

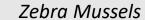
LAKE AUSTIN - Finding the Balance

Drinking Water

- Residential
- Commercial
- Boating/Marina
- Parkland
- Fishing
- Passive Recreation



Environmental Issues

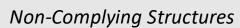




Bank Erosion



Poor Shoreline Habitat

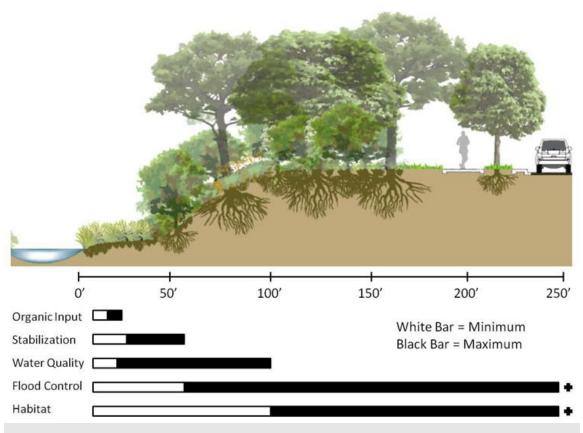




Compliance/Work Without Permits



Riparian Zone Functions



A robust shoreline vegetative community improves water quality, prevents erosion, and aids in flood control.





Trees & deep-rooted plants prevent erosion.



Dense shoreline development degrades shoreline health.

Poor Riparian Function VS Good Riparian Function









Costs of Degraded Water Quality

- Water treatment costs due to suspended sediment
- Algae proliferations
- Poor fishery
- Lowered Austin Lake Index scores in
 - Habitat
 - Invertebrates
 - Vegetation





Environmental Review

- Site plan & Subdivision compliance with LDC 25-8 Subchapter A
- Boat docks/shoreline modifications/shoreline access require site plans
- DSD environmental review staff
 - CWQZ compliance
 - Erosion controls
 - Restoration
 - Cut/Fill
- WPD environmental review staff
 - CEF setbacks
 - Bulkheads
 - Dredging
 - Land capture/fill in the lake
 - Floodplain modifications & restoration (riparian functioning)

§ 25-8-261 Critical Water Quality Zone

CWQZ on all Lakes:

- 75' from shoreline (492.8 msl) for single family
- 100' for all other uses

(1) A dock, bulkhead or marina, and <u>necessary access and</u> <u>appurtenances</u>, are permitted in a critical water quality zone subject to compliance with <u>Chapter 25-2</u>, Subchapter C, Article 12 (*Docks, Bulkheads, and Shoreline Access*)



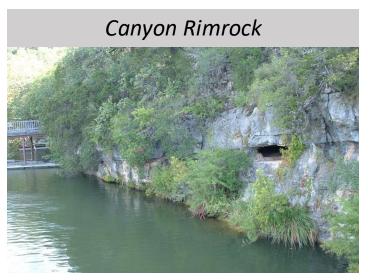






§ 25-8-281(C) Critical Environmental Features



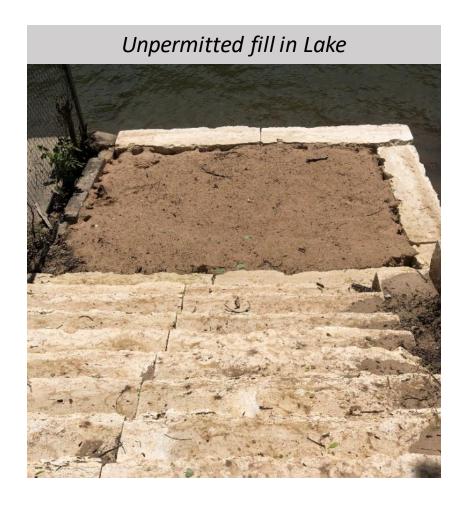








§ 25-8-652 – Restrictions on Development Impacting Lakes



- (A) The requirements of this section apply to development on or adjacent to Lake Austin, Lady Bird Lake, or Lake Walter E. Long.
- (B) Except as otherwise provided by this section, placing fill or dredging in a lake is prohibited.
- (C) A retaining wall, bulkhead, or other erosion protection device may not capture or recapture land from a lake unless doing so is required to restore the shoreline to whichever of the following boundaries would encroach the least into the lake:
- (1) the shoreline as it existed 10 years prior to the date of application, with documentation as prescribed by the Environmental Criteria Manual; or
 - (2) the lakeside boundary of the subdivided lot line.
- (D) A bulkhead may be replaced in front of an existing bulkhead once, if:
 - (1) the existing bulkhead was legally constructed; and
- (2) construction of the replacement bulkhead does not change the location of the shoreline by more than 6 inches; and
- (3) the director of the Watershed Protection Department determines that there is no reasonable alternative to replacement of the bulkhead in the location of the existing bulkhead.
- (E) The director may approve less than 25 cubic yards of dredging in a lake if the dredging is necessary for navigation safety.

Land Use Commission Variances § 25-8

Land Use Commission Variance Findings (paraphrase of 25-8-41)

- Requirement will deprive the applicant of a privilege given to owners of other similarly situated properties with approx. contemporaneous development;
- Variance is not necessitated by scale, layout, construction method, or other design decision made by the applicant, unless the design provides greater environmental protection;
- Minimum deviation necessary to allow a reasonable use of the property;
- No significant probability of harmful environmental consequences;
- No harm to water quality.
- Additional findings for Critical Water Quality Zone variances:
 - Requirement prevents a reasonable, economic use of the entire property;
 - Minimum deviation necessary to allow a reasonable, economic use of the entire property.

Board of Adjustment Variance Findings (paraphrase of 25-2-474)

- Requirement does not allow for a reasonable use;
- Hardship is unique/not characteristic of the area;
- Development does not
 - Alter character of area,
 - Impair use of adjacent property,
 - Impair the purpose of the regulation;

Situations Involving Both EV Commission and BoA

Tram in Setback or Slopes /Rimrocks



Construction in a CEF buffer Versus Mechanized access on slopes greater than 35% or in LA shoreline setback

- EV Commission reviews impact of construction on CEF
- BoA can review for broader impacts to the LA zoning district

Dock Extension/Dredging



Dredging greater than 25 cy Versus Extending the dock greater than 30'

- EV Commission reviews impact of dredging on water quality
- BoA reviews hardship, reasonable use, and area character of dock extension (navigation safety)

Questions?

