http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch</u>

CN_____

TCEQ 20022 (03/05/2013)

b) What is the Legal Name of the entity (applicant) applying for this permit?

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

- d) What is the Operator Contact's (Responsible Authority) contact information and mailing address as recognized by the US Postal Service (USPS)? You may verify the address at: http://zip4.usps.com/zip4/welcome.jsp
 Phone #: _____ ext: Fax #:

E-mail:			
Mailing Address:			
Internal Routing (Mail Code, Etc.):			
City:	State:	ZIP Code:	
If outside USA: Territory:	Country Code:	Postal Code:	

- e) Indicate the type of Customer (The instructions will help determine your customer type): Individual Limited Partnership Sole Proprietorship-DBA Joint Venture General Partnership Corporation Trust Estate Federal Government State Government City Government
- **f)** Independent Operator? Yes No (If governmental entity, subsidiary, or part of a larger corporation, check "No".)
- **g)** Number of Employees: 0-20;

Other Government

101-250;

501 or higher

251-500; or

2) APPLICATION CONTACT

If TCEQ needs additional information regarding this application, who should be contacted?

Is the application contact the same as the applicant identified above?

21-100;

Yes, go to Section 3).	No, complete section below
	,

Prefix (Mr. Ms. Miss) <u>:</u> First/Last Name:		Suffix:	
Title:	Credential:	_	
TCEQ 20022 (03/05/2013)		Page 2	

Organization Name:			
Phone No.:	ext:	Fax Number:	
E-mail:			
Mailing Address:			
Internal Routing (Mail Code,	Etc.):		
City:	State:	ZIP Code:	
Mailing Information if outside	e USA:		
Territory:	Country Code:	Postal Code:	
-	-		

3) REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

If the site of your business is part of a larger business site or if other businesses were located at this site before yours, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at:

http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch.

If the site is found, provide the assigned Regulated Entity Reference Number and provide the information for the site to be authorized through this application below. The site information for this authorization may vary from the larger site information.

a) TCEQ issued RE Reference Number (RN): RN_____

- **b)** Name of project or site (the name known by the community where located):
- **c)** In your own words, briefly describe the primary business of the Regulated Entity: (Do not repeat the SIC and NAICS code):

d) County (or counties if > 1)

e) Latitude:______ Longitude:_____

f) Does the site have a physical address? Yes, complete Section A for a physical address. No, complete Section B for site location information.

Section A: Enter the physical address for the site.

Verify the address with USPS. If the address is not recognized as a delivery address, provide the address as identified for overnight mail delivery, 911 emergency or other online map tools to confirm an address.

Physical Address of	Project or Site:		
Street Number:	Street Name:		
City:		State:	ZIP Code:

Section B: Enter the site location information.

If no physical address (Street Number & Street Name), provide a written location access description to the site. (Ex.: located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)

City where the site is located or, if not in a city, what is the nearest city:

State:____

ZIP Code where the site is located:

4) GENERAL CHARACTERISTICS

a) Is the project/site located on Indian Country Lands?

Yes - If the answer is Yes, you must obtain authorization through EPA, Region 6. No

- **b)** Is your construction activity associated with a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources?
 - Yes If the answer is Yes, you may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization through EPA, Region 6. No
- c) What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site? Primary SIC Code: ______

d) If applicable, what is the Secondary SIC Code(s):_____

- e) What is the total number of acres disturbed?
- f) Is the project site part of a larger common plan of development or sale? Yes - If the answer is Yes, the total number of acres disturbed can be less than 5 acres.
 - No If the answer is No, the total number of acres disturbed must be 5 or more. If the total number of acres disturbed is less than 5 then the project site does not qualify for coverage through this Notice of Intent. Coverage will be denied. See the requirements in the general permit for small construction sites.
- **g)** What is the name of the first water body(s) to receive the stormwater runoff or potential runoff from the site?
- **h)** What is the segment number(s) of the classified water body(s) that the discharge will eventually reach?

i) Is the discharge into an MS4?

Yes - If the answer is Yes, provide the name of the MS4 operator below.

No

If Yes, provide the name of the MS4 operator:

Note: The general permit requires you to send a copy of the NOI to the MS4 operator.

j) Are any of the surface water bodies receiving discharges from the construction site on the latest EPA-approved CWA 303(d) List of impaired waters?

Yes - If the answer is Yes, provide the name(s) of the impaired water body(s) below.

No

If Yes, provide the name(s) of the impaired water body(s):

k) Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer as defined in 30 TAC Chapter 213?

Yes - If the answer is Yes, complete certification below by checking "Yes."

No

I certify that a copy of the TCEQ approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) is either included or referenced in the Stormwater Pollution Prevention Plan.

Yes

5) CERTIFICATION

Check Yes to the certifications below. Failure to indicate Yes to *ALL* items may result in denial of coverage under the general permit.

- **a)** I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000). Yes
- **b)** I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas. Yes
- **c)** I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed. Yes
- **d)** I certify that a Stormwater Pollution Prevention Plan has been developed, will be implemented prior to construction and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the general permit TXR150000. Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3 provided all obligations are confirmed by at least one operator. Yes

Operator Certification:

I,

Typed or printed name

Title

Date:

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature:

(Use blue ink)

TCEQ 20022 (03/05/2013)

NOTICE OF INTENT CHECKLIST (TXR150000)

- Did you complete everything? Use this checklist to be sure!
- Are you ready to mail your form to TCEQ? Go to the General Information Section of the Instructions for mailing addresses.

This checklist is for use by the operator to ensure a complete application. Missing information may result in denial of coverage under the general permit. (See NOI process description in the Instructions)

Application Fee:

If paying by Check:

Check was mailed **separately** to the TCEQs Cashier's Office. (See Instructions for Cashier's address and Application address.)

Check number and name on check is provided in this application.

If using ePay:

The voucher number is provided in this application or a copy of the voucher is attached. PERMIT NUMBER:

Permit number provided – if this application is for renewal of an existing authorization. OPERATOR INFORMATION - Confirm each item is complete:

OF ERATOR INFORMATION - Commune each item is complete.

Customer Number (CN) issued by TCEQ Central Registry Legal name as filed to do business in Texas (Call TX SOS 512/463-5555) Name and title of responsible authority signing the application Mailing address is complete & verifiable with USPS. <u>www.usps.com</u> Phone numbers/e-mail address Type of operator (entity type) Independent operator Number of employees

For corporations or limited partnerships – Tax ID and SOS filing numbers Application contact and address is complete & verifiable with USPS. <u>http://www.usps.com</u>

REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE - Confirm each item is complete:

Regulated Entity Reference Number (RN) (if site is already regulated by TCEQ) Site/project name/regulated entity

Latitude and longitude <u>http://www.tceq.texas.gov/gis/sqmaview.html</u> County

Site/project physical address. Do not use a rural route or post office box. Business description

GENERAL CHARACTERISTICS - Confirm each item is complete:

Indian Country Lands –the facility is not on Indian Country Lands Construction activity related to facility associated to oil, gas, or geothermal resources Standard Industrial Classification (SIC) Code <u>www.osha.gov/oshstats/sicser.html</u> Acres disturbed is provided and qualifies for coverage through a NOI Common plan of development or sale Receiving water body(s) Segment number(s) Impaired water body(s) MS4 operator Edwards Aquifer rule

CERTIFICATION

Certification statements have been checked indicating "Yes"

Signature meets 30 Texas Administrative Code (TAC) 305.44 and is original.

Notice of Intent (NOI) for Stormwater Discharges Associated with **Construction Activity under TPDES General Permit** (TXR150000)

General Information and Instructions

GENERAL INFORMATION

Where to Send the Notice of Intent (NOI):	
BY REGULAR U.S. MAIL	BY OVERNIGHT/EXPRESS MAIL
Texas Commission on	Texas Commission on
Environmental Quality	Environmental Quality
Stormwater Processing Center	Stormwater Processing Center
(MC228)	(MC228)
P.O. Box 13087	12100 Park 35 Circle
Austin, Texas 78711-3087	Austin, TX 78753

TCEQ Contact List:

Application – status and form questions: **Technical questions: Environmental Law Division: Records Management - obtain copies of forms:** Reports from databases (as available): Cashier's office:

512/239-3700, swpermit@tceq.texas.gov 512/239-4671, swgp@tceq.texas.gov 512/239-0600 512/239-0900 512/239-DATA (3282) 512/239-0357 or 512/239-0187

Notice of Intent Process:

When your NOI is received by the program, the form will be processed as follows:

- 1) **Administrative Review:** Each item on the form will be reviewed for a complete response. In addition, the operator's legal name must be verified with Texas Secretary of State as valid and active (if applicable). The address(s) on the form must be verified with the US Postal service as receiving regular mail delivery. Never give an overnight/express mailing address.
- 2) Notice of Deficiency: If an item is incomplete or not verifiable as indicated above, a notice of deficiency (NOD) will be mailed to the operator. The operator will have 30 days to respond to the NOD. The response will be reviewed for completeness.
- 3) Acknowledgment of Coverage: An Acknowledgment Certificate will be mailed to the operator. This certificate acknowledges coverage under the general permit. -or-

Denial of Coverage: If the operator fails to respond to the NOD or the response is inadequate, coverage under the general permit may be denied. If coverage is denied, the operator will be notified.

General Permit (Your Permit)

For NOIs submitted **electronically** through ePermits, provisional coverage under the general permit begins immediately following confirmation of receipt of the NOI form by the TCEQ.

For **paper** NOIs, provisional coverage under the general permit begins **7 days after a** completed NOI is postmarked for delivery to the TCEQ.

You should have a copy of your general permit when submitting your application. You may view and print your permit for which you are seeking coverage, on the TCEQ web site <u>http://www.tceq.texas.gov</u>. Search using key word TXR150000.

General Permit Forms

The Notice of Intent (NOI), Notice of Termination (NOT), and Notice of Change (NOC) (including instructions) are available in Adobe Acrobat PDF format on the TCEQ web site http://www.tceq.texas.gov.

Change in Operator

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted no later than 10 days prior to the change in Operator status.

TCEQ Central Registry Core Data Form

The Core Data Form has been incorporated into this form. Do not send a Core Data Form to TCEQ. After final acknowledgment of coverage under the general permit, the program will assign a Customer Number and Regulated Entity Number.

You can find the information on the Central Registry web site at

<u>http://www12.tceq.texas.gov/crpub/index.cfm</u>. You can search by the Regulated Entity (RN), Customer Number (CN) or Name (Permittee), or by your permit number under the search field labeled "Additional ID". Capitalize all letters in the permit number.

The Customer (Permittee) is responsible for providing consistent information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur. For General Permits, a Notice of Change form must be submitted to the program area.

Fees associated with a General Permit

Payment of the fee may be made by check or money order, payable to TCEQ, or through EPAY (electronic payment through the web).

Application Fee: This fee is required to be paid at the time the NOI is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit.

Mailed Payments:

Payment must be mailed under separate cover at one of the addresses below using the attached Application Fee submittal form. (DO NOT SEND A COPY OF THE NOI WITH THE APPLICATION FEE SUBMITTAL FORM)

BY REGULAR U.S. MAIL Texas Commission on Environmental Quality Financial Administration Division Cashier's Office, MC-214 P.O. Box 13088 Austin, TX 78711-3088

BY OVERNIGHT/EXPRESS MAIL Texas Commission on Environmental Quality Financial Administration Division Cashier's Office, MC-214 12100 Park 35 Circle Austin, TX 78753

ePAY Electronic Payment: http://www.tceq.texas.gov/epay

When making the payment you must select Water Quality, and then select the fee category "General Permit Construction Storm Water Discharge NOI Application". You must include a copy of the payment voucher with your NOI. Your NOI will not be considered complete without the payment voucher.

INSTRUCTIONS FOR FILLING OUT THE NOI FORM

Renewal of General Permit. Dischargers holding active authorizations under the expired General Permit are required to submit a NOI to continue coverage. The existing permit number is required. If the permit number is not provided or has been terminated, expired, or denied a new permit number will be issued.

1. Operator (Applicant)

a) Enter assigned Customer Number (CN)

TCEQ's Central Registry will assign each customer a number that begins with CN, followed by nine digits. **This is not a permit number, registration number, or license number**. If this customer has not been assigned a CN, leave the space for the CN blank. If this customer has already been assigned this number, enter the permittee's CN.

b) Legal Name

Provide the current legal name of the permittee, as authorized to do business in Texas. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at 512/463-5555, for more information related to filing in Texas. If filed in the county where doing business, provide a copy of the legal documents showing the legal name.

c) Person Signing Application

Provide information about person signing section 5) Certification.

d) Operator Contact's (Responsible Authority) Contact Information and Mailing Address

Provide a complete mailing address for receiving mail from the TCEQ. The address must be verifiable with the US Postal Service at <u>http://www.usps.com</u> for regular mail delivery (not overnight express mail). If you find that the address is not verifiable using the USPS web search, please indicate the address is used by the USPS for regular mail delivery.

The area code and phone number should provide contact to the operator. Leave Extension blank if not applicable.

The fax number and e-mail address are optional and should correspond to the operator.

e) Type of Customer (Entity Type)

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type. Note that the selected entity type also indicates the name that must be provided as an applicant for a permit, registration or authorization.

Sole Proprietorship – DBA

A sole proprietorship is a customer that is owned by only one person and has not been incorporated. This business may:

- be under the person's name
- have its own name (doing business as or d.b.a.)
- have any number of employees

If the customer is a Sole Proprietorship or DBA, the 'legal name' of the individual business 'owner' must be provided. The DBA name is not recognized as the 'legal name' of the entity. The DBA name may be used for the site name (regulated entity).

Individual

An individual is a customer who has not established a business, but conducts an activity that needs to be regulated by the TCEQ.

Partnership

- A customer that is established as a partnership as defined by the Texas Secretary of State Office (TX SOS). A Limited Partnership or Limited Liability Partnership (Partnership) is required to file with the Texas Secretary of State. A General Partnership or Joint Venture is not required to register with the state.
- **Partnership (Limited Partnership or Limited Liability Partnership):** A limited partnership is defined in the Act as a partnership formed by two or more persons under the provisions of Section 3 of the Uniform Limited Partnership Act (Art. 6132a, Revised Civil Statutes of Texas) and having as members one or more general partners and one or more limited partners. The limited partners as such are not bound by the obligations of the partnership. Limited partners may not take part in the day-to-day operations of the business. A Limited Partnership must file with the Texas Secretary of State. A registered limited liability partnership is a general or limited partnership that is registered with the Texas Secretary of State. The partnership's name must contain the words "Registered Limited Liability Partnership" or the abbreviation "L.L.P." as the last words or letters of its name.
- **General Partnership:** A general partner may or may not invest, participates in running the partnership and is liable for all acts and debts of the partnership and any member of it. A General Partnership does not have limited partners. For a General Partnership, there is no registration with the state or even written agreement necessary for a general partnership to be formed. The legal definition of a partnership is generally stated as "an association of two or more persons to carry on as co-owners a business for profit" (Revised Uniform Partnership Act § 101 [1994]).
- **Joint Venture:** A joint venture is but another name for a special partnership. It might be distinguished from a general partnership in that the latter is formed for the transaction of a general business, while a joint venture is usually limited to a single transaction. That is, a joint venture is a special combination of persons in the nature of a partnership engaged in the joint prosecution of a particular transaction for mutual benefit or profit.

Corporation

A customer meets all of these conditions:

- is a legally incorporated entity under the laws of any state or country
- is recognized as a corporation by the Texas Secretary of State

- has proper operating authority to operate in Texas.
- The corporation's 'legal name' as filed with the Texas Secretary of State must be provided as applicant. An 'assumed' name of a corporation is not recognized as the 'legal name' of the entity.

Government

Federal, state, county, or city government (as appropriate) The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization should not be included as a part of the 'legal name' as applicant.

Trust or Estate

A trust and an estate are fiduciary relationships governing the trustee/executor with respect to the trust/estate property.

Other Government

A utility district, water district, tribal government, college district, council of governments, or river authority. Write in the specific type of government.

f) Independent Entity

Check No if this customer is a subsidiary, part of a larger company, or is a governmental entity. Otherwise, check Yes.

g) Number of Employees

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the application.

h) Customer Business Tax and Filing Numbers

These are required for Corporations and Limited Partnerships. These are not required for Individuals, Government, and Sole Proprietors.

State Franchise Tax ID Number

Corporations and limited liability companies that operate in Texas are issued a franchise tax identification number. If this customer is a corporation or limited liability company, enter this number here.

Federal Tax ID

All businesses, except for some small sole proprietors, individuals, or general partnerships should have a federal taxpayer identification number (TIN). Enter this number here. Use no prefixes, dashes, or hyphens. Sole proprietors, individuals, or general partnerships do not need to provide a federal tax ID.

TX SOS Charter (filing) Number

Corporations and Limited Partnerships required to register with the Texas Secretary of State are issued a charter or filing number. You may obtain further information by calling SOS at 512/463-5555.

DUNS Number

Most businesses have a DUNS (Data Universal Numbering System) number issued by Dun and Bradstreet Corp. If this customer has one, enter it here.

2. APPLICATION CONTACT

Provide the name, title and communication information of the person that TCEQ can contact for additional information regarding this application.

3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) Regulated Entity Reference Number (RN)

A number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number. If this regulated entity has not been assigned an RN, leave this space blank.

If the site of your business is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search TCEQ's Central Registry to see if the larger site may already be registered as a regulated site at: http://www12.tceq.texas.gov/crpub/index.cfm?fuseaction=regent.RNSearch

If the site is found, provide the assigned Regulated Entity Reference Number (RN) and provide the information for the site to be authorized through this application. The site information for this authorization may vary from the larger site information.

An example is a chemical plant where a unit is owned or operated by a separate corporation that is accessible by the same physical address of your unit or facility. Other examples include industrial parks identified by one common address but different corporations have control of defined areas within the site. In both cases, an RN would be assigned for the physical address location and the permitted sites would be identified separately under the same RN.

b) Site/Project Name/Regulated Entity

Provide the name of the site as known by the public in the area where the site is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity name.

c) Description of Activity Regulated

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

d) County

Identify the county or counties in which the regulated entity is located.

e) Latitude and Longitude

Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to: http://www.tceq.texas.gov/gis/sqmaview.html or http://nationalmap.gov/ustopo

f) Site/Project (RE) Physical Address/Location Information

Enter the complete address for the site in Section A if the address can be validated through the US Postal Service. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate a site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

If a site does not have an address that includes a street (or house) number and street name, enter NO ADDRESS for the street name in Section A. In Section B provide a complete written location description. For example: "The site is located 2 miles west from intersection of Hwy 290 & IH35, located on the southwest corner of the Hwy 290 South bound lane." Provide the city (or nearest city) and zip code of the facility location.

4. GENERAL CHARACTERISTICS

a) Indian Country Lands

If your site is located on Indian Country Lands, the TCEQ does not have authority to process your application. You must obtain authorization through EPA, Region 6, Dallas. Do not submit this form to TCEQ.

b) Construction activity associated with facility associated with exploration, development, or production of oil, gas, or geothermal resources

If your activity is associated with oil and gas exploration, development, or production, you may be under jurisdiction of the Railroad Commission of Texas and may need to obtain authorization from EPA Region 6. For more information, see:

http://info.sos.state.tx.us/pls/pub/readtacSext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tlo c=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=30

Construction activities associated with a facility related to oil, gas or geothermal resources may include the construction of a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel.

Where required by federal law, discharges of stormwater associated with construction activities under the Railroad Commission's jurisdiction must be authorized by the EPA and the Railroad Commission of Texas, as applicable. Activities under Railroad Commission of Texas jurisdiction include construction of a facility that, when completed, would be associated with the exploration, development, or production of oil or gas or geothermal resources, such as a well site; treatment or storage facility; underground hydrocarbon or natural gas storage facility; reclamation plant; gas processing facility; compressor station; terminal facility where crude oil is stored prior to refining and at which refined products are stored solely for use at the facility; a carbon dioxide geologic storage facility under the jurisdiction of the Railroad Commission of Texas; and a gathering, transmission, or distribution pipeline that will transport crude oil or natural gas, including natural gas liquids, prior to refining of such oil or the use of the natural gas in any manufacturing process or as a residential or industrial fuel. The Railroad Commission of Texas also has jurisdiction over stormwater from land disturbance associated with a site survey that is conducted prior to construction of a facility that would be regulated by the Railroad Commission of Texas. Under 33 U.S.C. §1342(l)(2) and §1362(24), EPA cannot require a permit for discharges of stormwater from "field activities or operations associated with {oil and gas} exploration, production, processing, or treatment operations, or transmission facilities, including activities necessary to prepare a site for drilling and for the movement and placement of drilling equipment, whether or not such field activities or operations may be considered to be construction activities" unless the discharge is contaminated by contact with any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the facility. Under §3.8 of this title (relating to Water Protection), the Railroad

Commission of Texas prohibits operators from causing or allowing pollution of surface or subsurface water. Operators are encouraged to implement and maintain best management practices (BMPs) to minimize discharges of pollutants, including sediment, in stormwater during construction activities to help ensure protection of surface water quality during storm events.

c) Primary Standard Industrial Classification (SIC) Code

Provide the SIC Code that best describes the construction activity being conducted at this site.

Common SIC Codes related to construction activities include:

- 1521 Construction of Single Family Homes
- 1522 Construction of Residential Bldgs. Other than Single Family Homes
- 1541 Construction of Industrial Bldgs. and Warehouses
- 1542 Construction of Non-residential Bldgs, other than Industrial Bldgs. and Warehouses
- 1611 Highway and Street Construction, except Highway Construction
- 1622 Bridge, Tunnel, and Elevated Highway Construction
- 1623 Water, Sewer, Pipeline and Communications, and Power Line Construction For help with SIC Codes, go to:

http://www.osha.gov/pls/imis/sicsearch.html

d) Secondary SIC Code

Secondary SIC Code(s) may be provided. Leave blank if not applicable. For help with SIC Codes, go to:

http://www.osha.gov/pls/imis/sicsearch.html

e) Total Number of Acres Disturbed

Provide the approximate number of acres that the construction site will disturb. Construction activities that disturb less than one acre, unless they are part of a larger common plan that disturbs more than one acre, do not require permit coverage. Construction activities that disturb between one and five acres, unless they are part of a common plan that disturbs more than five acres, do not require submission of an NOI. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

If you have any questions about this item, please contact the stormwater technical staff by phone at (512)239-4671 or by email at swgp@tceq.texas.gov.

f) Common Plan of Development

Construction activities that disturb less than five acres do not require submission of an NOI unless they are part of a common plan of development or for sale where the area disturbed is five or more acres. Therefore, the estimated area of land disturbed should not be less than five, unless the project is part of a larger common plan that disturbs five or more acres. Disturbed means any clearing, grading, excavating, or other similar activities.

For more information on "What is a common plan of development?" go to: www.tceq.texas.gov/permitting/stormwater/common_plan_of_development_steps.html

For further information, go to the TCEQ stormwater construction webpage at: www.tceq.texas.gov/goto/construction and search for "Additional Guidance and Quick Links". If

you have any further questions about this item, please call the stormwater technical staff at (512)239-4671.

g) Identify the water body(s) receiving stormwater runoff

The stormwater may be discharged directly to a receiving stream or through a MS4 from your site. It eventually reaches a receiving water body such as a local stream or lake, possibly via a drainage ditch. You must provide the name of the water body that receives the discharge from the site (a local stream or lake).

If your site has more than one outfall you need to include the name of the first water body for each outfall, if they are different.

h) Identify the segment number(s) of the classified water body(s)

Identify the classified segment number(s) receiving a discharge directly or indirectly. Go to the following link to find the segment number of the classified water body where stormwater will flow from the site: www.tceq.texas.gov/waterquality/monitoring/viewer.html

You may also find the segment number in TCEQ publication GI-316: <u>www.tceq.texas.gov/publications/gi/gi-316</u>

If the discharge is into an unclassified receiving water and then crosses state lines prior to entering a classified segment, select the appropriate watershed:

- 0100 (Canadian River Basin)
- 0200 (Red River Basin)
- 0300 (Sulfur River Basin)
- 0400 (Cypress Creek Basin)
- 0500 (Sabine River Basin)

Call the Water Quality Assessments section at (512)239-4671 for further assistance.

i) Discharge into MS4 – Identify the MS4 Operator

The discharge may initially be into a municipal separate storm sewer system (MS4). If the stormwater discharge is into an MS4, provide the name of the entity that operates the MS4 where the stormwater discharges. An MS4 operator is often a city, town, county, or utility district, but possibly can be another form of government. Please note that the Construction General Permit requires the Operator to supply the MS4 with a copy of the NOI submitted to TCEQ. For assistance, you may call the technical staff at (512)239-4671.

j) Surface Water bodies on list of impaired waters – Identify the impaired water body(s)

Indicate Yes or No if any surface water bodies receiving discharges from the construction site are on the latest EPA-approved CWA 303(d) List of impaired waters. Provide the name(s) of surface water bodies receiving discharges or potential discharges from the construction site that are on the latest EPA-approved CWA 303(d) List of impaired waters. The EPA-approved CWA 303(d) List of impaired waters. The EPA-approved CWA 303(d) List of impaired waters in Texas can be found at:

www.tceq.texas.gov/waterquality/assessment/305_303.html

NOTE: Do not use any "draft" documents.

k) Discharges to the Edwards Aquifer Recharge Zone and Certification

See maps on the TCEQ website to determine if the site is located within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer at: www.tceq.texas.gov/field/eapp/viewer.html

If the discharge or potential discharge is within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, a site specific authorization approved by the Executive Director under the Edwards Aquifer Protection Program (30 TAC Chapter 213) is required before construction can begin. The certification must be answered "Yes" for coverage under the Construction General Permit. The TCEQ approved plan must be readily available for TCEQ staff to review at the time that the NOI is submitted.

The general permit requires the approved Contributing Zone Plan or Water Pollution Abatement Plan to be included or referenced as a part of the Stormwater Pollution Prevention Plan.

For questions regarding the Edwards Aquifer Protection Program, contact the appropriate TCEQ Regional Office. For projects in Hays, Travis and Williamson Counties: Austin Regional Office, 12100 Park 35 Circle, Austin, TX 78753, 512-339-2929. For Projects in Bexar, Comal, Kinney, Medina and Uvalde Counties: TCEQ San Antonio Regional Office, 14250 Judson Rd., San Antonio, TX 78233-4480, 210-490-3096.

5. CERTIFICATIONS

Failure to indicate **Yes** to ALL of the certification items may result in denial of coverage under the general permit.

a) Certification of Understanding the Terms and Conditions of Construction General Permit (TXR150000)

Provisional coverage under the Construction General Permit (TXR150000) begins 7 days after the completed paper NOI is postmarked for delivery to the TCEQ. (Electronic applications submitted through ePermits have immediate provisional coverage). You must obtain a copy and read the Construction General Permit before submitting your application. You may view and print the Construction General Permit for which you are seeking coverage at the TCEQ web site: <u>www.tceq.texas.gov/goto/construction</u>

b) Certification of Legal Name

The full legal name of the applicant as authorized to do business in Texas is required. The name must be provided exactly as filed with the Texas Secretary of State (SOS), or on other legal documents forming the entity, that is filed in the county where doing business. You may contact the SOS at (512)463 5555, for more information related to filing in Texas.

c) Understanding of Notice of Termination

A permittee shall terminate coverage under this Construction General Permit through the submittal of a NOT when the operator of the facility changes, final stabilization has been reached, the discharge becomes authorized under an individual permit, or the construction activity never began at this site.

d) Certification of Stormwater Pollution Prevention Plan

The SWP3 identifies the areas and activities that could produce contaminated runoff at your site and then tells how you will ensure that this contamination is mitigated. For example, in describing your mitigation measures, your site's plan might identify the devices that collect and filter stormwater, tell how those devices are to be maintained, and tell how frequently that maintenance is to be carried out. You must develop this plan in accordance with the TCEQ general permit requirements. This plan must be developed and implemented before you complete this NOI. The SWP3 must be available for a TCEQ investigator to review on request.

Operator Certification:

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

IF YOU ARE A CORPORATION:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(1) (see below). According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:

The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer as required by the administrative code.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at (512)239-0600.

30 Texas Administrative Code

§305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

APPENDIX D

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SMALL-BUSINESS HANDBOOK FOR SPILL RESPONSE (RG-285)



TNRCC REGULATORY GUIDANCE

Pollution Cleanup Division RG-285 June 1997

SUBJECT:

Small-Business Handbook for Spill Response

Purpose

The purpose of this handbook is to help small businesses to comply with the Texas Natural Resource Conservation Commission's (TNRCC's) Spill Rule. From this document, you will learn when and how to report a spill and how to enlist the aid of the TNRCC and other authorities, as needed, in responding to a spill. This handbook is for guidance only; it does not replace or supersede the official rules and regulations.

The purpose of the Spill Rule, which is found in Title 30 Texas Administrative Code (30 TAC) Chapter 327, is to deal responsibly with threats to human health or the environment posed by incidents that may cause the contamination of groundwater or surface water. The rule sets guidelines for initial notification, response actions, and follow-up reports that the responsible person must follow when a discharge or spill occurs.

The Spill Rule—in a Nutshell

The Spill Rule requires the party responsible for causing a spill that by its nature and size presents the threat of contaminating groundwater or surface water to:

- control and contain the spill (or see that this is done); •
- clean up the results of the spill (or see that this is • done):
- notify the appropriate authorities, which may range from the local fire department to the TNRCC, depending on the threat posed by the spill;
- make follow-up reports to the TNRCC about the continuing progress or completion of the cleanup.

To explain how to comply with the Spill Rule, this document will address the following questions:

- What is a spill (as far as the Spill Rule is concerned)?
- What should I do when the spill is serious?

- What about less serious spills?
- What kinds of spills need to be reported?
- What should my report say?
- Who can tell me what is in my spill?
- How can the TNRCC help me?
- What happens when I report a spill?
- What kinds of spills are not covered by this rule?
- Where do I look for more information?

What Is a Spill?

As defined in the rule, a spill is any incident in which oil, hazardous substances, industrial waste, or "other substances" contaminate or may contaminate surface water or groundwater in the state of Texas. Because substances spilled on the ground may find their way into groundwater, lakes, rivers, or streams, the definition includes spills on the ground as well as spills that go directly into water.

The definition of a "discharge or spill" is broad; it covers just about any accidental action or oversight that leads to the possible contamination of water. The following examples represent only a few of the many different kinds of incidents that this definition covers:

- A worker at a pest control service discovers that liquid pesticide has leaked from a storage tank into the ground.
- A landscaper rinses tanks that held herbicide, and then the rinse water escapes into a storm sewer.
- A truck loaded with avocados overturns, spilling its cargo and its fuel on the highway.
- A worker at a boat repair shop accidentally pours a solvent-based varnish remover on pavement. Most of the solvent evaporates quickly.
- A trenching crew hits a buried pipeline, causing oil to leak into the surrounding soil.

For simplicity, the term "spill" will be used in this document to refer to any incident covered by the definition

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given in 30 TAC Section (§) 327.2 for *discharge or spill*. Certain kinds of incidents that might threaten water supplies are covered by other rules or are under the authority of other agencies. Incidents that are not covered by the Spill Rule are described at the end of this document.

What Should I Do When the Spill Is Serious?

Whenever a spill or discharge involves an imminent threat to human health, notify local emergency authorities *immediately* and cooperate with them in responding to the spill. "Local emergency authorities" usually means the local fire department and law enforcement agency, but could also mean the local fire marshal, health department, or emergency planning committee.

The rule also calls for the responsible person to take certain reasonable steps to respond to the spill:

- Get to the scene, or make sure that hired response personnel get to the scene.
- Begin efforts to stop the discharge or spill.
- Minimize the impact of the spill to public health, surface water, and the ground or subsurface soil.
- Neutralize the effects of the incident.
- Remove the discharged or spilled substances.
- Manage wastes associated with the spill and cleanup.

What about Less Serious Spills?

Spills that do not present an imminent threat to human health still must be cleaned up. Even if the spill is small enough that a reporting requirement is not triggered, the person responsible for the spill must make sure that the spill is cleaned up.

What Kinds of Spills Need to Be Reported?

Whether a spill needs to be reported to the TNRCC depends on the material spilled, how much of it is spilled, and where it is spilled. General guidelines for determining whether a spill must be reported, based on this rule and federal standards, appear in Table 1. Spills involving less than 1 pound of material, except for oil spills, do not need to be reported to the TNRCC. They must be reported to local authorities if they pose an imminent threat to public health.

If the amount of material spilled or discharged within any 24-hour period is equal to or greater than the amount indicated in Table 1, the rule calls for the party responsible for the spill to notify the TNRCC within 24 hours. There are three ways to satisfy this reporting requirement by phone:

• Call 1-800-832-8224 (the Environmental Response

Hot Line). This line is answered 24 hours a day.

- Call the TNRCC Spill Reporting Hot Line, which is also answered 24 hours a day, at 512/463-7727.
- During regular business hours, call the TNRCC regional office that serves the county in which the spill occurred.

The Spill Rule also allows the responsible person to use other reasonable methods to provide this initial notification.

Spills of a Single Hazardous Substance

Whenever an individual hazardous substance is spilled, determining whether a reportable quantity has been spilled only involves developing a reliable estimate of how much material was spilled and comparing that value with the reportable quantity (RQ) found in the column headed "Final RQ" in Table 302.4 of Title 40 Code of Federal Regulations (40 CFR) Part 302.

Spills of Mixtures

Whenever a mixture that contains a hazardous substance is spilled, a federal rule, often called the Mixture Rule, is used to determine whether a reportable quantity has been spilled. The wording of the Mixture Rule makes it particularly important for small businesses to know as much as possible about the composition of the materials they use or handle.

According to the Mixture Rule, if a mixture is known to contain a hazardous substance, but the amount of that substance in the mixture is not known, then all of the material spilled is assumed to be the hazardous substance for the purpose of determining whether a reportable spill has occurred. On the other hand, if the composition of the mixture is known, that information is used to determine whether the amount of mixture spilled contains a reportable quantity of the hazardous substance.

To see how the Mixture Rule works, let's look at two possible outcomes involving the spill of 1 quart of an insecticide containing aldrin. The RQ for aldrin is 1 pound.

First possible outcome. Assume that the person responsible for the spill knows only that the insecticide contains aldrin, not how much aldrin is in the insecticide. According to the Mixture Rule, all of the material spilled must be assumed to be aldrin under these circumstances. A quart of a solution weighs about 2 pounds, which is greater than the RQ for aldrin. This spill must be reported.

Second possible outcome. Now assume that the person responsible for the spill knows that the insecticide contains not more than 1 percent aldrin by weight. According to the Mixture Rule, this person should then calculate how much aldrin could have been in the quart of solution spilled:

2 lb solution \times 1 lb aldrin/100 lb = 0.02 lb aldrin

If aldrin is the only hazardous substance in the mixture, then this spill does not have to be reported according to the Comprehensive Emergency Response, Compensation, and Liability Act (CERCLA). Be sure to do this sort of calculation for all the substances in the mixture, even if the product label describes them as "inert" or "filler."

The difference between the outcomes in the above example is not *what* was spilled, but *what was known* about the material that was spilled. Because one business had more information available about the materials it uses, its employee was able to determine that the spill was insignificant without contacting the TNRCC.

-	SITE OF SPILL	
TYPE OF SPILL	On Land	In Water
Hazardous substance If CERCLA RQ = 1–100 lb If CERCLA RQ > 100 lb	CERCLA RQ CERCLA RQ	CERCLA RQ 100 lb
Crude oil	210 gal	Enough to form a sheen
Used oil or petroleum product At a PST exempt facility* All others	210 gal 25 gal	Enough to form a sheen Enough to form a sheen
Oil other than crude oil, used oil, or petroleum product	210 gal	Enough to form a sheen
Other substances	No RQ	100 lb
Industrial solid waste	No RQ	100 lb

Table 1. Reportable Quantities (RQs) According to the Spill Rule

NOTE: This table applies only to the reporting of spills and discharges according to the Spill Rule, 30 TAC §§327.1–327.5. To find values of CERCLA RQs for hazardous substances, please refer to 40 CFR Table 302.4.

*The term "PST exempt facility" refers to facilities that are exempt from the Aboveground Storage Tank Program. Petrochemical plants, petroleum refineries, and electricity generation, transmission, and distribution facilities are some examples of PST exempt facilities.

What Should My Report Say?

There are a number of different levels of reporting, so let's go through them one at a time.

Initial Notification

Within 24 hours, report the following information as best it is known:

- Your name, address, and telephone number (as the person making the report)
- The date, time, and location of the spill
- A specific description of the substance or substances spilled
- An estimate of how much was spilled
- The duration of the incident
- The name of the body of water affected or threatened by the spill
- The source of the spill

- A description of the extent of actual or potential water pollution or harmful impacts to the environment
- An identification of any environmentally sensitive areas or natural resources at risk
- The name, address, and telephone number of the responsible person (if not you)
- The name, address, and telephone number of the contact person at the site of the spill (if not you)
- A description of any action that has been taken, is being taken, or will be taken to contain and respond to the spill
- Any known or anticipated health risks
- The identity of any governmental authorities or agencies that are already responding to the spill
- Any other information that may be significant to the response action

The Spill Rule requires only that you provide all of the

above information that you know—by phone, in person, or in writing. The rule does not require that a written report be on a standard form. You may decide to develop your own form, but the rule also allows you to use the reporting form of any other agency that requires you to report the spill.

If you use the reporting form of another agency and it does not provide all of the information described above, you must add the rest of the required information on a separate sheet.

Update Notification

If anything happens that would trigger a change in the response to the spill—for better or for worse—notify the agency as soon as possible.

Correction of Records

If you report a spill and later decide that the spill did not have to be reported, you may send the regional office a letter to show your reasoning. Be sure to include all the information staff will need to understand your new decision.

If, after reviewing your letter, the regional office staff agrees that the spill was not reportable, that determination will be added to the agency records. If staff disagrees with your decision, the agency will notify you (that is, the responsible person) within 30 days.

Other Required Notice

In addition to notifying the TNRCC and local governmental authorities, make a reasonable attempt to notify the owner and occupants of any property adversely affected by the spill. Provide this notice as soon as possible, but no later than two weeks after discovering the spill.

Notifying the TNRCC satisfies the federal requirement to notify the State Emergency Response Commission, but does not satisfy the notification requirements of any permit or any other local, state, or federal law.

Reporting the spill to the Environmental Response Hot Line (1-800-832-8224) satisfies the initial notification requirements of the Spill Rule and the Texas Water Code. Depending on the material spilled, there may be other reporting requirements.

Who Can Tell Me What Is in My Spill?

It is the responsibility of a business to ensure that its employees know the nature and contents of the materials they handle or use. It is not feasible for any document to cover the full range of possible combinations of substances. The manufacturer or supplier of a product may be a good source of information about the contents and specific formulation of a proprietary mixture.

Often it is not necessary to know the precise formula of a mixture to know how to classify it under the Spill Rule. The TNRCC regional office is one of a number of possible resources that could help you classify at least some materials into broad reporting categories according to the Spill Rule and CERCLA.

How Can the TNRCC Help Me?

Through your local regional office, the Small Business Assistance Program (1-800-447-2827), and the Emergency Response Section (512/239-2507), the TNRCC can help you prepare for spills before they happen as well as respond to them appropriately when they do.

If minor but reportable spills are an unavoidable part of your business, you might call your regional office to investigate the possibility of making one report on a regular schedule (e.g., once a month) to cover all minor spills that occur in that time frame. Depending on the individual situation, the regional manager may approve such an alternative notification plan for a fixed installation. Such a plan would require the written approval of the regional manager.

Your regional manager may also permit you to notify the agency by fax of spills that occur during regular business hours. If you do get permission to notify by fax, you may want to prepare a form that employees can fill out quickly when a spill occurs. You could print information that will not change (e.g., location of the facility, the name of the surface water affected, if any, etc.) as part of the form itself.

What Happens When I Report a Spill?

A number of things:

- Of greatest importance, you ensure that all resources that are available and needed to minimize the impact of the spill are put to use.
- Based on the information you provide, the regional staff of the TNRCC can help you to determine whether the spill is serious and, regardless of whether it is serious, the best ways to control the spill and minimize the damage it may cause.
- If necessary, the TNRCC can help coordinate the response to a spill that poses an imminent threat to public health or sources of water.
- You reduce the range of penalties that could be assessed against you or your business as a result of the spill.

Reporting a spill is not the same as admitting that pollution
has occurred (see "Correction of Records" above).

Does This Rule Cover All Spills?

No, it doesn't. Certain spills would fall under the jurisdiction of other agencies in the state of Texas. The following kinds of spills, discharges, or emissions are covered by other rules:

- Oil spills in or near coastal waters. The Railroad Commission of Texas (RRC) regulates such spills when they are relatively small (240 barrels or less). The Texas General Land Office (GLO) has jurisdiction for larger incidents affecting coastal waters. The term *coastal waters* basically includes the Gulf of Mexico and all of its bays, inlets, and estuaries, as well as portions of their navigable tributaries. A detailed definition of *coastal waters* appears in the GLO Rules, 31 TAC §19.2. When reporting a spill, don't worry about this difference in jurisdiction. Use the Environmental Response Hot Line (1-800-832-8224) to report the spill, and your report will be forwarded to the appropriate agency.
- Spills or waste discharges regulated by the RRC. This essentially means incidents related to the exploration, production, and development of oil, gas, geothermal resources, and uranium. Specific details can be found in the Texas Water Code §26.131.
- Emissions only to air. If you spill a liquid and it then evaporates, the spill is not an "emission only to air." A spill that evaporates is covered by the Spill Rule and may be covered by other regulations.
- Lawful discharges or waste disposal. This category includes the lawful placement of waste or accidental discharge of material into a solid waste management unit registered or permitted under 30 TAC Chapter 335 Subchapter A; any discharge that is covered by a specific permit, order, or rule issued under U.S. or Texas law, if that permit, order, or rule provides another specific reporting requirement; and discharges or spills that are continuous and stable in nature, and are reported to the U.S. Environmental Protection Agency according to 40 CFR §302.8.
- The lawful application of fertilizers, pesticides, or other materials to land or water.
- Certain activities associated with aboveground and underground storage tanks, which are covered by Texas Water Code Chapter 26 Subchapter I.
- Discharges or spills that occur during the normal course of rail transportation.

Related Literature

Consider reviewing the following documents or having them available as reference materials.

State of Texas Oil and Hazardous Substances Spill Contingency Plan. This document, currently being developed by the cooperation of all state agencies that participate in spill response, is a compilation of all state rules that cover spills. When it is available, you may obtain copies from the TNRCC Publications Unit (512/239-0028).

State of Texas Coastal Oil Spill Prevention and Response. 31 TAC Chapter 19. This document comprises the GLO's oil spill rules.

The following documents are available from the U.S. Government Printing Office:

Title 40 Code of Federal Regulations Part 302. This is a portion of the federal law dealing with the handling of hazardous substances.

National Oil and Hazardous Substances Pollution Contingency Plan. 40 CFR Part 300. This document covers all federal rules on spills.

Emergency Planning and Notification. 40 CFR Part 355. The regulation establishes the list of extremely hazardous substances, threshold planning quantities, and facility notification responsibilities necessary for developing and implementing state and local emergency response plans.

Hazardous Chemical Reporting and Community Right-to-Know. These regulations establish reporting requirements that provide the public with important information about the hazardous chemicals in their communities.

Toxic Substances Control Act. 40 CFR Parts 700–766. Several specific constituents, such as PCBs and dioxins, require additional regulation because of their direct impact on human health and the environment. The TSCA specifies procedures for handling these materials. Additional reporting may also be required.

APPENDIX E

TPDES GENERAL PERMIT NO. TXR150000 FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

Texas Commission on Environmental Quality

P.O. Box 13087, Austin, Texas 78711-3087



GENERAL PERMIT TO DISCHARGE UNDER THE

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

under provisions of Section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code

This permit supersedes and replaces TPDES General Permit No. TXR150000, issued March 5, 2008

Construction sites that discharge stormwater associated with construction activity

located in the state of Texas

may discharge to surface water in the state

only according to monitoring requirements and other conditions set forth in this general permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ or Commission), the laws of the State of Texas, and other orders of the Commission of the TCEQ. The issuance of this general permit does not grant to the permittee the right to use private or public property for conveyance of stormwater and certain non-stormwater discharges along the discharge route. This includes property belonging to but not limited to any individual, partnership, corporation or other entity. Neither does this general permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This general permit and the authorization contained herein shall expire at midnight, five years from the permit effective date.

EFFECTIVE DATE: March 5, 2013

ISSUED DATE: FEB 19 2013

Shaw

mmission

Agent Authorization Form

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

l	Erin D. Pickens Print Name							
	<u>Senior Vice President of Holden Hills GP, L.L.C., a Texas</u> <u>limited liability company, General Partner of Holden Hills, L.P.,</u> Title - Owner/President/Other							
of	Holden Hills, L.P. a Texas limited partnership Corporation/Partnership/Entity Name							
have authorized	Lauren Crone, P.E. Print Name of Agent/Engineer							
of	LJA Engineering, 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:

Holden Hills, L.P., a Texas limited partnership By: Holden Hills GP, L.L.C., a Texas limited liability company, General Partner

By: Erin D. Pickens, Senior Vice President

Erin D Pickens Applicant's Signature

02/01/2024 Date

THE STATE OF TEXAS §

County of TRAVIS §

BEFORE ME, the undersigned authority, on this day personally appeared <u>Erin D. Pickens, Senior</u> Vice President of Holden Hills GP, L.L.C., a Texas limited liability company, General Partner of Holden Hills, L.P., a Texas limited partnership 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 1st day of February, 2024.



LETICIA L. SILVA Notary Public, State of Texas Notary ID# 1975321 My Commission Expires FEBRUARY 23, 2027

Leticia L. Silva Typed or Printed Name of Notary

MY COMMISSION EXPIRES: February 23, 2027

Application Fee Form

Texas Commission on Environmental Quality							
Name of Proposed Regulated Entit	y: <u>Barton Creek Sectio</u>	ons K, L and O Phase 1					
Regulated Entity Location: Tecoma Circle to Lost Creek Boulevard							
Name of Customer: Holden Hills, Li	2						
Contact Person: Erin Pickens	Phor	ne:					
Customer Reference Number (if issued):CN <u>606123644</u>							
Regulated Entity Reference Number	er (if issued):RN <u>11143</u>	<u>5921</u>					
Austin Regional Office (3373)							
Hays		[] wi	lliamson				
San Antonio Regional Office (3362)		manison				
Bexar	Medina		alde				
Comal	Kinney						
Application fees must be paid by ch	eck. certified check. c	or money order navabi	le to the Texas				
Commission on Environmental Qua	ality. Your canceled c	heck will serve as your	receint This				
form must be submitted with your	fee payment. This pa	ayment is being submit	tted to:				
🔀 Austin Regional Office	∏ Si	an Antonio Regional O	ffice				
🔲 Mailed to: TCEQ - Cashier	o	vernight Delivery to: T	CEQ - Cashier				
Revenues Section	1	2100 Park 35 Circle	•				
Mail Code 214	В	uilding A. 3rd Floor					
P.O. Box 13088	А	ustin, TX 78753					
Austin, TX 78711-3088	(5	512)239-0357					
Site Location (Check All That Apply):						
Recharge Zone	Contributing Zone	🗌 Transit	ion Zone				
Type of Plan	1	Size	Fee Due				
Water Pollution Abatement Plan, C	Contributing Zone						
Plan: One Single Family Residentia	Dwelling	Acres	\$				
Water Pollution Abatement Plan, C	Contributing Zone						
Plan: Multiple Single Family Reside	ntial and Parks	Acres	\$				
Water Pollution Abatement Plan, C	Contributing Zone						
Plan: Non-residential	341.51 Acres	\$ 10,000					
Sewage Collection System		L.F.	\$				
Lift Stations without sewer lines		Acres	\$				
Underground or Aboveground Stor	age Tank Facility	Tanks	\$				
Piping System(s)(only)		Each	\$				
Exception		Each	\$				
Extension of Time		Each	\$				

Signature: Lawen Geore

Date: 3/15/24

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	\$1,500 \$3,000 \$4,000 \$6,500
	100 < 500 ≥ 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



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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided)										
	New Permit, Registration or Authorization (Core Data Form should be submitted with the program application)									
Renewa	I (Core Da	ata Form should be submitted v	vith the rene	wal form)		⊴ Otl	her Mod	ificatio	n	
2. Attachme	2. Attachments Describe Any Attachments: (ex. Title V Application, Waste Transporter Application, etc.)									
⊠Yes □No CZP Modification and associated attachments										
3. Customer	3. Customer Reference Number (<i>if issued</i>) Follow this link to search for CN or RN numbers in									
CN 6061	23644		<u>Centra</u>	al Registry*	*	RN	11143592	21		
SECTION	SECTION II: Customer Information									
5. Effective	5. Effective Date for Customer Information Updates (mm/dd/yyyy)									
6. Customer	Role (Prop	osed or Actual) – as it relates to th	e <u>Regulated</u>	<u>Entity</u> liste	d on this	s form. I	Please check c	nly <u>one</u> of	the following:	
⊠Owner □Occupatio	onal License	Operator Operator Responsible Party		Owner & 0 /oluntary	Operato Cleanu	r p Appl	licant 🗌]Other:		
7. General C	ustomer Ir	formation								
New Cus Change ir ** If "No Cha	Image: New Customer Image: Update to Customer Information Image: Change in Regulated Entity Ownership Image: Image: Change: Image: Change: Image: Change: Image: Change: Image: Change:									
8. Type of C	ustomer:	Corporation		Individual			Sole Pr	oprietorsh	iip- D.B.A	
City Gove	ernment	County Government		Federal G	overnm	nent	State G	overnmer	nt	
Other Go	vernment	General Partnership	Limited Partnership							
9. Customer	Legal Nan	ne (If an individual, print last name	e first: ex: Doe	e, John)	<u>lf ne</u> belo	w Cus w	tomer, enter p	revious Cu	<u>istomer</u>	End Date:
Holden H	ills, L.P.									
	212 La	vaca Street, Suite 300			_					
10. Mailing										
Address.	City	Austin	State	TX	Z	IP [/]	78701		ZIP + 4	
11. Country	Mailing Inf	ormation (if outside USA)	ł		12. E-M	ail Ad	Idress (if applic	able)		
13. Telephone Number 14. Extension or Code 15. Fax Number (if applicable)										
(512) 478-5788 () -										
16. Federal Tax ID (9 digits) 17. TX State Franchise Tax ID (11 digits) 18. DUNS Number(if applicable) 19. TX SOS Filing Number (if applicable)										
20. Number	of Employ	ees		1			21.	Independ	lently Owne	ed and Operated?
0-20	21-100	101-250 251-500	🗌 501 a	and highe	r			۲	(es	🗌 No

SECTION III: Regulated Entity Information

22. General Regulated Entity Information (If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)						
New Regulated Entity	Update to Regulated Entity Name	Update to Regulated Entity Information	No Change** (See below)			
**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.						
23. Regulated Entity Name (name of the site where the regulated action is taking place)						
Barton Creek Sections K, L, and O Phase 1						

24. Street Address											
of the Regulated											
<u>(No P.O. Boxes)</u>	City			State		7IP				7IP +	4
	212 I	avaga Strag	+	otato							•
25. Mailing			ι								
Address:	Suite	300					1				
	City	Austin		State	TX	ZIP	787	701		ZIP +	4
26. E-Mail Address:											
27. Telephone Numbe	r			28. Extension	n or Code	29.	Fax N	Number (if a	pplicable)		
(512) 478-5788						()	-			
30. Primary SIC Code (4 digits) 31. Secondary SIC			ry SIC C	code (4 digits)	32. Primary N (5 or 6 digits)	VAICS	Code	33. (5 o	Second r 6 digits)	lary N	AICS Code
1611		1623			23411			23	491		
34. What is the Prima	ry Busin	ess of this enti	ty? (Pl	lease do not repe	eat the SIC or NA	AICS de	scriptic	on.)			
Construction of r	oads ar	nd associated	d utiliti	ies.							
Q	uestions	34 – 37 addres	ss aeoai	raphic location	n. Please refe	r to the	e instr	uctions for	applica	bilitv.	
35. Description to Physical Location:	The p	project will e	extend	from where	e Tecoma C	Circle	curr	ently end	s to Lo	ost C	reek Boulevard
26 Nearoot City				County			Stata			Nee	root 7ID Codo
So. Nearest City				County St		Jiale					
Austin				I ravis			IX			/8/	01
37. Latitude (N) In D	ecimal:	30.25532	- · ·		38. Longit	ude (W	/) In	Decimal:	-97.8	5927	
Degrees	Minutes		Seconds		Degrees			Minutes			Seconds
30 15 58.464				64	-97			51			12.492
39. TCEQ Programs an updates may not be made. If y	d ID Nur our Progra	nbers Check all Pi im is not listed, chec	rograms ar k other and	nd write in the perm d write it in. See th	iits/registration nur e Core Data Form	nbers the instructi	at will be ons for a	e affected by th additional guid	ne updates ance.	submitt	ed on this form or the
Dam Safety		Districts		Edwards /	Aquifer	Industrial Hazardous Waste		Waste		Junicipal Solid Waste	
New Source Review -	Irce Review – Air 🔲 OSSF		Petroleum Storage Tank		PWS				Sludge		

Stormwater	🔲 Title V – Air	Tires	Used Oil	Utilities
Voluntary Cleanup	Waste Water	Wastewater Agriculture	Water Rights	Other:

SECTION IV: Preparer Information

40. Name:	Lauren Croi	ne, P.E.		41. Title:	Senior Project Manager
42. Telephon	e Number	43. Ext./Code	44. Fax Number	45. E-Mail A	Address
(512)439	-4700		() -	lcrone@l	lja.com

SECTION V: Authorized Signature

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

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

Company:	Holden Hills, L.P., a Texas limited partnership	Job Title: By: Holden Hills GP, L.L.C., a Texas limited liability company, General Partner		
Name(In Print) :	By: Erin D. Pickens, Senior Vice President		Phone:	(512)478-5788
Signature:	Erin D Pickens		Date:	02/01/2024