## Item 8a



### **ITEM FOR ENVIRONMENTAL COMMISSION AGENDA**

**BOARD MEETING** 

BOARD MEETING DATE REQUESTED:	September 2, 2015
NAME & NUMBER OF PROJECT:	Mayes Boat Dock SP-2014-0182D
NAME OF APPLICANT OR ORGANIZATION:	Permit Partners David Cancialosi, 512-593-5368
LOCATION:	3715 Westlake Dr
PROJECT FILING DATE:	May 15, 2014
DSD/Environmental Staff:	Mike McDougal, 512-974-6380 mike.mcdougal@austintexas.gov
WPD/ENVIRONMENTAL Staff:	Scott Hiers, P.G. 512-974-1916 scott.hiers@austintexas.gov
PDR/ Case Manager:	Christine Barton-Holmes, 512-974-2788 christine.barton-holmes@austintexas.gov
WATERSHED:	Lake Austin Watershed / Water Supply Rural Classification / Drinking Water Protection Zone
ORDINANCE:	Watershed Protection Ordinance (pre-2014 Lake Austin Ordinance)
REQUEST:	<ul> <li>Variance requests are as follows:</li> <li>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</li> <li>2. To allow fill up to 8 feet [LDC 25-8-342(A)]</li> </ul>
STAFF RECOMMENDATION	Variance 1: recommended with conditions. Variance 2: no recommendation.
REASONS FOR RECOMMENDATION:	Variance 1: Findings of fact have been met. Variance 2: Findings of fact have not been met.



### **PROJECT DESCRIPTION Applicant Contact Information**

Name of Applicant	David Cancialosi c/o Permit Partners LLC	
Street Address	105 W. Riverside Dr #225	
City State ZIP Code	Austin Texas 78704	
Work Phone	512-593-5361	
E-Mail Address	david@permit-patners.com	
Variance Case Informat	ion	
Case Name	Mayes Boat Dock	
Case Number	SP-2014-0182D	
Address or Location	3715 Westlake Dr.	
Environmental Reviewer Name	Mike McDougal	
Applicable Ordinance	LDC 25-8-281(C)(2)(b)	
Watershed Name	Lake Austin	
Watershed Classification	UrbanSuburbanWater Supply SuburbanXWater Supply RuralBarton Springs Zone	
Edwards Aquifer Recharge Zone	<ul> <li>Barton Springs Segment</li> <li>Northern Edwards Segment</li> <li>X Not in Edwards Aquifer Zones</li> </ul>	
Edwards Aquifer Contributing Zone	□ Yes X No	

City of Austin | Environmental Board Variance Application Guide 1

Distance to Nearest Classified Waterway	0'
Water and Waste Water service to be provided by	360 Water Supply COA / Travis County OSSF
Request	The variance request is as follows (Cite code references:
	LDC 25-8-281(C)(2)(b) to allow construction within a CEF buffer

Impervious cover	Existing	Proposed
square footage:	9,789	8,858
acreage:	.225	.203
percentage:	17.3	15.7
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)	Site consists of approx. 1.3 acres of land bet Austin. Elevation is from 571' at Westlake Drive to A Austin. There are 112 surveyed trees on the lot of 6 trees. The lot is sloping with areas of 0-15% along with a bluff line of great than 35% approxim There is an existing CEF 81.3' to the north o shoreline setback along Lake Austin.	493.6 at the bulkhead along Lake 5" caliper or greater with 8 heritage Westlake and the center of the site nately 50' from the shoreline.

Clearly indicate in what way the proposed project does not comply with	The project will require a fill of over 4' to build a construction and pedestrian path to the proposed boathouse and bulkhead reconstruction project.	
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current Code (include maps and exhibits)	The entirety of the existing bulkhead will be replaced with a new natural stone bulkhead conforming to current City of Austin standards. There is an exposed rim rock CEF condition 81.3' feet to the north of the property.	
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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: Mayes Boat Dock

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 or the safety of property given to owners of other similarly situated property with approximately contemporaneous development.

Yes. The property owner is proposing to utilize the property in a fair and reasonable manner that will implement greater environmental protections than what is currently in place. What the property owner is requesting will not provide privileged use but, will enhance the safety of the property and it's occupants by allowing the owner to fix a substantially failed bulkhead, install a walking path on cut and fill greater than 4' on a severely sloped lot, and allow construction within the CEF setback for features found on adjacent property whose location is out of property owner's control. The hyper-technical application of the aforementioned LDC code sections will deprive the property owner of a safe and necessary improvement to a property that has not been developed since the 1970's and thus, is in need of repair beyond the constraints of current COA LDC regulations.

- 2. The variance:
  - a) Is not based on a condition caused by the method chosen by the applicant to develop the property, unless the development method provides greater overall environmental protection than is achievable without the variance;

No. The property owner has gone to great lengths to redevelop the SF-2 zoned residential property in manner that is in keeping with the spirit and intent of various codes to the best of his ability and in the most practical manner. Further, the variances will allow the development to provide greater environmental protection that what has been on site since the property was initially developed prior to annexation into the COA jurisdiction.

b) Is the minimum change necessary to avoid the deprivation of a privilege given to other property owners and to allow a reasonable use of the property;

Yes. The owner is proposing the absolute minimum necessary to complete the project and enable the property's ability function in a reasonable manner while substantially improving overall environmental protection to the site, the adjacent sites, and the adjacent waterway as a whole. Without the variances, this is not achievable and the site will remain in a substandard, failed state of constant erosion and dangerous conditions. The bulkhead will be built a reduced footprint from it's known original footprint. The cut and fill for the walking path will be the minimum necessary to stabilize the slope and will be topped with non-concrete paver stones, and the CEF's are upstream from the site having negligible, if any, effect on them.

c) Does not create a significant probability of harmful environmental consequences; and

No. The proposed improvements will substantially impede any potential harmful environmental consequences, if any consequences exist at all.

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

Yes. Water quality controls will be in place and will be far better than the current absence of controls currently in place. The variances will allow the bulkhead to be repaired and will stop the soil erosion, the cut and fill to capture or divert run off, and are down stream from the specific CEF's in question.

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-393 (Water Quality Transition Zone), Section 25-8-423 (Water Quality Transition Zone), Section 25-8-453 (Water Quality Transition Zone), or Article 7, Division 1 (Critical Water Quality Zone Restrictions):
  - 1. The criteria for granting a variance in Section A are met; N/A

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

N/A

3. The variance is the minimum change necessary to allow a reasonable, economic use of the entire property.

N/A

\*\*Variance approval requires all above affirmative findings.



### **PROJECT DESCRIPTION Applicant Contact Information**

Name of Applicant	David Cancialosi c/o Permit Partners LLC	
Street Address	105 W. Riverside Dr #225	
City State ZIP Code	Austin Texas 78704	
Work Phone	512-593-5361	
E-Mail Address	david@permit-patners.com	
Variance Case Informat	ion	
Case Name	Mayes Boat Dock	
Case Number	SP-2014-0182D	
Address or Location	3715 Westlake Dr.	
Environmental Reviewer Name	Mike McDougal	
Applicable Ordinance	LDC 25-8-342	
Watershed Name	Lake Austin	
Watershed Classification	UrbanSuburbanWater Supply SuburbanXWater Supply RuralBarton Springs Zone	
Edwards Aquifer Recharge Zone	<ul> <li>Barton Springs Segment</li> <li>Northern Edwards Segment</li> <li>X Not in Edwards Aquifer Zones</li> </ul>	
Edwards Aquifer Contributing Zone	□ Yes X No	

City of Austin | Environmental Board Variance Application Guide 6

Distance to Nearest Classified Waterway	0'
Water and Waste Water service to be provided by	360 Water Supply COA / Travis County OSSF
Request	The variance request is as follows (Cite code references: LDC 25-8-342 to allow excess of 4' fill

Impervious cover	Existing	Proposed
square footage:	9,789	8,858
acreage:	.225	.203
percentage:	17.3	15.7
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)	Site consists of approx. 1.3 acres of land bet Austin. Elevation is from 571' at Westlake Drive to 4 Austin. There are 112 surveyed trees on the lot of 6 trees. The lot is sloping with areas of 0-15% along with a bluff line of great than 35% approxim There is an existing CEF 81.3' to the north of shoreline setback along Lake Austin.	493.6 at the bulkhead along Lake " caliper or greater with 8 heritage Westlake and the center of the site nately 50' from the shoreline.

Clearly indicate in what way the proposed project	The project will require a fill of over 4' to build a construction and pedestrian path to the proposed boathouse and bulkhead
does not comply with	reconstruction project.
current Code (include maps and exhibits)	The entirety of the existing bulkhead will be replaced with a new natural stone bulkhead conforming to current City of Austin standards.

City of Austin | Environmental Board Variance Application Guide 7

There is an exposed rim rock CEF condition 81.3' feet to the north of the property.

#### **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: Mayes Boat Dock** 

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 or the safety of property given to owners of other similarly situated property with approximately contemporaneous development.

Yes. The property owner is proposing to utilize the property in a fair and reasonable manner that will implement greater environmental protections than what is currently in place. What the property owner is requesting will not provide privileged use but, will enhance the safety of the property and it's occupants by allowing the owner to fix a substantially failed bulkhead, install a walking path on fill greater than 4' on a severely sloped lot, and reduce the CEF setback for features found on adjacent property whose location is out of property owner's control. The hyper-technical application of the aforementioned LDC code sections will deprive the property owner of a safe and necessary improvement to a property that has not been developed since the 1970's and thus, is in need of repair beyond the constraints of current COA LDC regulations.

- 2. The variance:
  - a) Is not based on a condition caused by the method chosen by the applicant to develop the property, unless the development method provides greater overall environmental protection than is achievable without the variance;

No. The property owner has gone to great lengths to redevelop the SF-2 zoned residential property in manner that is in keeping with the spirit and intent of various codes to the best of his ability and in the most practical manner. Further, the variances will allow the

development to provide greater environmental protection that what has been on site since the property was initially developed prior to annexation into the COA jurisdiction.

b) Is the minimum change necessary to avoid the deprivation of a privilege given to other property owners and to allow a reasonable use of the property;

Yes. The owner is proposing the absolute minimum necessary to complete the project and enable the property's ability function in a reasonable manner while substantially improving overall environmental protection to the site, the adjacent sites, and the adjacent waterway as a whole. Without the variances, this is not achievable and the site will remain in a substandard, failed state of constant erosion and dangerous conditions. The bulkhead will be built a reduced footprint from it's known original footprint. The fill for the walking path will be the minimum necessary to stabilize the slope and will be topped with non-concrete paver stones, and the CEF's are upstream from the site having negligible, if any, effect on them.

c) Does not create a significant probability of harmful environmental consequences; and

No. The proposed improvements will substantially impede any potential harmful environmental consequences, if any consequences exist at all.

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

Yes. Water quality controls will be in place and will be far better than the current absence of controls currently in place. The variances will allow the bulkhead to be repaired and will stop the soil erosion, the fill to capture or divert run off, and are down stream from the specific CEF's in question.

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-393 (Water Quality Transition Zone), Section 25-8-423 (Water Quality Transition Zone), Section 25-8-453 (Water Quality Transition Zone), or Article 7, Division 1 (Critical Water Quality Zone Restrictions):
  - 1. The criteria for granting a variance in Section A are met; N/A

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

N/A

3. The variance is the minimum change necessary to allow a reasonable, economic use of the entire property.

N/A

\*\*Variance approval requires all above affirmative findings.



### **MEMORANDUM**

**TO:** Chair Maxwell and Members of the Environmental Commission

**FROM:** Scott Hiers, P.G., Hydrogeologist Watershed Protection Department

Mike McDougal, Environmental Review Specialist Senior Development Services Department

**DATE:** September 2, 2015

SUBJECT: Mayes Boat Dock SP-2014-0182D

On the September 2, 2015 agenda is a request for the consideration of two variances to allow a construction of a boat dock, shoreline access, and shoreline stabilization within a Critical Environmental Feature rimrock (CEF) buffer [LDC 25-8-281(C)(2)(b)] and to allow fill up to 8 feet [LDC 25-8-342(A)].

#### **Property Location**

The property is located at 3715 Westlake Drive (Exhibit 1 Location Map and Exhibit 2 Site Aerial). Adjacent use is residential.

#### Watershed Data

The 1.37 acre property is located within the Lake Austin Watershed (classified as Water Supply Rural) and is not located within the Edwards Aquifer Recharge Zone. Surface water generally drains from the west to east / northeast. (Exhibit 3 Topography and Critical Water Quality Zone Map). City of Austin GIS shows a Critical Water Quality Zone associated with Lake Austin (Exhibit 3 Topography and Critical Water Quality Zone Map.

#### **Jurisdictional Data**

The property is within the City of Austin full purpose jurisdiction and is zoned SF-2.

#### Trees / CEFs

A rimrock Critical Environmental Feature is located offsite (on the property immediately north of the subject property). A portion of the 150 foot Critical Environmental Feature buffer extends onto the

subject tract (Exhibit 4 – CEF Map). Vegetation and Critical Environmental Features are described in the attached Environmental Resource Inventory (Exhibit 5 COA Environmental Resource Inventory).

#### Variance Request

An existing single family residence and boat dock with bulkhead is located on the property. The applicant seeks to remove the existing boat dock, construct a new boat dock, and install a new bulkhead in front (lakeside) of the existing bulkhead. A portion of the proposed bulkhead construction and the proposed boat dock construction are located within this Critical Environmental Feature buffer.

The applicant also seeks to remove a walkway and steps accessing the existing (to be removed) boat dock. In addition, the applicant seeks to install a new walkway and steps accessing the new boat dock. A portion of the proposed walkway (located at the southeast portion of the property) will require fill up to 8 feet (Exhibit 6 Proposed Fill). This fill will not exceed an area of 225 square feet.

Therefore, the following variances to the Land Development Code (LDC) have been requested: 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)].

#### Site Photographs

Site photographs are provided in Exhibit 7.

#### **Conditions for Staff Approval**

Staff recommends approval of the CEF variance (variance 1) provided that 609S.6 vegetation will be planted and maintained by the applicant where the limit of construction enters into the Critical Water Quality Zone.

There is no Staff recommendation for the fill variance request (variance 2). Review staff and the applicant were not aware that the proposed fill variance did not meet the findings of fact until very late in the review process due to a mis-communication with the Environmental Officer. As a result, the Environmental Officer agreed to take this variance forward with no recommendation.

#### **Recommendation**

The Findings of Fact have been met for the CEF variance. Staff recommends approval of the CEF variance with the above conditions. As noted above, there is no staff recommendation on variance two.



#### Watershed Protection Department Staff Recommendations Concerning Required Findings Water Quality Variances

Project:	Mayes Boat Dock- SP-2014-0182DS	
Ordinance Standard:	Land Development Code Section 25-8-281(C)(2)(b)	
Variance Request:	To allow construction of a boat dock, shoreline access and shoreline stabilization within a Critical Environmental Feature (CEF) buffer for a canyon rimrock.	

Justification:

- A. Land Use Commission variance determinations from Chapter 25-8, Subchapter A Water Quality of the City Code:
  - 1. The requirement will deprive the applicant of a privilege or the safety of property given to owners of other similarly situated property with approximately contemporaneous development.

## Yes. Properties with frontage along Lake Austin frequently contain boat docks and neighboring properties adjacent to the subject property have boat docks.

- 2. The variance:
  - a) Is not based on a condition caused by the method chosen by the applicant to develop the property, unless the development method provides greater overall environmental protection than is achievable without the variance;

#### Yes. The construction of boat dock, which is typical a construction activity for shoreline properties along the lake, is occurring down gradient and to the side of the rimrock critical environmental feature that is located off-site on the adjacent property to the north.

b) Is the minimum change necessary to avoid the deprivation of a privilege given to other property owners and to allow a reasonable use of the property;

Yes. The applicant is not requesting to exceed the allowable 20% of the shoreline frontage.

c) Does not create a significant probability of harmful environmental consequences; and

Yes. The construction of a boat dock, shoreline stabilization, and shoreline access will not create a significant probability of harmful environmental consequences. The construction activities required is occurring down gradient and to the side of rimrock critical environmental feature that is located on the adjacent property. The construction activities will not cause significant discharge of sediment into lake.

**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 construction activities required for the boat dock, shoreline access and shoreline stabilization would result in at least equal or greater water quality, because the proposed construction activity is occurring down gradient and to the side of the rimrock critical environmental feature. As a result, there will be no increase sediment-laden runoff over the rimrock or impacts to the rimrock.

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-393 (Water Quality Transition Zone), Section 25-8-423 (Water Quality Transition Zone), Section 25-8-453 (Water Quality Transition Zone), or Article 7, Division 1 (Critical Water Quality Zone Restrictions):
  - 1. The above criteria for granting a variance are met;

N/A.

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

*N/A*.

3. The variance is the minimum change necessary to allow a reasonable, economic use of the entire property.

*N/A*.

Environmental Officer:

Chuck Lesniak

Date: August 25, 2015

Staff may recommend approval of a variance after answering all applicable determinations in the affirmative (YES).



#### Development Services Department Staff Recommendations Concerning Required Findings Water Quality Variances

Project:	Mayes Boat Dock- SP-2014-0182DS	
Ordinance Standard:	Land Development Code Section 25-8-342(A)	
Variance Request:	To allow fill up to 8 feet for the construction of a walkway to access the boat dock.	

#### Justification:

- A. Land Use Commission variance determinations from Chapter 25-8, Subchapter A Water Quality of the City Code:
  - 1. The requirement will deprive the applicant of a privilege or the safety of property given to owners of other similarly situated property with approximately contemporaneous development.

No. There are alternatives to the variance that would allow the necessary access to the boat dock.

#### 2. The variance:

a) Is not based on a condition caused by the method chosen by the applicant to develop the property, unless the development method provides greater overall environmental protection than is achievable without the variance;

No. Boat dock access is necessary; however, access can be provided without fill in excess of 4 feet. Specifically, access can be provided on the steeper portions of the property by constructing a boardwalk type structure and on less steep portions of the property, the access can be constructed with cut and fill of 4 feet or less. Proposed fill up to 8 feet does not provide greater overall environmental protection than is achievable via a construction of a boardwalk type structure.

b) Is the minimum change necessary to avoid the deprivation of a privilege given to other property owners and to allow a reasonable use of the property;

No. The applicant has minimized the footprint of the proposed fill over 4 feet; however, access to the boat dock can be provided while maintaining grading amounts of 4 feet or less. Fill in excess of 4 feet does not represent the minimum change necessary to avoid the deprivation of a privilege given to other property owners and to allow a reasonable use of the property.

c) Does not create a significant probability of harmful environmental consequences; and

Yes. The fill will be structurally contained by a retaining wall prior to the commencement of fill activities. Sediment will be contained before and after vegetative stabilization is achieved.

**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 fill will be structurally contained by a retaining wall to be built prior to the placement of fill over 4 feet. Sediment will be contained before and after vegetative stabilization is achieved.

- B. Additional Land Use Commission variance determinations for a requirement of Section 25-8-393 (Water Quality Transition Zone), Section 25-8-423 (Water Quality Transition Zone), Section 25-8-453 (Water Quality Transition Zone), or Article 7, Division 1 (Critical Water Quality Zone Restrictions):
  - 1. The above criteria for granting a variance are met;

*N/A*.

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

*N/A*.

3. The variance is the minimum change necessary to allow a reasonable, economic use of the entire property.

*N/A*.

Environmental Reviewer:

Mike McDougat

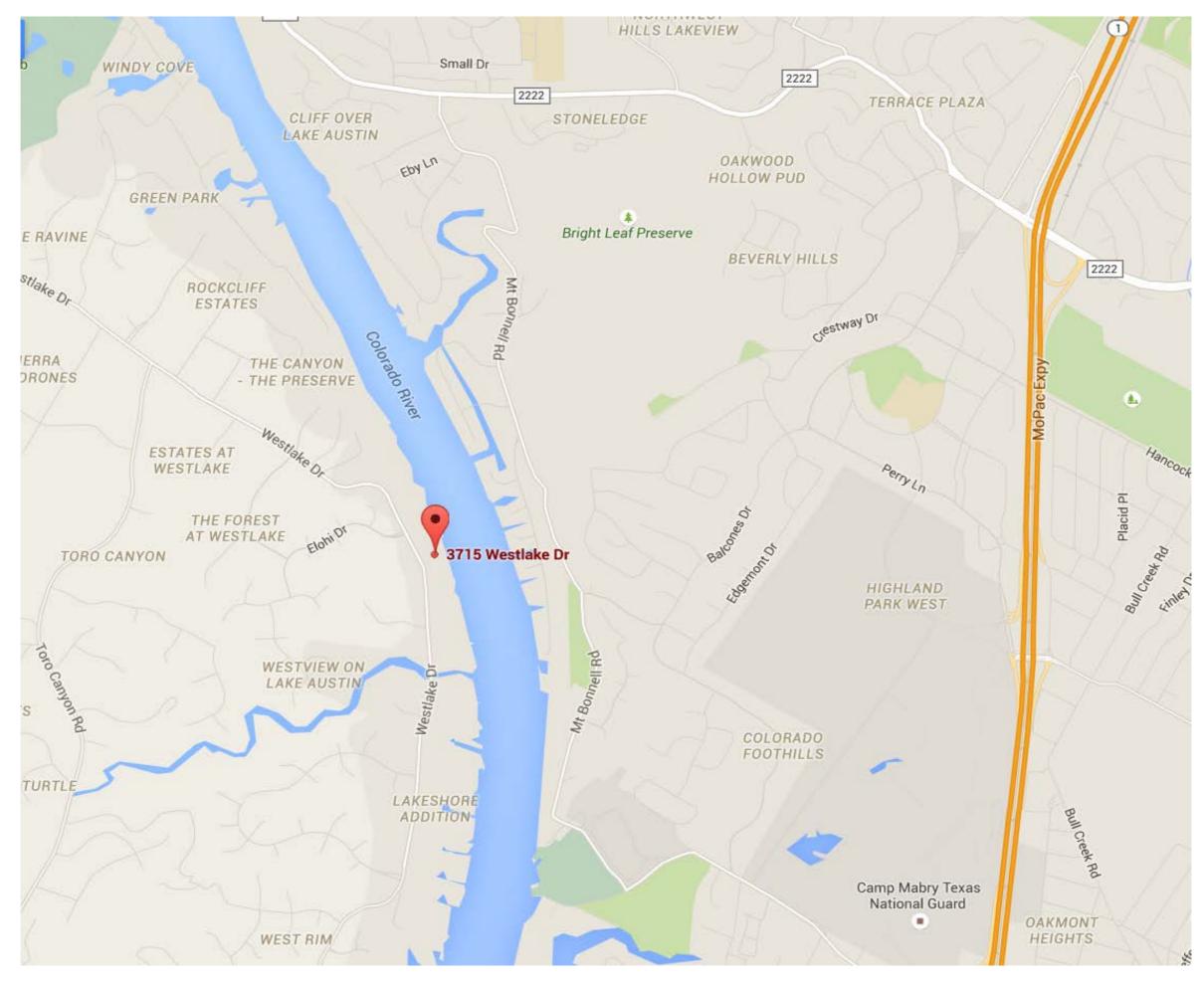
Environmental Program Coordinator:

**Environmental Officer:** 

Barnett nn Sue Barnett Chuck Lesniak

Date: August 25, 2015

Staff may recommend approval of a variance after answering all applicable determinations in the affirmative (YES).



## Exhibit 1 - Location Map







Exhibit 2 - Site Aerial

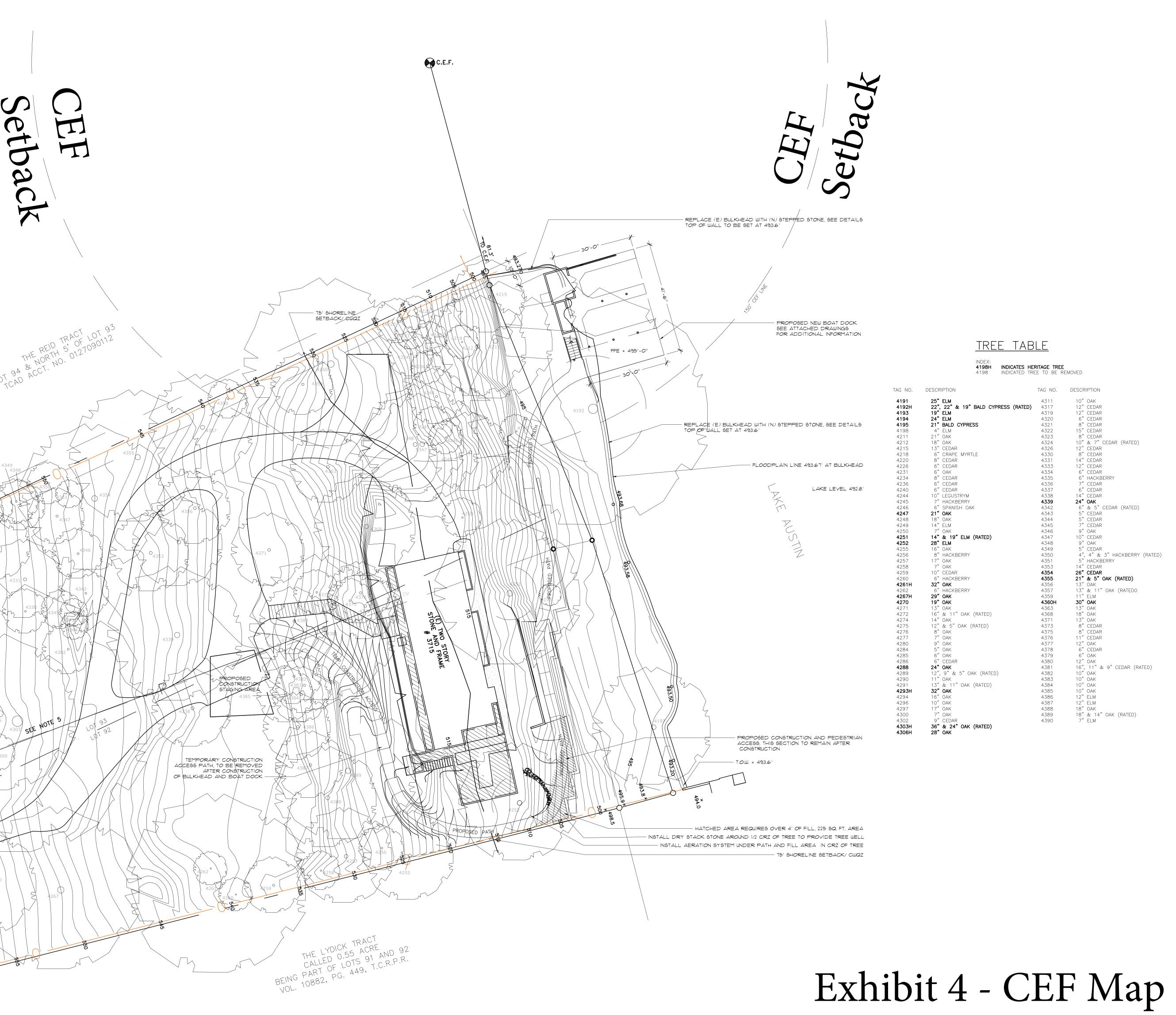


Exhibit 3 - Topography and Critical Water Quality Zone Map

# Lake Austin



North Not to Scale





10" OAK 12" CEDAR 12" CEDAR 6" CEDAR 8" CEDAR 15" CEDAR 8" CEDAR 10" & 7" CEDAR (RATED) 12" CEDAR 8" CEDAR 14" CEDAR 14" CEDAR 8" CEDAR 4" CEDAR 12" CEDAR 6" CEDAR 6" HACKBERRY 7" CEDAR 6" A CEDAR 24" OAK 6" & 5" CEDAR (RATED) 5" CEDAR 9" OAK 10" CEDAR 9" OAK 10" CEDAR 4", 4" & 3" HACKBERRY (RATED) 5" HACKBERRY 14" CEDAR 26" CEDAR 21" & 5" OAK (RATED) 13" OAK 14" CEDAR 11" CEDAR 12" OAK 13" OAK 13" OAK 13" OAK 13" OAK 14" CEDAR 11" CEDAR 11" CEDAR 12" OAK 10" OAK



Cas	se N	0.:	
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#### Exhibit 5 Environmental Resource Inventory

For the City of Austin

Relating to the Land Development Code (LDC) Section 25-8, Title 30-5, ECM 1.3.0 & 1.10.0 Effective October 28, 2013

- 1. SITE/PROJECT NAME: 3715 Westlake Drive
- 2. COUNTY APPRAISAL DISTRICT PROPERTY ID (#'s): 123442
- 3. ADDRESS/LOCATION OF PROJECT: 3715 Westlake Drive
- 4. WATERSHED: Lake Austin
- 5. THIS SITE IS WITHIN THE (Check all that apply):

Edwards Aquifer Recharge Zone* (See note below)	<b>□</b> YES	🛛 NO
Edwards Aquifer Contributing Zone*	<b>□</b> YES	X NO
Edwards Aquifer 1500-ft Verification Zone*	<b>□</b> YES	🛛 NO
Barton Springs Zone*	<b>□</b> YES	X NO
*(as defined by the City of Austin – LDC 25-8-2)		

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 lf 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, or
  - □ (3) The floodplain modifications proposed are necessary for development allowed in the critical water **quality zone under Section 25-8-261 or 25-8-262 of the LDC**.
  - (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 Section 1,7 and Appendix X in the Environmental Criteria Manual for forms and guidance) unless conditions 1 or 3 above apply.

\*\*\*If yes, then riparian restoration is required by Section 25-8-261(E) of the LDC and a functional assessment must be completed and attached to the ERI (see Section 1.5 and Appendix X in the Environmental Criteria Manual for forms and guidance).

8. There is a total of <u>1</u> (#s) Critical Environmental Feature(s)(CEFs) on or within150 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) \_\_\_\_(#'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 <u>not provided</u>, you must provide a written request for an administrative variance from Section 25-8-281(C)(1) and provide written findings of fact to support your request. <u>Request forms for administrative variances from requirements stated in LDC 25-8-281 are available from Watershed Protection Department.</u>

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 & Urban land, 5-18% slopes (TeE)	С	0.3-1.2			
Tarrant soils & Urban land, 8-40% slopes (TeE)	С	0.3-1.2			

\*Soil Hydrologic Groups Definitions (Abbreviated)

- A. Soils having a <u>high infiltration</u> rate when thoroughly wetted.
- B. Soils having a <u>moderate</u> <u>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</u> <u>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):

Site topography ranges from 492 to 570 feet above mean sea level (MSL). Drainage on the Property occurs via overland sheet flow down to Lake Austin.

#### List surface geologic units below:

Geologic Units Exposed at Surface					
Group	Formation	Member			
Trinity	Glen Rose (Kgr[u])	Upper			
N/A	Quatenary Terrace Deposits (Qt)	N/A			

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

The upper member of the Glen Rose Limestone is relatively impermeable and described as the lower confining unit of the Edwards Aquifer. It has a maximum thickness of about 350 to 500 feet. Stair-step topography is characteristic of the upper member of the Glen Rose Limestone. The Upper Glen Rose Limestone is described as yellowish-tan, thinly bedded limestone and marl. The upper member of the Glen Rose Limestone is relatively more thinly bedded, more dolomitic, and less fossiliferous than the lower member of the Glen Rose Limestone. The top of the upper member of the Glen Rose Limestone is red-stained, lumpy, irregular, and bored, with oysters cemented onto the surface.

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

There are <u>0</u>(#) wells present on the project site and the locations are shown and labeled

- (#'s)The wells are not in use and have been properly abandoned.
- (#s)The wells are not in use and will be properly abandoned.
- (#'s)The wells are in use and comply with 16 TAC Chapter 76.

There are <u>0</u> (#'s) wells that are off-site and within 150 feet of this site.

WPD ERM ERI-2014-01

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

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

Upland canopy species consist of Chinese tallow, Ashe juniper plateau live oak , hackberry cedar elm. St. Augustine is the predominant ground cover.

Wetland species include bald cypress, sycamore, and black willow.

There is woodland community on site  $\square$  VES  $\square$  NO *(Check one).* If yes, list the dominant species below:

Woodland species				
Common Name	Scientific Name			
Chinese tallow	Triadica sebifera			
Ashe juniper	Juniperus ashei			
plateau live oak	Quercus fusiformis			
hackberry	Celtis laevigata			
cedar elm	Ulmus crassfolia			

Grassland/prairie/savanna species					
Common Name	Scientific Name				

There is hydrophytic vegetation on site \_\_\_\_\_\_ XYES 🗆 NO (*Check one*). If yes, list the dominant species in table below (*next page*):

Hydrophytic plant species				
Common Name	Scientific Name	Wetland Indicator Status		
bald cypress	Taxodium distichum	OBL		
sycamore	Platanus occidentalis	FAC		
black willow	Salix nigra	FACW		

A tree survey of all trees with a diameter of at least eight inches measured four and onehalf feet above natural grade level has been completed on the site.  $\blacksquare$ YES  $\square$  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)
- Z 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 Chapter 15-12 of Austin City Code 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.  $\blacksquare$ YES  $\square$  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.  $\Box$ YES  $\Box$  NO  $\boxtimes$  Not Applicable *(Check one).* 

Wastewater lines are proposed within the Critical Water Quality Zone?  $\Box$  YES  $\boxtimes$  NO *(Check one).* If yes, then provide justification below:

Is the project site is over the Edwards Aquifer?  $\Box$  YES  $\boxtimes$  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: 27 March 2014

Date(s)

sdorsey@horizon-esi.com

**Email Address** 

15 April 2014

Date

512.328.2430 Telephone

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

Mr. Shannon Dorsey, PWS #1760

Print Name		
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Signature Z	8	AM 1998 A THINK IN THE TREE TO THE TREE
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Horizon Environmental Services, Inc.

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).

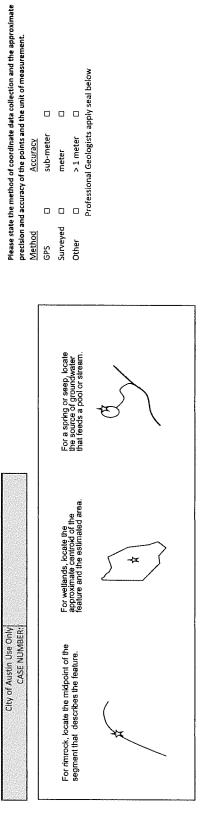
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City of Austin Environmental Resource Inventory - Critical Environmental Feature Worksheet

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	FEATURE LATITUDE (WGS 1984 in Meters) coordinate	617394						
	IDE ers) notation	N						
Jrive Drive	FEATURE LONGITUDE (WGS 1984 in Meters) coordinate	1055555						
3715 Westlake I 3715 Westlake I 27 March 2014 2 April 2014	FEATURE ID (eg S-1)	CEF 1						
Project Name:     3715 Westlake Drive       Project Address:     3715 Westlake Drive       Project Address:     515 Westlake Drive       Site Visit Date:     27 March 2014       Environmental Resource Inventory Date:     2 April 2014	FEATURE TYPE (Wetland,Rinnock, Bluffs,Recharge Feature,Spring)	Rinnock						
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Attachments

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**Environmental Services, Inc.** 

#### ATTACHMENT A

#### **CEF DESCRIPTION AND REFERENCES**

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CORPORATE HEADQUARTERS 1507 South IH 35 \* Austin, Texas 78741 \* 512.328.2430 \* Fax 512.328.1804 \* www.horizon-esi.com Certified WBE/HUB/DBE/SBE



#### 1.0 CRITICAL ENVIRONMENTAL FEATURES

The City of Austin definition of a critical environmental feature (CEF) includes caves, sinkholes, springs, wetlands, bluffs, canyon rimrock, water wells within the Edwards Aquifer, and significant recharge features located over the Edwards Aquifer Recharge Zone. One potential CEF, as defined by the City of Austin, was found within 150 feet from the subject site. One rimrock CEF (CEF 1) was located 50 feet north of the subject site. No other CEFs were found on or within 150 feet from the subject site. CEF feature dimensions and location are provided on the City of Austin CEF worksheet.

If the subject site is proposed for future development, the City of Austin generally requires 150-foot buffer zones be placed on all CEFs.

#### 2.0 REFERENCES

- (COA) City of Austin. City of Austin GIS Data Sets. Year 2003 2-foot contours of the City of Austin and ETJ only <ftp://ftp.ci.austin.tx.us/GIS-Data/Regional/coa\_gis.html>. 2003.
- \_\_\_\_\_. City of Austin GIS Data Sets. Watershed Regulation Areas. <ftp://ftp.ci.austin.tx.us/ GIS-Data/Regional/coa\_gis.html>. 30 October 2012.
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- Garner, L.E., and K.P. Young. *Environmental Geology of the Austin Area: An Aid to Urban Planning.* Report of Investigations 86. The University of Texas at Austin, Bureau of Economic Geology. 1976.
- (NRCS) Natural Resources Conservation Service (formerly the Soil Conservation Service) US Department of Agriculture. Web Soil Survey, <a href="http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx">http://websoilsurvey.aspx</a>. Accessed 2 April 2014.
- Rose, P.R. *Edwards Group, Surface and Subsurface, Central Texas.* Report of Investigations 74. The University of Texas at Austin, Bureau of Economic Geology. 1972.
- (USDA) US Department of Agriculture. National Agriculture Imagery Program, Farm Service Agency, Aerial Photography Field Office. Travis County, Texas. 2012.
- (USGS) US Geological Survey. Digital Orthophoto Quarter-Quadrangle, Austin West, Texas. 1995.

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- Werchan, Leroy E., A.C. Lowther, and Robert N. Ramsey. *Soil Survey of Travis County, Texas.* US Department of Agriculture, Natural Resources Conservation Service (formerly Soil Conservation Service), in cooperation with the Texas Agricultural Experiment Station. 1974.

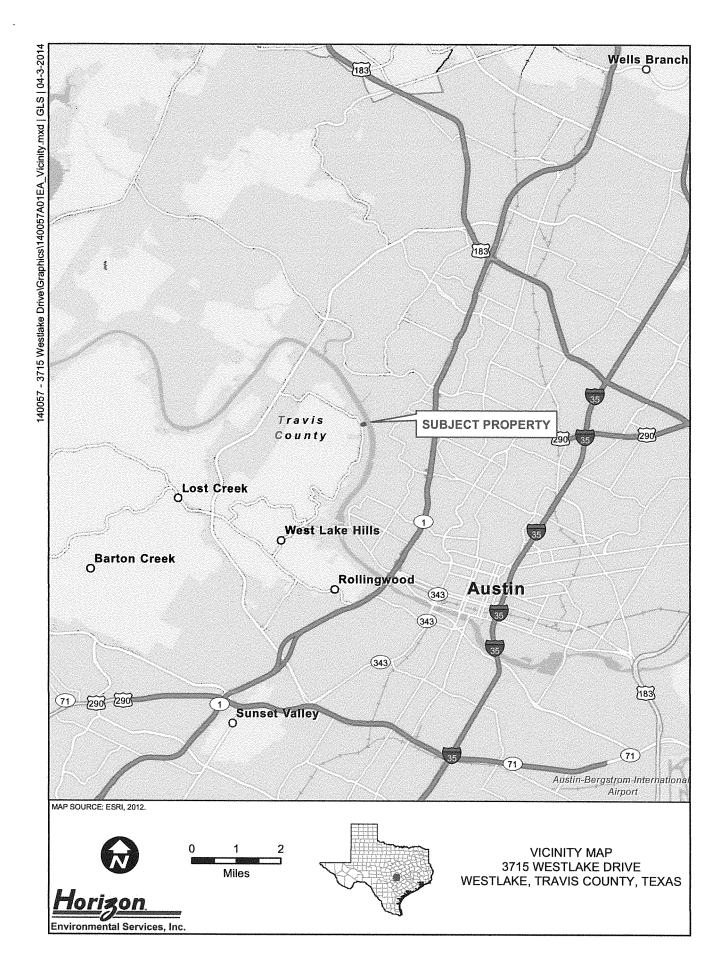


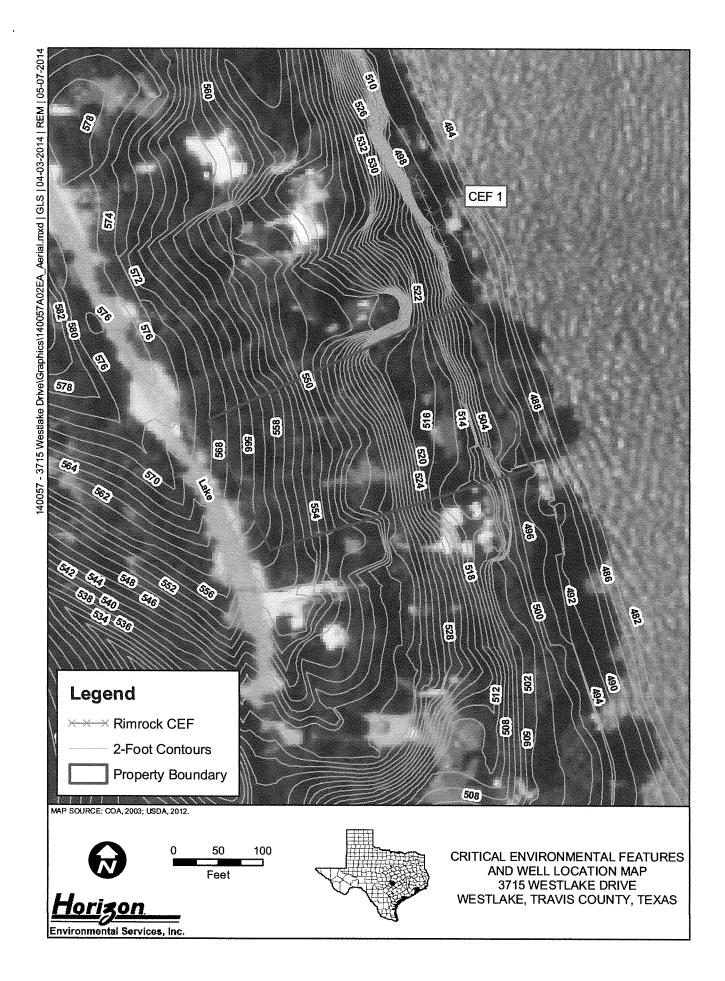
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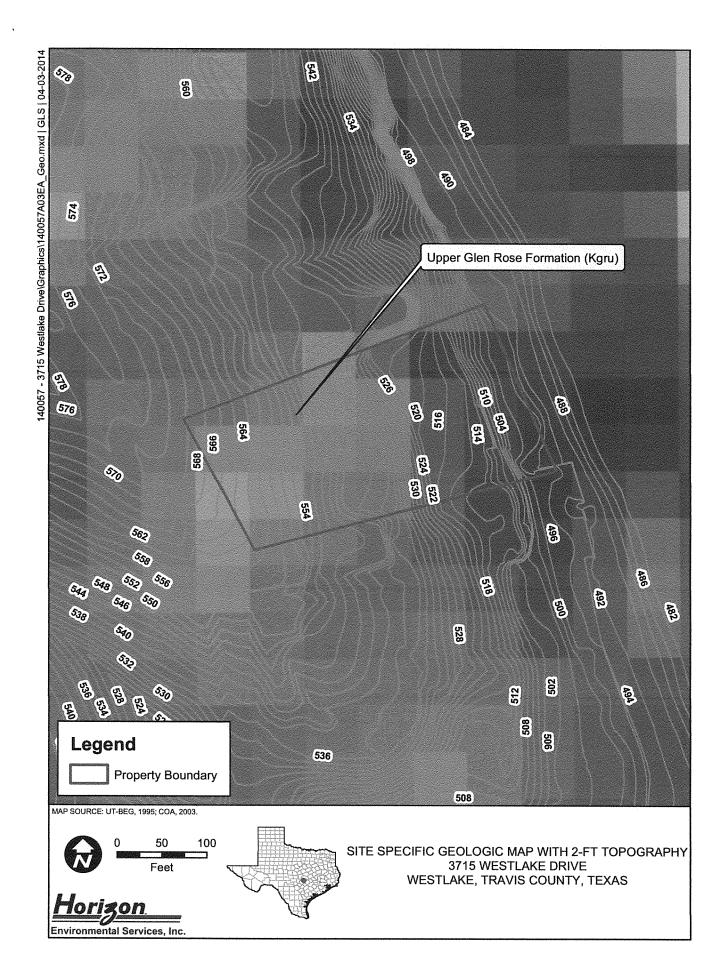
ATTACHMENT B

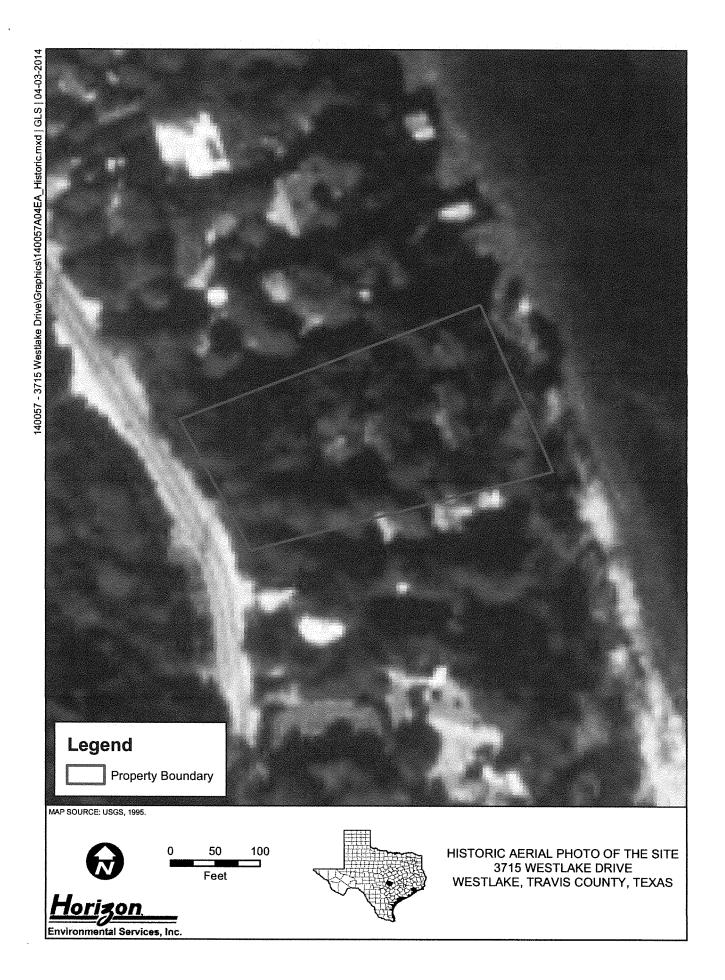
FIGURES

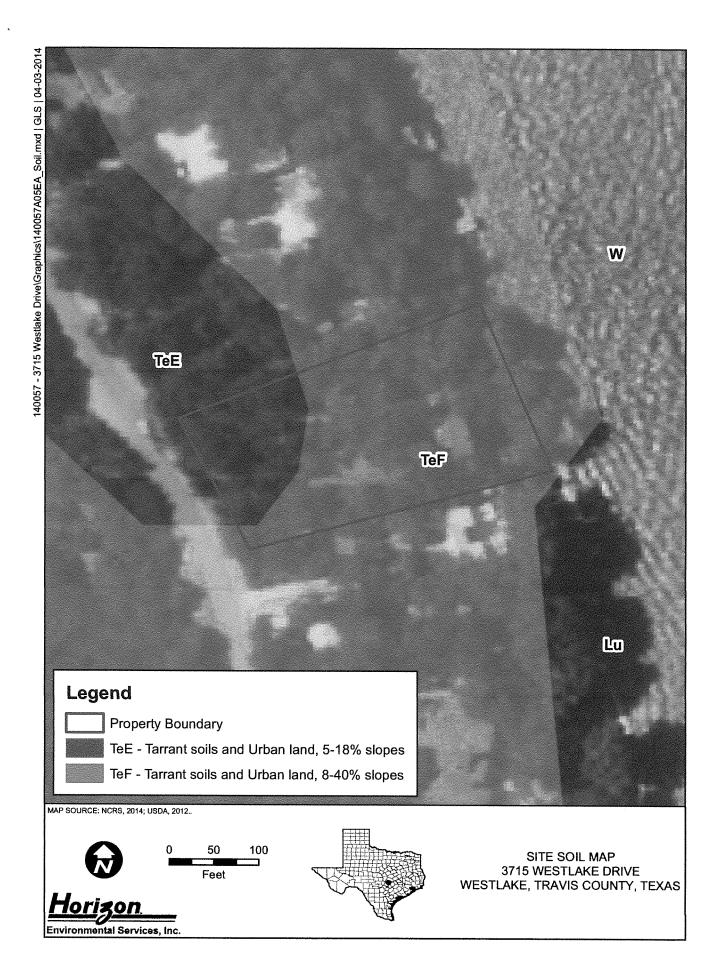
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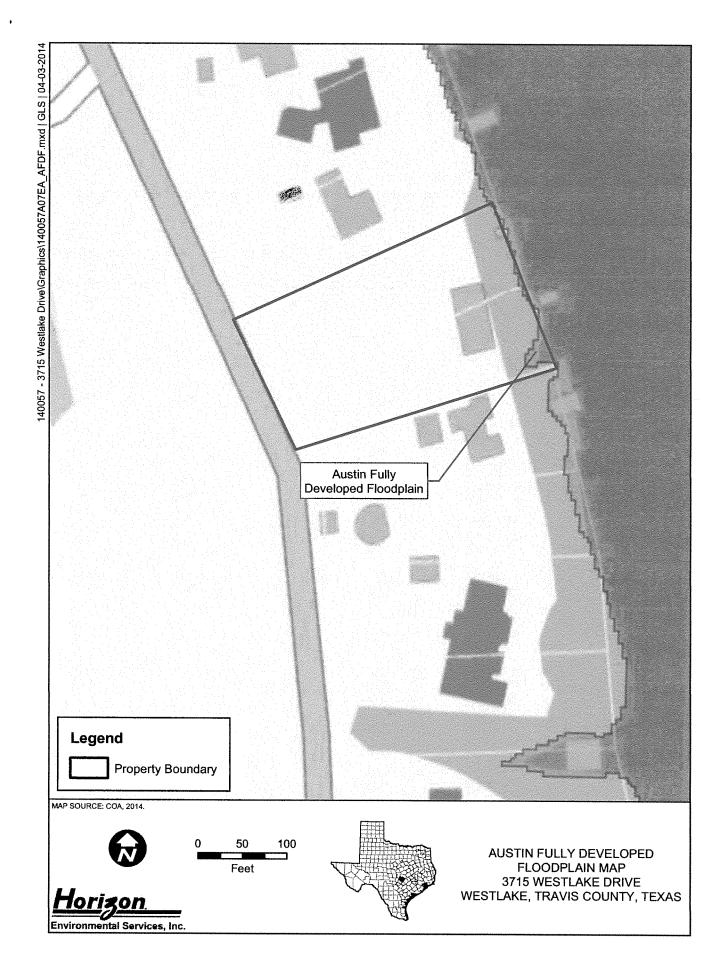














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## ATTACHMENT C

## SITE PHOTOGRAPHS

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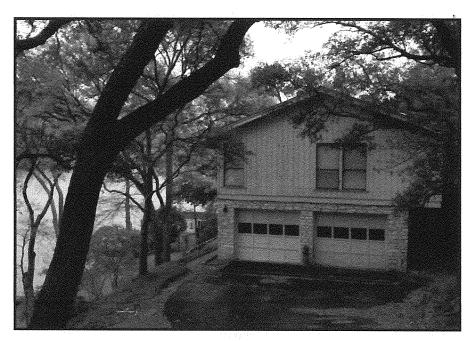


PHOTO 1 View of SFR located on the subject site



PHOTO 2 View of Lake Austin, located on the east side of the subject site

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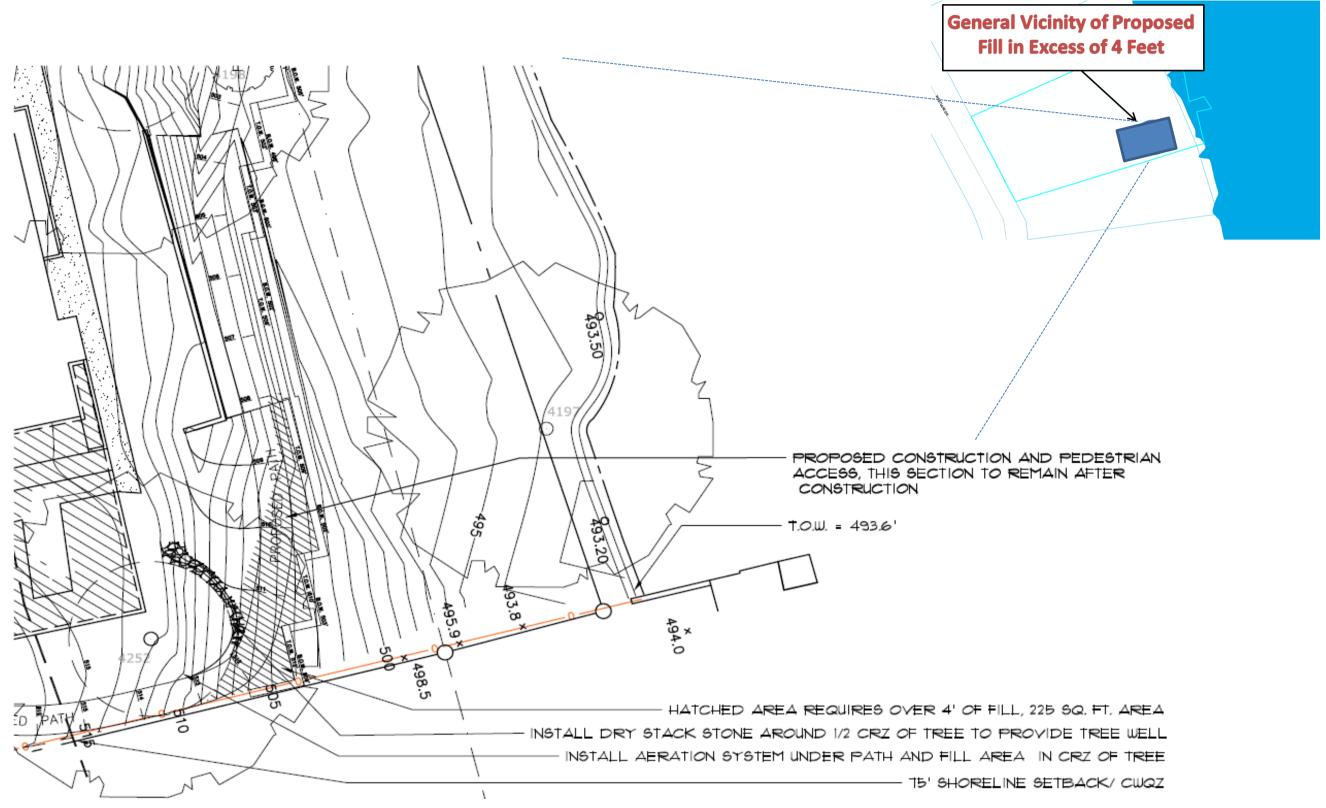


Exhibit 6 - Proposed Fill Greater than 4 Feet Map





Exhibit 7 - Site Photographs

Mayes Residence 3715 Westlake Drive SP-2014-0182D

Site Photos



## Mayes Residence 3715 Westlake Drive SP-2014-0182D

Site Photos



## Mayes Residence 3715 Westlake Drive SP-2014-0182D

Site Photos