



ITEM FOR ENVIRONMENTAL COMMISSION AGENDA

COMMISSION MEETING DATE: November 6, 2019

NAME & NUMBER OF PROJECT: 3801 Westlake
SP-2019-0243DS

NAME OF APPLICANT OR ORGANIZATION: Eric Moreland, Laguna Taco LLC

LOCATION: 3801 Westlake Drive,
Austin, Texas, 78746

COUNCIL DISTRICT: District 10

ENVIRONMENTAL REVIEW STAFF: Pamela Abee-Taulli,
Environmental Review Specialist Senior, Development Services
Department, 512-974-1879, pamela.abee-taulli@austintexas.gov

HYDROLOGIST REVIEW STAFF: Lindsey Sydow,
Environmental Scientist, Watershed Protection Department, 512-
974-2746, lindsey.sydow@austintexas.gov

WATERSHED: Lake Austin Watershed, Water Supply Rural, Drinking Water
Protection Zone

REQUEST: Variance request is as follows:
Request to vary from LDC 25-8-281(C)(2)(b) to allow construction
of a boat dock and shoreline access within a 150-foot Critical
Environmental Feature (CEF) buffer for a Rimrock CEF.

**STAFF
RECOMMENDATION:**

Staff recommends this variance, having determined the findings of fact to have been met, with the following conditions:

1. The portion of the existing access path that will be bypassed, between the point where the new path will branch off from the existing path and the endpoint of the current path where it connects with the current bridge, shall be removed and revegetated.
2. In the plan set, a non-erodible surface (e.g., paving, shallow stairs, etc.) for the proposed path shall be specified.



Development Services Department
Staff Recommendations Concerning Required Findings

Project Name: **3801 Westlake Drive – SP-2019-0243DS**
Ordinance Standard: **Watershed Protection Ordinance**
Variance Request: **To vary from LDC 25-8-281(C)(2)(b) to allow construction of a boat dock and shoreline access within a 150-foot Critical Environmental Feature (CEF) buffer for a Rimrock CEF**

Include an explanation with each applicable finding of fact.

A. Land Use Commission variance determinations from Chapter 25-8-41 of the City Code:

1. The requirement will deprive the applicant of a privilege available to owners of similarly situated property with approximately contemporaneous development subject to similar code requirements.

Yes / ~~No~~

Yes. Similarly situated properties, with a rimrock CEF buffer that extends to the shoreline frontage along Lake Austin, frequently contain boat docks and shoreline access. The adjacent properties have boat docks and shoreline access. The width of the proposed boat dock is 21 feet, which does not exceed the allowable 20% of the shoreline frontage.

2. The variance:
 - a) Is not necessitated by the scale, layout, construction method, or other design decision made by the applicant, unless the design decision provides greater overall environmental protection than is achievable without the variance;

Yes / ~~No~~

Yes. The variance is not necessitated by the design. No alternative locations outside of the CEF buffer are available on site for shoreline access because the entire shoreline for this property is within the canyon rimrock CEF buffer. Additionally, the applicant is proposing a more favorable location for shoreline access than the current boat dock, for which the access crosses the canyon rimrock. All areas of demolition and construction within the

buffer will be revegetated according to City specifications. The design of this project results in a plan that provides greater overall environmental protection than is achievable without the variance.

- b) Is the minimum deviation from the code requirement necessary to allow a reasonable use of the property;

Yes / ~~No~~

Yes. The variance is a minimum deviation from the code requirement and is allowing for reasonable use of the property. The code requires a 150-foot critical environmental feature buffer. This buffer is not being reduced. The scope of the variance is limited to allowing construction activities to occur within a critical environmental feature buffer for only a boat dock and a pathway for shoreline access.

- c) Does not create a significant probability of harmful environmental consequences.

Yes / ~~No~~

Yes. The variance does not create significant harmful environmental consequences. The construction of the boat dock and access will not disturb the rimrock critical environmental feature.

3. Development with the variance will result in water quality that is at least equal to the water quality achievable without the variance.

Yes / ~~No~~

Yes, the construction activities will minimize disturbance to terrestrial vegetation, and all disturbed areas will be revegetated according to City specifications. Furthermore, the existing dock that is rotting will be removed, thereby providing water quality that is at least equal to the water quality achievable without the variance.

- B. The Land Use Commission may grant a variance from a requirement of Section 25-8-422 (*Water Supply Suburban Water Quality Transition Zone*), Section 25-8-452 (*Water Supply Rural Water Quality Transition Zone*), Section 25-8-482 (*Barton Springs Zone Water Quality Transition Zone*), Section 25-8-368 (*Restrictions on Development Impacting Lake Austin, Lady Bird Lake, and Lake Walter E. Long*), or Article 7, Division 1 (*Critical Water Quality Zone Restrictions*), after determining that::

1. The criteria for granting a variance in Subsection (A) are met;

Yes / No N/A

2. The requirement for which a variance is requested prevents a reasonable, economic use of the entire property;

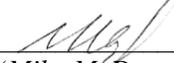
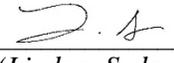
Yes / No **N/A**

3. The variance is the minimum deviation from the code requirement necessary to allow a reasonable, economic use of the entire property.

Yes / No **N/A**

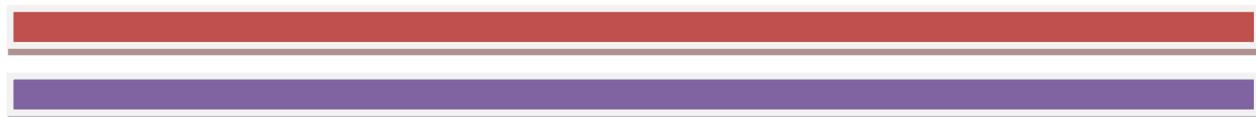
Staff Determination: Staff determines that the findings of fact have been met. Staff recommends the following condition:

1. The portion of the existing access path that will be bypassed, between the point where the new path will branch off from the existing path and the endpoint of the current path where it connects with the current bridge, shall be removed and revegetated.
2. In the plan set, a non-erodible surface (e.g., paving, shallow stairs, etc.) for the proposed path shall be specified.

Environmental Reviewer (DSD)	 _____ (Pamela Abee-Taulli)	Date ____10/8/19____
Environmental Review Manager (DSD)	 _____ (Mike McDougal)	Date ____10/8/19____
Wetland Biologist / Hydrogeologist Reviewer (WPD)	 _____ (Lindsey Sydow)	Date ____9/6/2019____
Environmental Officer (WPD)	 _____ (Chris Herrington)	Date ____10/9/2019____



ENVIRONMENTAL COMMISSION VARIANCE APPLICATION FORM



PROJECT DESCRIPTION

Applicant Contact Information

Name of Applicant	<i>Eric Moreland for Laguna Taco LLC</i>
Street Address	<i>28 Sundown Parkway</i>
City State ZIP Code	<i>Austin, TX 78746</i>
Work Phone	<i>512-480-0848</i>
E-Mail Address	<i>eric@moreland.com</i>

Variance Case Information

Case Name	<i>3801 Westlake Drive</i>
Case Number	<i>SP-2019-0243DS</i>
Address or Location	<i>3801 Westlake Drive</i>
Environmental Reviewer Name	<i>Pamela Abee-Taulli</i>
Environmental Resource Management Reviewer Name	
Applicable Ordinance	<i>LDC 25-8-281(C)(2)(b)</i>
Watershed Name	<i>Lake Austin</i>
Watershed Classification	<input type="checkbox"/> Urban <input type="checkbox"/> Suburban <input type="checkbox"/> Water Supply Suburban <input checked="" type="checkbox"/> Water Supply Rural <input type="checkbox"/> Barton Springs Zone

Edwards Aquifer Recharge Zone	<input type="checkbox"/> Barton Springs Segment <input type="checkbox"/> Northern Edwards Segment X Not in Edwards Aquifer Zones
Edwards Aquifer Contributing Zone	<input type="checkbox"/> Yes X No
Distance to Nearest Classified Waterway	<i>The boat dock is in Lake Austin.</i>
Water and Waste Water service to be provided by	NA
Request	<p>The variance request is as follows (Cite code references:</p> <p><i>To allow construction in a rimrock CEF buffer.</i></p>

Impervious cover	Existing	Proposed
square footage:	_____	_____
acreage:	_____	_____
percentage:	_____	_____
Provide general description of the property (slope range, elevation range, summary of vegetation / trees, summary of the geology, CWQZ, WQTZ, CEFs, floodplain, heritage trees, any other notable or outstanding characteristics of the property)	<p><i>3801 Westlake Drive is a lakefront, 0.8 acre, home site in the Lake Shore Addition subdivision which was platted in 1915. It contains a home constructed in the 60s, a limestone walkway which crosses a rimrock and ends at a dock constructed in the same era as the house. The site remains relatively untouched since its development more than 50 years ago. The proposed project entails construction of a new dock and dock access moved away from the location of the CEF along with the removal of the existing dock and restoration of the shoreline area currently housing the existing dock stairs and gangway. Attachment 1 contains an aerial photo of the site. The site is heavily vegetated with a slope of about 58% in the Critical Water Quality Zone (CWQZ) bordering the lake. The vegetation in the CWQZ is dominated by native vegetation classified as saplings and shrubs. No trees will be removed with this project, and the site will be fully restored per 609S specifications. Attachment 2 contains the Proposed Conditions Site Plan and Erosion Controls Sheet for the project. Attachment 3 contains the Basis of Determination for the Findings of Fact, and Attachment 4 contains the Environmental Resource Inventory.</i></p>	

Clearly indicate in what way the proposed project does not comply with current Code (include maps and exhibits)	<i>This project proposes to demolish an existing dock and its access and construct a new dock and access route farther away from a rimrock. The demolition of the dock and access as well as the construction of the new dock and access are within 150 ft. of the rimrock. Please see Attachment 1 for the Proposed Conditions Site Plan and Erosion Controls Sheet.</i>
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FINDINGS OF FACT

As required in LDC Section 25-8-41, in order to grant a variance the Land Use Commission must make the following findings of fact:

Include an explanation with each applicable finding of fact.

Project:

Ordinance:

- A. Land Use Commission variance determinations from Chapter 25-8-41 of the City Code:
1. The requirement will deprive the applicant of a privilege available to owners of similarly situated property with approximately contemporaneous development subject to similar code requirements.
 No *Please see Attachment 3, Basis of Determination.*
 2. The variance:
 - a) Is not necessitated by the scale, layout, construction method, or other design decision made by the applicant, unless the design decision provides greater overall environmental protection than is achievable without the variance;
 No *Please see Attachment 3, Basis of Determination.*
 - b) Is the minimum deviation from the code requirement necessary to allow a reasonable use of the property;
 No *Please see Attachment 3, Basis of Determination.*
 - c) Does not create a significant probability of harmful environmental consequences.
 No *Please see Attachment 3, Basis of Determination.*

3. Development with the variance will result in water quality that is at least equal to the water quality achievable without the variance.

No *Please see Attachment 3, Basis of Determination.*

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-422 (Water Quality Transition Zone), Section 25-8-452 (Water Quality Transition Zone), Article 7, Division 1 (Critical Water Quality Zone Restrictions), or Section 25-8-368 (Restrictions on Development Impacting Lake Austin, Lady Bird Lake, and Lake Walter E. Long):

Not Applicable

1. The criteria for granting a variance in Subsection (A) are met;

Yes / No [provide summary of justification for determination]

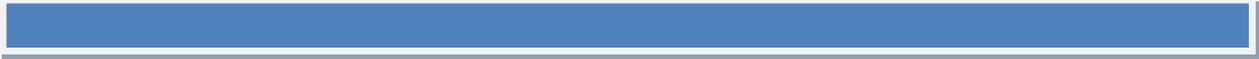
2. The requirement for which a variance is requested prevents a reasonable, economic use of the entire property;

Yes / No [provide summary of justification for determination]

3. The variance is the minimum deviation from the code requirement necessary to allow a reasonable, economic use of the entire property.

Yes / No [provide summary of justification for determination]

**Variance approval requires all above affirmative findings.



Exhibits for Commission Variance

- Aerial photos of the site
- Site photos
- Aerial photos of the vicinity
- Context Map—A map illustrating the subject property in relation to developments in the vicinity to include nearby major streets and waterways
- Topographic Map - A topographic map is recommended if a significant grade change on the subject site exists or if there is a significant difference in grade in relation to adjacent properties.
- For cut/fill variances, a plan sheet showing areas and depth of cut/fill with topographic elevations.
- Site plan showing existing conditions if development exists currently on the property
- Proposed Site Plan- full size electronic or at least legible 11x17 showing proposed development, include tree survey if required as part of site or subdivision plan
- Environmental Map – A map that shows pertinent features including Floodplain, CWQZ, WQTZ, CEFs, Setbacks, Recharge Zone, etc.
- An Environmental Resource Inventory pursuant to ECM 1.3.0 (*if required by 25-8-121*)
- Applicant’s variance request letter

ATTACHMENT 1
AERIAL SITE PHOTO



RIMROCK CEF

EXISTING DOCK WITH ACCESS
CROSSING THE RIMROCK

EXISTING DOCK
ACCESS ROUTE

PROPOSED DOCK
AND ACCESS

PROPERTY BOUNDARY

8309
WESTLAKE DR

8301
WESTLAKE DR

8715
WESTLAKE DR

All Aerials

1997 2018 2018

0 15 30ft

COA

August 6, 2019

ATTACHMENT 2
PROPOSED CONDITIONS SITE PLAN SHEET
AND EROSION CONTROLS

3801 WESTLAKE DRIVE

NOTES:

- ALL WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE PLAN. ALL MATERIALS WILL BE TRANSPORTED TO THE SITE FROM WATER. ALL CONSTRUCTION ACTIVITY, INCLUDING STAGING AND SPOIL STORAGE, WILL BE COMPLETED BY WATER.
- SHORELINE IMPROVEMENTS, INCLUDING GANGWAY ACCESS, ARE AUTHORIZED WITH THIS SITE PLAN.
- CONTAINERS OF HAZARDOUS MATERIALS, FUEL, OIL, HERBICIDES, INSECTICIDES, FERTILIZERS, OR OTHER POLLUTANTS WILL NOT BE STORED ON DOCKS EXTENDING INTO OR ABOVE LAKE AUSTIN.
- FOR LA ZONING, PERMANENT IMPROVEMENTS ARE PROHIBITED WITHIN THE SHORELINE SETBACK AREA, EXCEPT FOR RETAINING WALLS, PIERS, WHARVES, BOATHOUSES, MARINAS, OR A DRIVE TO ACCESS THE STRUCTURES (LDC 25-2-551 (B)(2)).
- NO WATER OR WASTEWATER UTILITIES ARE PROPOSED WITH THIS DEVELOPMENT.
- DOCK SHALL BE AT LEAST 66% OPEN.
- PILINGS SHALL BE 6-5/8" DIAMETER STEEL PIPE.
- THE PROJECT SITE IS WITHIN THE CITY OF AUSTIN LIMITED PURPOSE BOUNDARIES. DREDGE MATERIAL SHALL BE DISPOSED DRY IN A LEGALLY PERMITTED LANDFILL SITE. PRIOR TO OFFSITE DISPOSAL, THE PERMITTEE SHALL PROVIDE THE ENVIRONMENTAL INSPECTOR WITH THE ADDRESS AND CONTACT NUMBER FOR THE DISPOSAL SITE. DISPOSAL OF DREDGE SPOIL IN THE LAKE IS SPECIFICALLY PROHIBITED.

ATTENTION INSPECTOR NOTES:

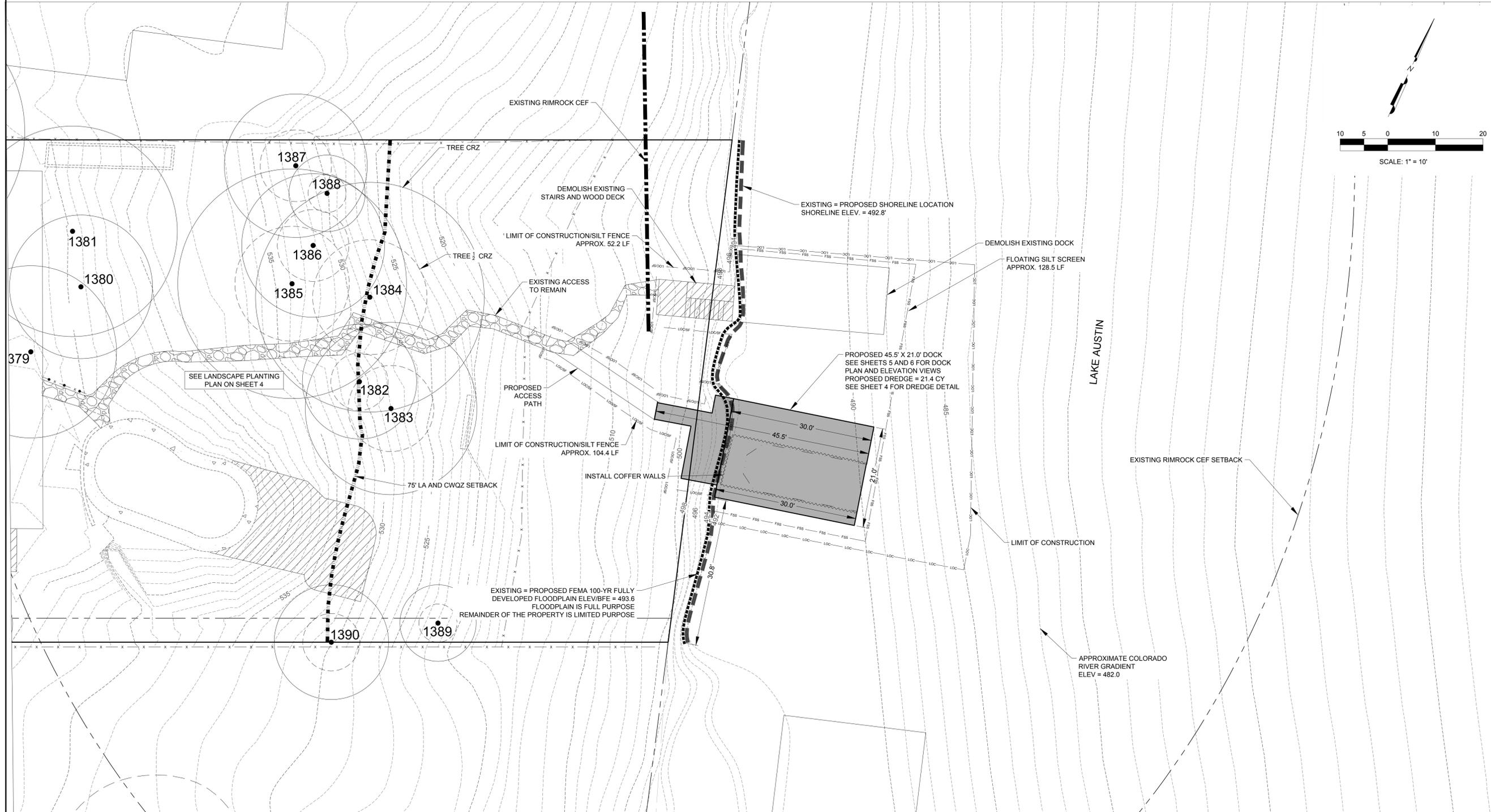
- COMPLIANCE WITH BUILDING CODE REQUIRED AND IS TO BE REVIEWED FOR COMPLIANCE DURING BUILDING CODE REVIEW.
- FOR THE BUILDING PERMIT, A SIGNED AND SEALED LETTER SHALL BE SUBMITTED TO THE CITY OF AUSTIN, PER THE LAND DEVELOPMENT CODE, 25-12-3 1612.4, CERTIFYING THAT THE STRUCTURE IS IN ACCORDANCE WITH ASCE 24, FLOOD RESISTANT DESIGN AND CONSTRUCTION.
- ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.

NOTE:
THE PROPOSED BOAT DOCK MUST COMPLY WITH ALL REQUIREMENTS OF LDC 25-2-1174 ("STRUCTURAL REQUIREMENTS"), AND MUST COMPLY WITH CHAPTER 25-12, ARTICLE 1 (UNIFORM BUILDING CODE) AND THE BUILDING CRITERIA MANUAL.

LEGEND

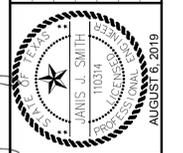
- EXISTING SHORELINE
- CWQZ AND LA SETBACK
- 100-YR FLOODPLAIN
- FLOATING SILT SCREEN
- LIMIT OF CONSTRUCTION
- LIMIT OF CONSTRUCTION/SILT FENCE
- RIMROCK CEF
- TREE CRITICAL ROOT ZONE AND 1/2 CRZ

EXISTING SHORELINE LENGTH = 108.6'
ALLOWABLE DOCK WIDTH = 20% OF 108.6' = 21.7'
PROPOSED DOCK WIDTH = 21.0' = 19.3%
PROPOSED DOCK DEPTH = 48.5'
DOCK FOOTPRINT = 783.7 SF



PROPOSED SITE PLAN

Janis J. Smith



Janis Smith Consulting, LLC

1505 Westover Road • Austin, Texas 78703 • 512-914-3729
Texas Board of Professional Engineers Registration Number F-16978

**3801 WESTLAKE DRIVE
PROPOSED CONDITIONS SITE PLAN
AND EROSION CONTROLS SHEET**

DESIGNED: JJS
APPROVED:
SCALE: AS SHOWN
3801 WESTLAKE DR
DATE: MAY 31, 2019
SHEET 3 of 8

ATTACHMENT 3
BASIS OF DETERMINATION FOR THE FINDINGS OF FACT

- A. 1. The requirement will deprive the applicant of a privilege available to owners of similarly situated property with approximately contemporaneous development subject to similar code requirements.

YES. Attached is a summary of the variance applications pertaining to LDC 25-8-281(C)(2)(b) for the past five years. The Environmental Commission has recommended every application except one which included a tram.

2. The variance:

a. Is not necessitated by the scale, layout, construction method, or other design decision made by the applicant, unless the design decision provides greater overall environmental protection than is achievable without the variance;

YES. The entire shoreline is within the CEF setback. The existing dock is rotting; it's unsafe and unusable; and the stairs and gangway to the dock cross the rimrock. The replacement dock will be built as far away as possible from the rimrock while making maximum use of the existing access route from the house in order to minimize the disturbance on the shoreline. Runoff from the limit of construction will not flow toward the rimrock.

b. Is the minimum deviation from the code requirement necessary to allow reasonable use of the property;

YES. A dock cannot be constructed on the lot without obtaining this variance.

c. Does not create a significant probability of harmful environmental consequences.

YES. The project will eliminate disturbance to the CEF by removing the access that crosses the CEF. Overland flow from the Limit of Construction will not reach the rimrock.

3. Development with the variance will result in water quality that is at least equal to the water quality achievable without the variance.

YES. The existing dock and access are crumbling with tar paper sloughing off of the roof of the dock into the lake. The structures are unsound, and it's not possible to construct a dock without the variance. All disturbed areas will be revegetated per the 609s specification.

- B. 1. The criteria for granting a variance in Subsection (A) are met:

YES. Please see answers to A (1), (2), and (3).

2. The requirement for which a variance is requested prevents a reasonable, economic use of the entirety of the property;

YES. The existing dock is not functional or safe, and building any dock will require a variance on this property. Denying the owner the ability to build a dock on the lakefront lot would prevent “a reasonable economic use of the entirety of the property”.

3. The variance is the minimum deviation from the code requirement necessary to allow a reasonable, economic use of the entire property;

YES. Denying the owner the ability to build a dock on the lakefront lot doesn’t “allow a reasonable, economic use of the entire property”; it’s not possible to construct a dock on this property without securing the variance; so this project is the minimum deviation from the code.

**SUMMARY OF VARIANCE APPLICATIONS FOR LDC 25-8-281(C)(2)(b)
2014 to PRESENT**

Name	Location	Watershed	Request	EC Action
3919 Westlake Drive, SP-2018-0320DS (D-10)	3919 Westlake Drive, Austin, TX 78746	Lake Austin	To allow the construction of a boat dock within a 150-foot Critical Environmental Feature buffer (Canyon Rimrock/Seep Complex). 25-281(C)(2)(b)	Recommended
Schwausch Boat Dock (SP-2018-0128D)	3335 Far View Drive	Lake Austin	Variance request is as follows: 1. Critical Environmental Features [LDC 25- 8-281(C)(2)(b)] To allow construction of a tram and boat dock within a critical environmental feature buffer	Not recommended
Settle Boat Dock SP-2017-0032D Variance	3825 Westlake Drive, Austin, TX	Lake Austin Water Supply Rural Drinking Water Protection Zone	To allow construction of a boat dock within several 150 foot Critical Environmental Feature Buffers (2) Canyon Rimrocks and (2) Springs. 25-8-281(C)(2)(b)	Recommended with conditions
Bulkhead for 2200 Lauranne Lane SP-2016- 0420D	2200 Lauranne Lane Austin, TX 78733	Lake Austin Water Supply Rural Drinking Water Protection Zone	Variance from 25-8-281(C)(2)(b) Critical Environmental Features, to allow construction of a bulkhead and shoreline stabilization within a Critical Environmental Feature (CEF) buffer for a canyon rimrock.	Recommended with conditions
Kristin Boat Dock SP-2016-0185Ds (D-10)	3811 Westlake Drive	Lake Austin, Water Supply Rural, Drinking Water Protection Zone	To allow the construction of a boat dock within a 150 foot Critical Environmental Feature buffer (Canyon Rimrock). LDC 25-8-281(C)(2)(b)	Recommended with conditions
Caven Boat Dock SP-2015-0202DS	2806 Scenic Drive	Taylor Slough North (Water Supply Suburban), Drinking Water Protection Zone	To allow the construction of a boat dock within a 150 foot Critical Environmental Feature buffer (Canyon Rimrock/Bluff). 25-8-281(C)(2) (B).	approved
Gallagher Boat Dock SP-2015-0232DS (D-10)	3909 Westlake Drive	Lake Austin (Water Supply Rural), Drinking Water Protection Zone	1) To allow the construction of a boat dock, access maintenance and the installation of a new hand rail within several 150 foot Critical Environmental Feature buffers (Canyon Rimrock, Springs/Seep). 25-8-281 (C)(2)(B)	approved
CASWELL ESTATES C8-2014-0134.0A	3336 Mount Bonnell Dr	Huck's Slough Watershed and Lake Austin Watershed	1 – To allow a CEF within a residential lot [LDC 25-8-281(B)] and 2 – To reduce a CEF setback to 50 feet [LDC 25-8-281(C)(1)(a)]	approved
Far View SP-2014-0135D	3337 Far View Drive	Drinking Water Protection Zone	To modify the standard 150-foot width Critical Environmental Feature buffer in order to allow construction of a tram within a Critical Environmental Feature (rimrock and seep) buffer corridor 10 feet wide and 420 feet long that spans 2 canyon rimrocks and a seep, 25-8-281(C)(2)(b).	approved with conditions
70 Pascal Lane SP-2014-0144D	70 Pascal Lane	Lake Austin (Water Supply Suburban), Drinking Water Protection Zone	To allow the construction of a tram within a 150 foot Critical Environmental Feature buffer (Canyon Rimrock/Bluff) to provide a single point of shoreline access to a proposed boat dock that is outside of the buffer. 25-8-281 (C) (2) (B).	approved
MAYES BOAT DOCK SP-2014-0182D	3715 Westlake Dr	Lake Austin Watershed / Water Supply Rural Classification / Drinking Water Protection Zone	Variance requests are as follows: 1. To allow construction of a boat dock, shoreline access, and shoreline stabilization within a CEF buffer for a canyon rimrock [LDC 25-8- 281(C)(2)(b)]; and 2. To allow fill up to 8 feet [LDC 25-8-342(A)]	approved
Iles Boat Dock SP-2014-0212DS	2415 Big Horn Dr., Bldg. BD	Lake Austin (Water Supply Suburban), Drinking Water Protection Zone	Variance to allow construction of a boat dock within a bluff Critical Environmental Feature buffer, 25-8-281(C)(2)(b).	approved

ATTACHMENT 4
ENVIRONMENTAL RESOURCE INVENTORY



**City of Austin – Environmental Resource Inventory (ERI)
3801 Westlake Dr
Travis County, Texas**

July 13, 2018

Prepared for:



**Permit Partners
105 W. Riverside Drive, Suite 225
Austin, Texas 78704**

By:

**DESCO Environmental Consultants, LP
26902 Nichols Sawmill Road
Magnolia, Texas 77355**



List of Attachments for the Environmental Resource Inventory Form

Figure 1: Site Specific Geologic Map with 2' Topography

Figure 2: Historical Aerial Imagery

Figure 3: Site Soil Map

Figure 4: Critical Environmental Features and Well Locations

Figure 5: CWQZ and Fully Developed Floodplain Map

Figure 6: 3801 Westlake Dr-ERI Site Photos

Environmental Resource Inventory

For the City of Austin
Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A).

- 1. SITE/PROJECT NAME: 3801 Westlake Drive
- 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 123443
- 3. ADDRESS/LOCATION OF PROJECT: 3801 Westlake Drive
- 4. WATERSHED: Lake Austin
- 5. THIS SITE IS WITHIN THE *(Check all that apply)*
 - Edwards Aquifer Recharge Zone* *(See note below)* YES No
 - Edwards Aquifer Contributing Zone* YES No
 - Edwards Aquifer 1500 ft Verification Zone* YES No
 - Barton Spring Zone* YES No

**(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)*

Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

- 6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?..... YES** NO
If yes, then check all that apply:
 - (1) The floodplain modifications proposed are necessary to protect the public health and safety;
 - (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or
 - (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262.**
 - (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

**** If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply.**

- 7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? YES*** NO

*****If yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance).**

- 8. There is a total of 1 (#s) Critical Environmental Feature(s)(CEFs) on or within 150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the **CEF WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site *(Please provide the number of CEFs)*:

_____ (#'s) Spring(s)/Seep(s) _____ (#'s) Point Recharge Feature(s) _____ (#'s) Bluff(s)
 1 _____ (#'s) Canyon Rimrock(s) _____ (#'s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

- Site Specific Geologic Map with 2-ft Topography**
- Historic Aerial Photo of the Site**
- Site Soil Map**
- Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography**

Only if present on site (Maps can be combined):

- Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone**
(Only if site is over or within 1500 feet the recharge zone)
- Edwards Aquifer Contributing Zone**
- Water Quality Transition Zone (WQTZ)**
- Critical Water Quality Zone (CWQZ)**
- City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage**

10. **HYDROGEOLOGIC REPORT** – Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed):

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)
Tarrant soils and Urban land, 5 to 18 percent slopes	C	1
Tarrant soils and Urban land, 18 to 40 percent slopes	C	1

*Soil Hydrologic Groups Definitions (Abbreviated)
A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
B. Soils having a <u>moderate infiltration</u> rate when thoroughly wetted.
C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.
D. Soils having a <u>very slow infiltration</u> rate when thoroughly wetted.
**Subgroup Classification – See <u>Classification of Soil Series</u> Table in County Soil Survey.

Description of Site Topography and Drainage *(Attach additional sheets if needed):*

The property slopes from the west south west to the east northeast toward Lake Austin/Colorado River. The property slopes steeply adjacent to the river. A canyon rimrock (CEF) averaging approximately 8 feet tall transects the property in a north northwest/south south east orientation. The canyon rimrock abuts Lake Austin for a significant portion of the property shoreline. Westlake Drive abuts the property to the west southwest. An outbuilding is also present to the west of the main residence. The entire property is forested. No fringe wetlands are present along the property shoreline.

List surface geologic units below:

Geologic Units Exposed at Surface		
Group	Formation	Member
Trinity Group	Upper Glen Rose Limestone	Cretaceous

Brief description of site geology *(Attach additional sheets if needed):*

Limestone, dolomite, and marl in alternating resistant and recessive beds forming stair step topography; limestone, alphanitic to fine grained, hard to soft and marly, light grey to yellowish grey; dolomite, fine grained, porous, yellowish brown; marine megafossils include steinkems, rudistids oysters, and echinoids; upper part relatively thinner bedded, more dolomitic and less fossiliferous than lower part, thickness about 220 feet.

Wells – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are $\frac{0}{0}$ (#) wells present on the project site and the locations are shown and labeled
 $\frac{0}{0}$ (#s) The wells are not in use and have been properly abandoned.
 $\frac{0}{0}$ (#s) The wells are not in use and will be properly abandoned.
 $\frac{0}{0}$ (#s) The wells are in use and comply with 16 TAC Chapter 76.
 There are $\frac{0}{0}$ (#s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

Brief description of site plant communities (*Attach additional sheets if needed*):

The property has a forested vegetation community, with natural/native vegetation on much of the property. Escarpment live oak (*Quercus fusiformis*), southern live oak (*Quercus virginiana*), and sugar-berry (*Celtis laevigata*) are the dominant canopy species on the property. Both canopy species along with Texas persimmon (*Diospyros texana*), Chinese privet (*Ligustrum sinense*), Carolina cherry laurel (*Prunus caroliniana*), and Chinese tallow (*Triadica sebifera*) are included in the sapling/shrub layer. The herbaceous layer on the property includes landscaping ivies, Chinese privet, turk's cap (*Malvaviscus arboreus*), poison ivy (*Toxicodendron radicans*), and indian wood-oats (*Chasmanthium latifolium*).

There is woodland community on site YES NO (*Check one*).

If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name
Southern live oak	<i>Quercus virginicus</i>
Escarpment live oak	<i>Quercus fusiformis</i>
Sugar-berry	<i>Celtis laevigata</i>

There is grassland/prairie/savanna on site..... YES NO (*Check one*).

If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name

There is hydrophytic vegetation on site YES NO (*Check one*).

If yes, list the dominant species in table below (*next page*):

Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.

YES NO (Check one).

12. WASTEWATER REPORT – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- On-site system(s)
- City of Austin Centralized sewage collection system
- Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with City Code Chapter 15-12 and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.

YES NO (Check one).

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.

YES NO Not Applicable (Check one).

Wastewater lines are proposed within the Critical Water Quality Zone?

YES NO (Check one). If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?

YES NO (Check one).

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: June 22, 2018
Date(s)

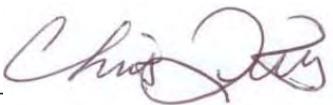
My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Christopher Little

Print Name

281 252 9799

Telephone



Signature

clittle@descoenv.com

Email Address

DESCO Environmental Consultants, LP

Name of Company

July 13, 2018

Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

P.G.
Seal



Figure 1: Site Specific Geologic Map with 2' Topography
 3801 Westlake Drive
 Travis County, Texas

Legend

- Parcel of Interest (CoA)
- Geologic Atlas of Texas - 250K (TNRIS)
- 2' Contours (CoA)

N
 1:1,200



Map Base: 2016 CIR Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018



Figure 2: Historical Aerial Imagery
3801 Westlake Drive

Travis County, Texas

Map Base: 1996 Aerial Imagery from TNRIS
Map Datum: NAD 1983 UTM Zone 14N, meters
Map Date: June 27, 2018

Legend

 Parcel of Interest (CoA)



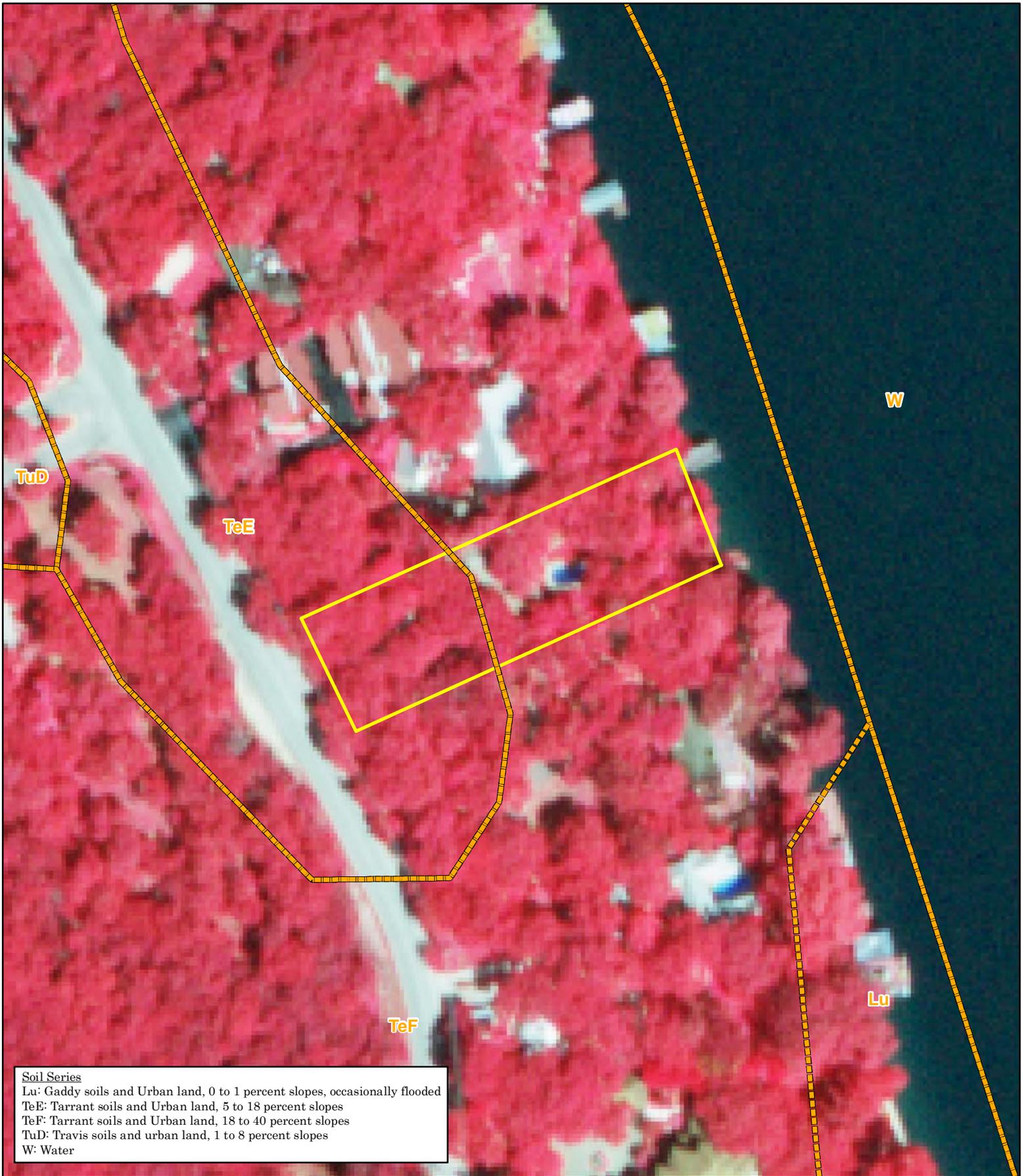


Figure 3: Site Soil Map
 3801 Westlake Drive

Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018

Legend

-  Parcel of Interest (CoA)
-  Soils (USDA/NRCS)



1:1,200





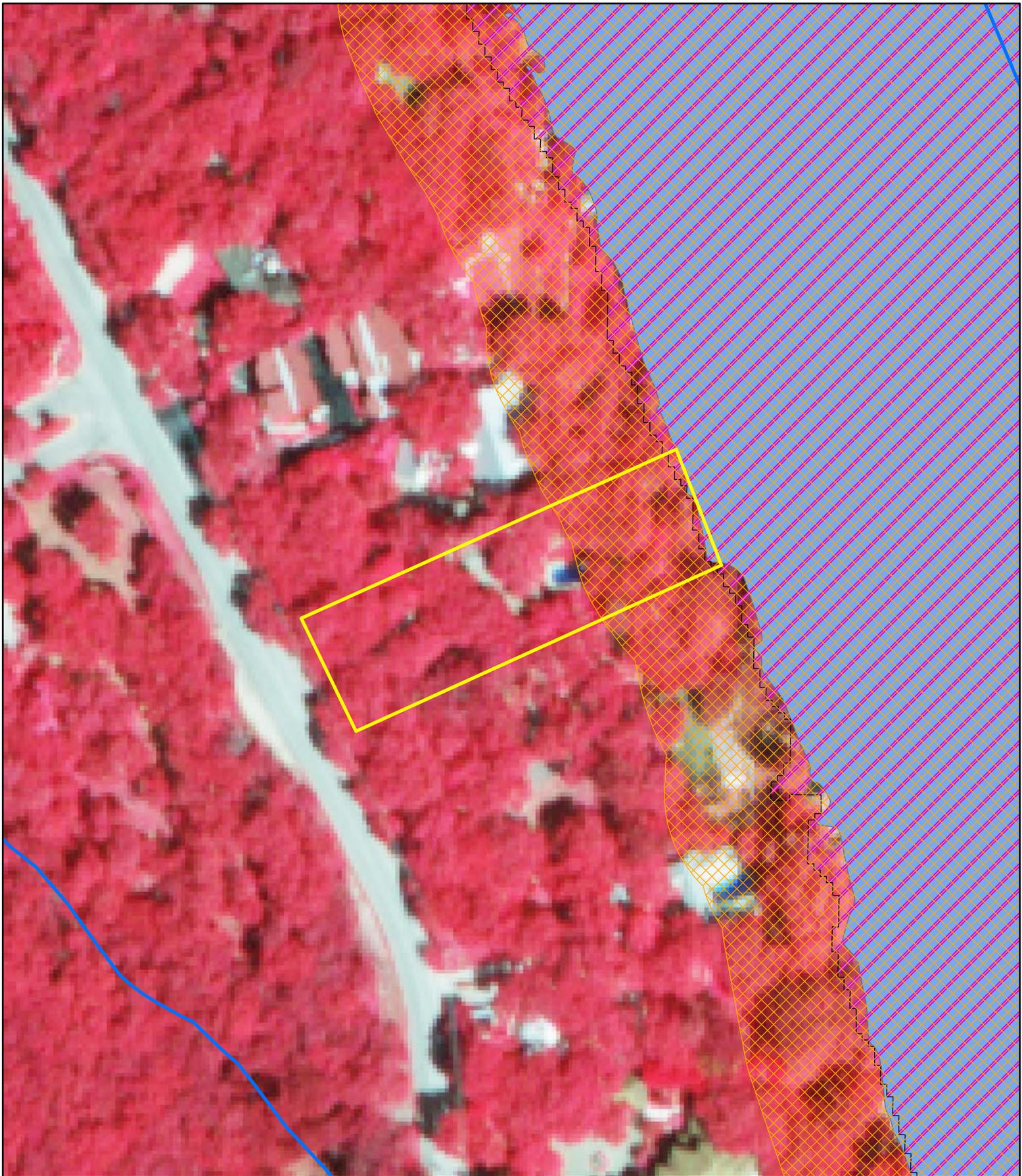
- Legend**
- 2' Contours (CoA)
 - Rock Outcrop (CoA)
 - Canyon Rimrock (DESCO)
 - Parcel of Interest (CoA)
 - 150' Buffer

Figure 4: Critical Environmental Features and Well Locations
 3801 Westlake Drive
 Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018

N
 1:1,200





Legend

-  Waterways (CoA)
-  CWQZ (CoA)
-  Austin Fully Developed Floodplain (CoA)
-  Lakes (CoA)
-  Parcel of Interest (CoA)

Figure 5: CWQZ and Fully Developed Floodplain Map
 3801 Westlake Drive
 Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018



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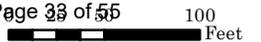


Figure 6: 3801 Westlake Dr - ERI Site Photos



Photo 1: Looking down driveway from Westlake Drive. Photo is facing the east northeast.



Photo 2: Front of property from Westlake Drive. Photo is facing the east northeast.



Photo 3: Front of residence taken from driveway. Photo is facing the northeast.



Photo 4: Outbuilding located to the west of the main residence. Photo is facing the north.



Photo 5: Back of residence and drained swimming pool. Photo is facing the northwest.



Photo 6: Path from residence down to the dock. Photo is facing the east northeast.



Photo 7: Dock over Lake Austin. Photo is facing the east northeast.



Photo 8: Canyon rimrock (CEF) adjacent to Lake Austin along the eastern boundary of the property. Photo is facing the north northwest.



City of Austin – Environmental Resource Inventory (ERI)
3801 Westlake Dr
Travis County, Texas

July 13, 2018

Prepared for:



Permit Partners
105 W. Riverside Drive, Suite 225
Austin, Texas 78704

By:

DESCO Environmental Consultants, LP
26902 Nichols Sawmill Road
Magnolia, Texas 77355



List of Attachments for the Environmental Resource Inventory Form

Figure 1: Site Specific Geologic Map with 2' Topography

Figure 2: Historical Aerial Imagery

Figure 3: Site Soil Map

Figure 4: Critical Environmental Features and Well Locations

Figure 5: CWQZ and Fully Developed Floodplain Map

Figure 6: 3801 Westlake Dr-ERI Site Photos

Environmental Resource Inventory

For the City of Austin
Related to LDC 25-8-121, City Code 30-5-121, ECM 1.3.0 & 1.10.0

The ERI is required for projects that meet one or more of the criteria listed in LDC 25-8-121(A), City Code 30-5-121(A).

- 1. SITE/PROJECT NAME: 3801 Westlake Drive
- 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 123443
- 3. ADDRESS/LOCATION OF PROJECT: 3801 Westlake Drive
- 4. WATERSHED: Lake Austin
- 5. THIS SITE IS WITHIN THE (Check all that apply)
 - Edwards Aquifer Recharge Zone* (See note below) YES No
 - Edwards Aquifer Contributing Zone* YES No
 - Edwards Aquifer 1500 ft Verification Zone* YES No
 - Barton Spring Zone* YES No

*(as defined by the City of Austin – LDC 25-8-2 or City Code 30-5-2)

Note: If the property is over the Edwards Aquifer Recharge zone, the Hydrogeologic Report and karst surveys must be completed and signed by a Professional Geoscientist Licensed in the State of Texas.

- 6. DOES THIS PROJECT PROPOSE FLOODPLAIN MODIFICATION?..... YES** NO
If yes, then check all that apply:
 - (1) The floodplain modifications proposed are necessary to protect the public health and safety;
 - (2) The floodplain modifications proposed would provide a significant, demonstrable environmental benefit, as determined by a **functional assessment** of floodplain health as prescribed by the Environmental Criteria Manual (ECM), or
 - (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under LDC 25-8-261 or 25-8-262, City Code 30-5-261 or 30-5-262.**
 - (4) The floodplain modifications proposed are outside of the Critical Water Quality Zone in an area determined to be in poor or fair condition by a **functional assessment** of floodplain health.

**** If yes, then a functional assessment must be completed and attached to the ERI (see ECM 1.7 and Appendix X for forms and guidance) unless conditions 1 or 3 above apply.**

- 7. IF THE SITE IS WITHIN AN URBAN OR SUBURBAN WATERSHED, DOES THIS PROJECT PROPOSE A UTILITY LINE PARALLEL TO AND WITHIN THE CRITICAL WATER QUALITY ZONE? YES*** NO

*****If yes, then riparian restoration is required by LDC 25-8-261(E) or City Code 30-5-261(E) and a functional assessment must be completed and attached to the ERI (see ECM1.5 and Appendix X for forms and guidance).**

- 8. There is a total of 1 (#s) Critical Environmental Feature(s)(CEFs) on or within 150 feet of the project site. If CEF(s) are present, attach a detailed **DESCRIPTION** of the CEF(s), color **PHOTOGRAPHS**, the **CEF WORKSHEET** and provide **DESCRIPTIONS** of the proposed CEF buffer(s) and/or wetland mitigation. Provide the number of each type of CEFs on or within 150 feet of the site (Please provide the number of CEFs):

_____ (#s) Spring(s)/Seep(s) _____ (#s) Point Recharge Feature(s) _____ (#s) Bluff(s)
 1 _____ (#s) Canyon Rimrock(s) _____ (#s) Wetland(s)

Note: Standard buffers for CEFs are 150 feet, with a maximum of 300 feet for point recharge features. Except for wetlands, if the standard buffer is not provided, you must provide a written request for an administrative variance from LDC 25-8-281(C)(1) and provide written findings of fact to support your request. Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.

9. The following site maps are attached at the end of this report (Check all that apply and provide):

All ERI reports must include:

- Site Specific Geologic Map with 2-ft Topography**
- Historic Aerial Photo of the Site**
- Site Soil Map**
- Critical Environmental Features and Well Location Map on current Aerial Photo with 2-ft Topography**

Only if present on site (Maps can be combined):

- Edwards Aquifer Recharge Zone with the 1500-ft Verification Zone**
(Only if site is over or within 1500 feet the recharge zone)
- Edwards Aquifer Contributing Zone**
- Water Quality Transition Zone (WQTZ)**
- Critical Water Quality Zone (CWQZ)**
- City of Austin Fully Developed Floodplains for all water courses with up to 64-acres of drainage**

10. **HYDROGEOLOGIC REPORT** – Provide a description of site soils, topography, and site specific geology below (Attach additional sheets if needed):

Surface Soils on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups*. If there is more than one soil unit on the project site, show each soil unit on the site soils map.

Soil Series Unit Names, Infiltration Characteristics & Thickness		
Soil Series Unit Name & Subgroup**	Group*	Thickness (feet)
Tarrant soils and Urban land, 5 to 18 percent slopes	C	1
Tarrant soils and Urban land, 18 to 40 percent slopes	C	1

*Soil Hydrologic Groups Definitions (Abbreviated)
A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
B. Soils having a <u>moderate infiltration</u> rate when thoroughly wetted.
C. Soils having a <u>slow infiltration</u> rate when thoroughly wetted.
D. Soils having a <u>very slow infiltration</u> rate when thoroughly wetted.
**Subgroup Classification – See <u>Classification of Soil Series</u> Table in County Soil Survey.

Description of Site Topography and Drainage *(Attach additional sheets if needed):*

The property slopes from the west south west to the east northeast toward Lake Austin/Colorado River. The property slopes steeply adjacent to the river. A canyon rimrock (CEF) averaging approximately 8 feet tall transects the property in a north northwest/south south east orientation. The canyon rimrock abuts Lake Austin for a significant portion of the property shoreline. Westlake Drive abuts the property to the west southwest. An outbuilding is also present to the west of the main residence. The entire property is forested. No fringe wetlands are present along the property shoreline.

List surface geologic units below:

Geologic Units Exposed at Surface		
Group	Formation	Member
Trinity Group	Upper Glen Rose Limestone	Cretaceous

Brief description of site geology *(Attach additional sheets if needed):*

Limestone, dolomite, and marl in alternating resistant and recessive beds forming stair step topography; limestone, alphanitic to fine grained, hard to soft and marly, light grey to yellowish grey; dolomite, fine grained, porous, yellowish brown; marine megafossils include steinkems, rudistids oysters, and echinoids; upper part relatively thinner bedded, more dolomitic and less fossiliferous than lower part, thickness about 220 feet.

Wells – Identify all recorded and unrecorded wells on site (test holes, monitoring, water, oil, unplugged, capped and/or abandoned wells, etc.):

There are $\frac{0}{0}$ (#) wells present on the project site and the locations are shown and labeled
 $\frac{0}{0}$ (#s) The wells are not in use and have been properly abandoned.
 $\frac{0}{0}$ (#s) The wells are not in use and will be properly abandoned.
 $\frac{0}{0}$ (#s) The wells are in use and comply with 16 TAC Chapter 76.
 There are $\frac{0}{0}$ (#s) wells that are off-site and within 150 feet of this site.

11. **THE VEGETATION REPORT** – Provide the information requested below:

Brief description of site plant communities (*Attach additional sheets if needed*):

The property has a forested vegetation community, with natural/native vegetation on much of the property. Escarpment live oak (*Quercus fusiformis*), southern live oak (*Quercus virginiana*), and sugar-berry (*Celtis laevigata*) are the dominant canopy species on the property. Both canopy species along with Texas persimmon (*Diospyros texana*), Chinese privet (*Ligustrum sinense*), Carolina cherry laurel (*Prunus caroliniana*), and Chinese tallow (*Triadica sebifera*) are included in the sapling/shrub layer. The herbaceous layer on the property includes landscaping ivies, Chinese privet, turk's cap (*Malvaviscus arboreus*), poison ivy (*Toxicodendron radicans*), and indian wood-oats (*Chasmanthium latifolium*).

There is woodland community on site YES NO (*Check one*).

If yes, list the dominant species below:

Woodland species	
Common Name	Scientific Name
Southern live oak	<i>Quercus virginicus</i>
Escarpment live oak	<i>Quercus fusiformis</i>
Sugar-berry	<i>Celtis laevigata</i>

There is grassland/prairie/savanna on site..... YES NO (*Check one*).

If yes, list the dominant species below:

Grassland/prairie/savanna species	
Common Name	Scientific Name

There is hydrophytic vegetation on site YES NO (*Check one*).

If yes, list the dominant species in table below (*next page*):

Hydrophytic plant species		
Common Name	Scientific Name	Wetland Indicator Status

A tree survey of all trees with a diameter of at least eight inches measured four and one-half feet above natural grade level has been completed on the site.

YES NO (Check one).

12. WASTEWATER REPORT – Provide the information requested below.

Wastewater for the site will be treated by (Check of that Apply):

- On-site system(s)
- City of Austin Centralized sewage collection system
- Other Centralized collection system

Note: All sites that receive water or wastewater service from the Austin Water Utility must comply with City Code Chapter 15-12 and wells must be registered with the City of Austin

The site sewage collection system is designed and will be constructed to in accordance to all State, County and City standard specifications.

YES NO (Check one).

Calculations of the size of the drainfield or wastewater irrigation area(s) are attached at the end of this report or shown on the site plan.

YES NO Not Applicable (Check one).

Wastewater lines are proposed within the Critical Water Quality Zone?

YES NO (Check one). If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?

YES NO (Check one).

If yes, then describe the wastewater disposal systems proposed for the site, its treatment level and effects on receiving watercourses or the Edwards Aquifer.

13. One (1) hard copy and one (1) electronic copy of the completed assessment have been provided.

Date(s) ERI Field Assessment was performed: June 22, 2018
Date(s)

My signature certifies that to the best of my knowledge, the responses on this form accurately reflect all information requested.

Christopher Little

Print Name

281 252 9799

Telephone



Signature

clittle@descoenv.com

Email Address

DESCO Environmental Consultants, LP

Name of Company

July 13, 2018

Date

For project sites within the Edwards Aquifer Recharge Zone, my signature and seal also certifies that I am a licensed Professional Geoscientist in the State of Texas as defined by ECM 1.12.3(A).

P.G.
Seal

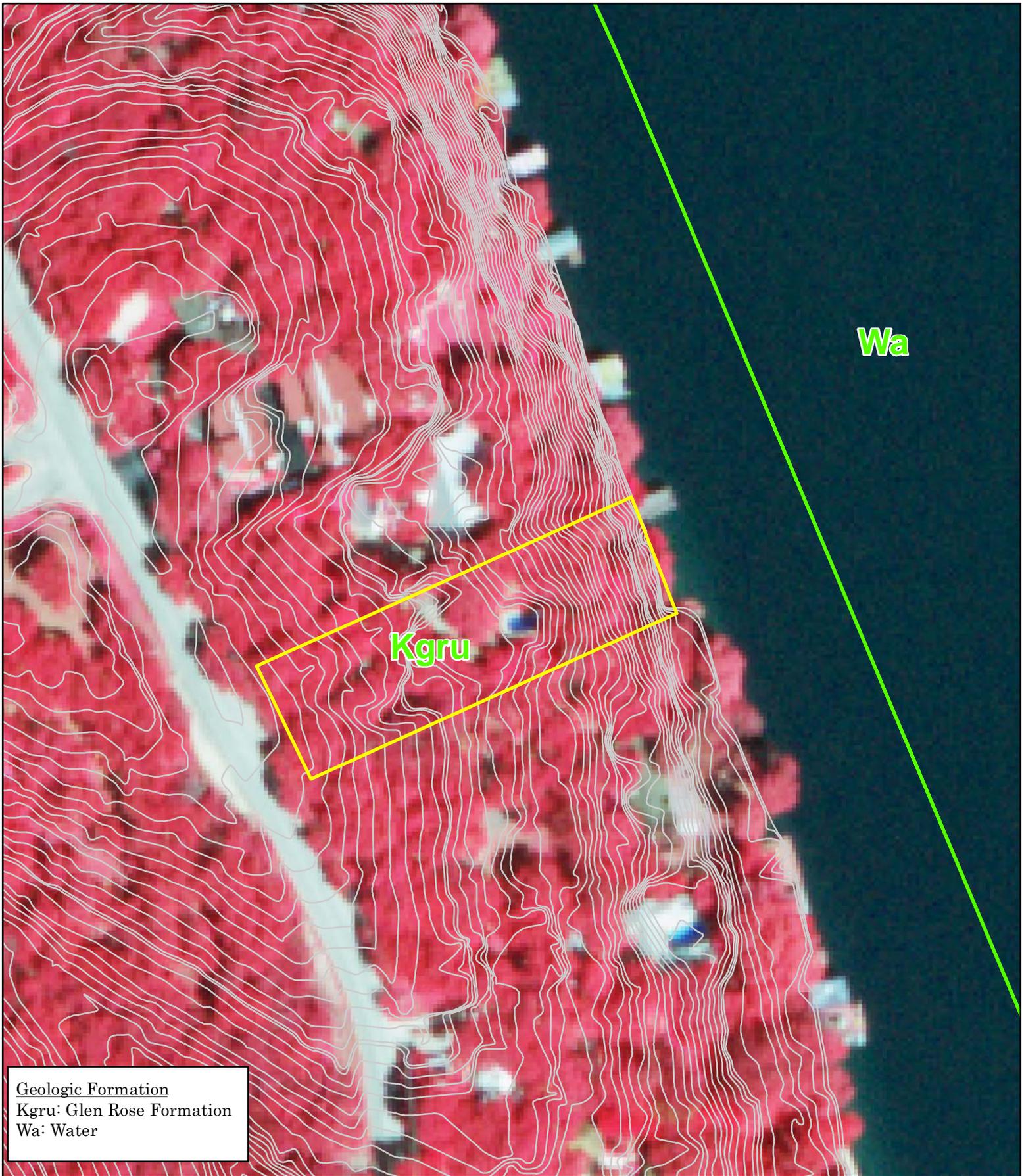


Figure 1: Site Specific Geologic Map with 2' Topography
 3801 Westlake Drive
 Travis County, Texas

Legend

- Parcel of Interest (CoA)
- Geologic Atlas of Texas - 250K (TNRIS)
- 2' Contours (CoA)

Map Base: 2016 CIR Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018

N
 1:1,200





Figure 2: Historical Aerial Imagery
3801 Westlake Drive

Travis County, Texas

Map Base: 1996 Aerial Imagery from TNRIS
Map Datum: NAD 1983 UTM Zone 14N, meters
Map Date: June 27, 2018

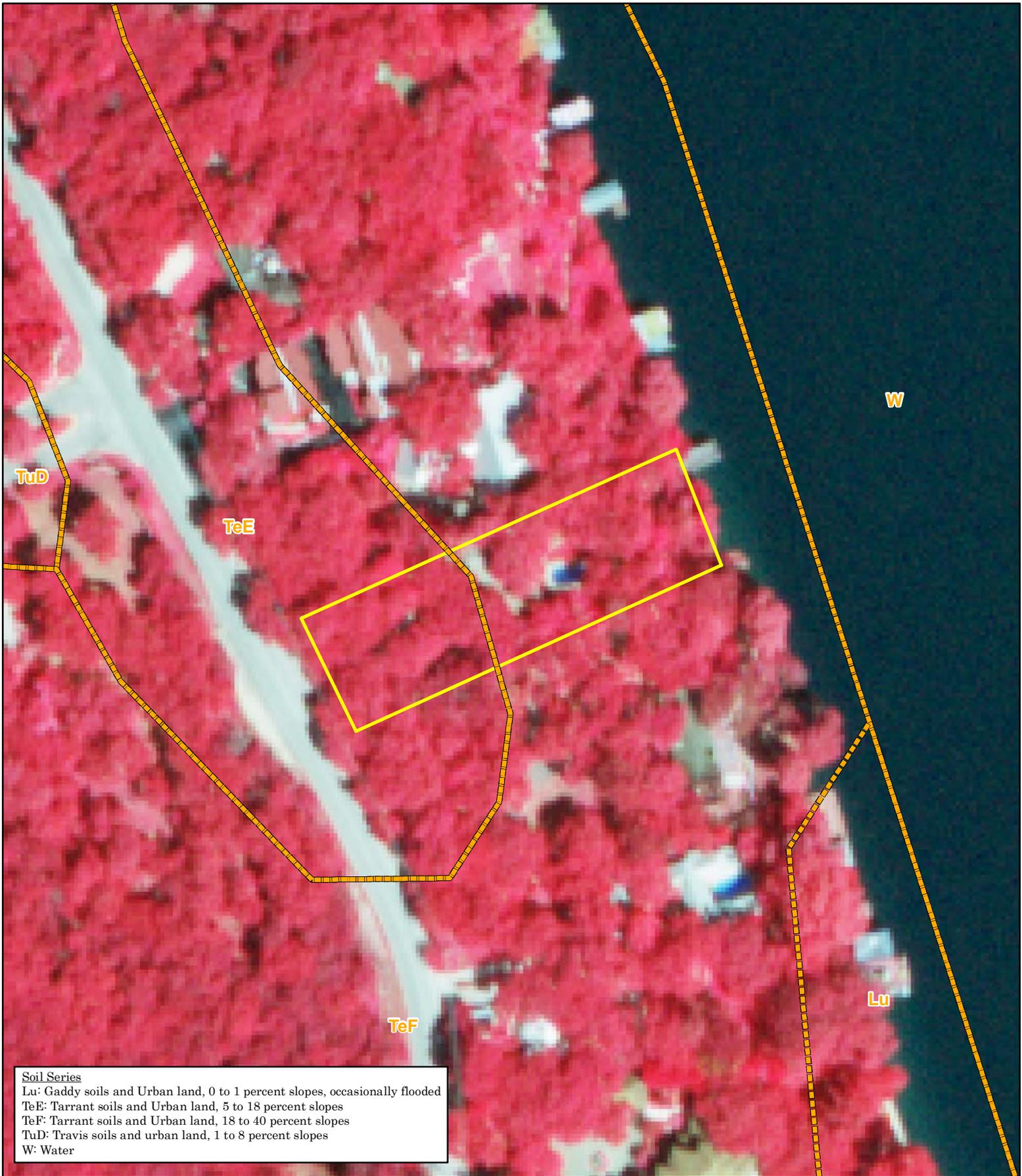
Legend

 Parcel of Interest (CoA)

N
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Page 48 of 55
100 Feet



Soil Series
 Lu: Gaddy soils and Urban land, 0 to 1 percent slopes, occasionally flooded
 TeE: Tarrant soils and Urban land, 5 to 18 percent slopes
 TeF: Tarrant soils and Urban land, 18 to 40 percent slopes
 TuD: Travis soils and urban land, 1 to 8 percent slopes
 W: Water

Legend

- Parcel of Interest (CoA)
- Soils (USDA/NRCS)

Figure 3: Site Soil Map
 3801 Westlake Drive
 Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018

N
 1:1,200
 DESCO
 Page 49 of 55
 100 Feet



No Wells On This Map

Legend

- 2' Contours (CoA)
- Rock Outcrop (CoA)
- Canyon Rimrock (DESCO)
- Parcel of Interest (CoA)
- 150' Buffer

Figure 4: Critical Environmental Features and Well Locations

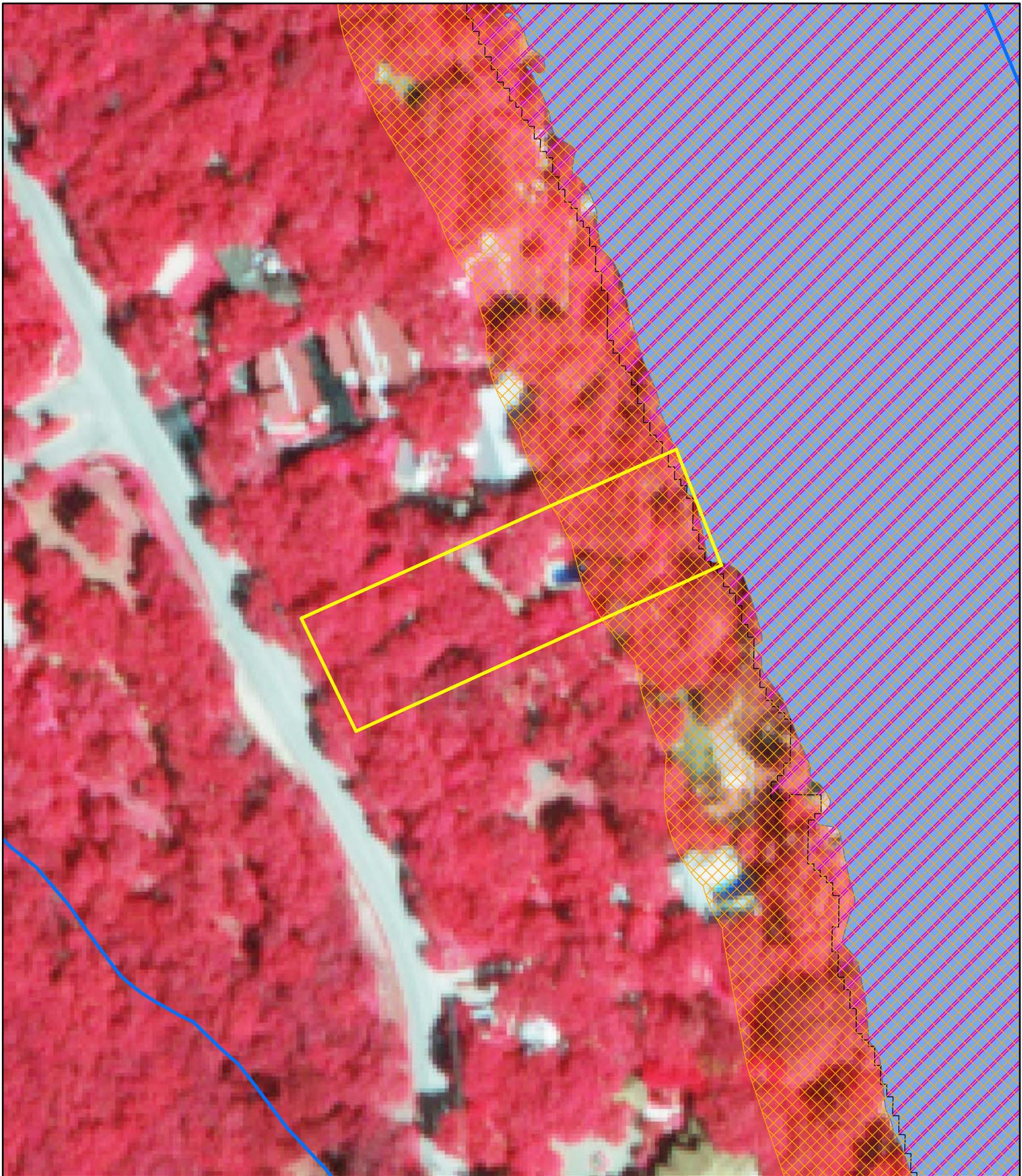
3801 Westlake Drive

Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018

N
 1:1,200





Legend

-  Waterways (CoA)
-  CWQZ (CoA)
-  Austin Fully Developed Floodplain (CoA)
-  Lakes (CoA)
-  Parcel of Interest (CoA)

Figure 5: CWQZ and Fully Developed Floodplain Map
3801 Westlake Drive
Travis County, Texas

Map Base: 2016 Aerial Imagery from TNRIS
 Map Datum: NAD 1983 UTM Zone 14N, meters
 Map Date: June 27, 2018



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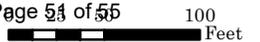


Figure 6: 3801 Westlake Dr - ERI Site Photos



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Photo 2: Front of property from Westlake Drive. Photo is facing the east northeast.



Photo 3: Front of residence taken from driveway. Photo is facing the northeast.



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