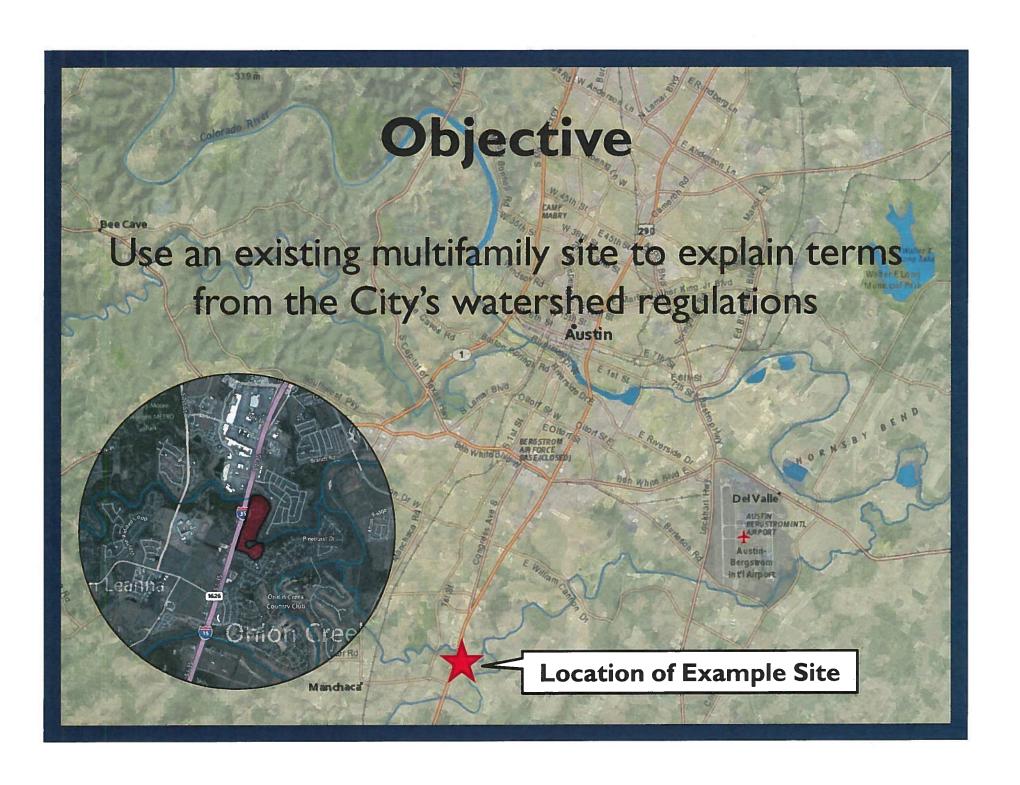
## COA LDC 25-8 EB FAQ: **Defining Common Terms & Acronyms**

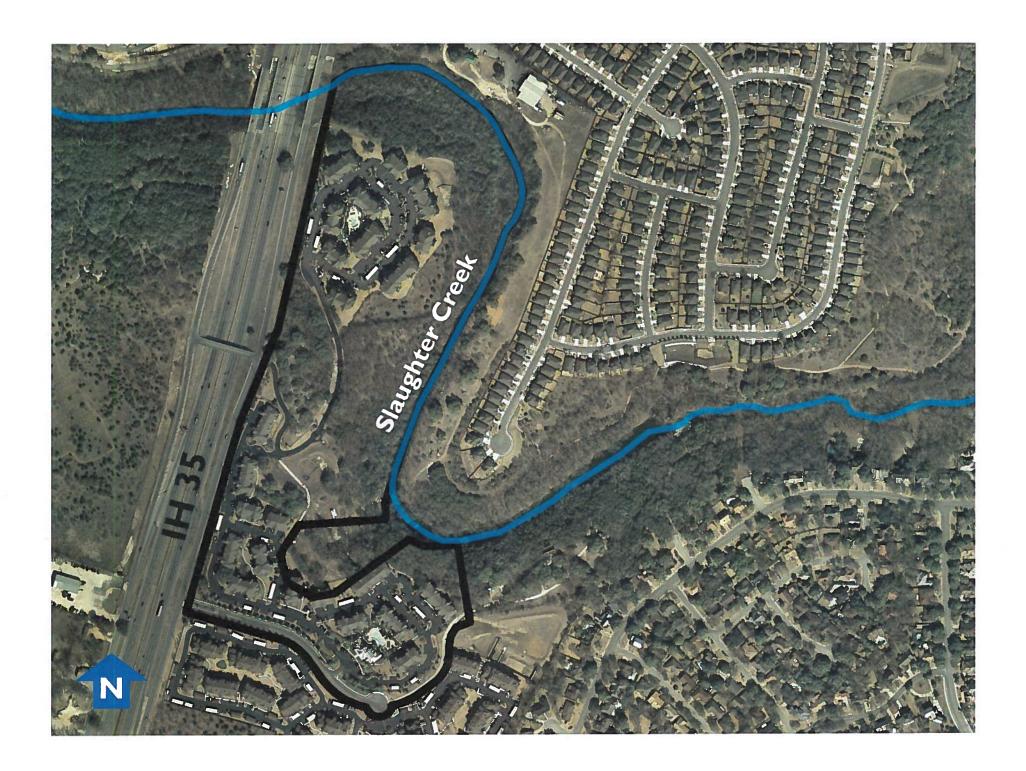
Critical Water Quality Zone Deal Critical Water Quality Zone Deal Critical Water Quality Zone



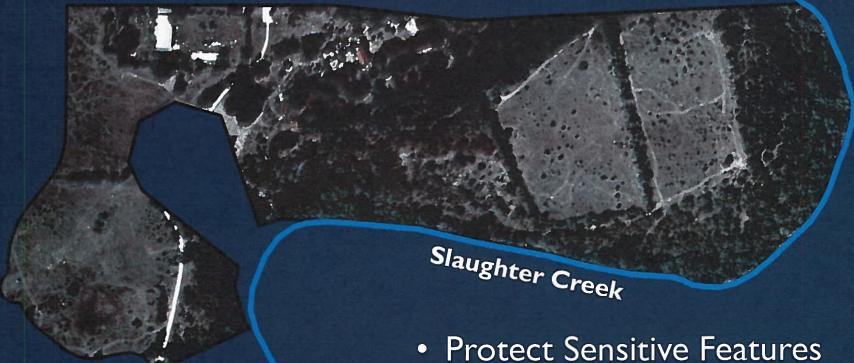
\$ 25-8-261

**Environmental Board Retreat** August 1, 2012









- Minimize Site Disturbance
- Manage Stormwater Runoff





IH 35



## Floodplain

- The floodplain boundary helps determine the width of the creek buffers
- Floodplain modification must—among other things—preserve the natural and traditional character of the land and waterway
- City of Austin vs. FEMA Floodplain
  - The COA floodplain is modeled assuming full build-out of the contributing area (instead of using existing development conditions)

## **Creek Buffers**

IH 35



#### **Creek Buffers**

- Buffer width varies with floodplain, drainage area, and watershed classification
- Critical Water Quality Zone (CWQZ)
  - Development prohibited except for fences, limited park uses, utility crossings, detention ponds, floodplain modification, and certain road crossings
- Water Quality Transition Zone (WQTZ)
  - Limited impervious cover/density allowed outside of the floodplain based on watershed classification

# Steep Slopes

**IH 35** 





15 to 25%

25 to 35%

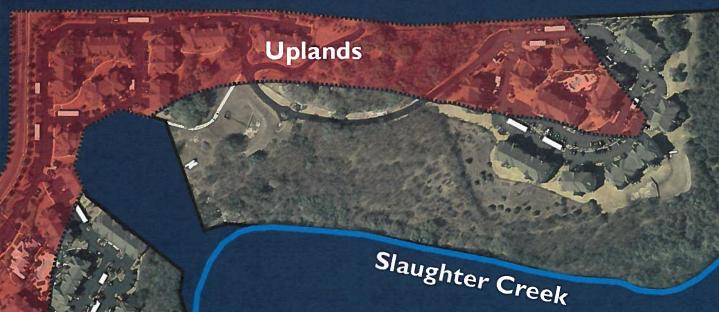
Greater than 35%

## Steep Slopes

- Steep slopes help determine the net site area
- For slopes greater than 15 percent:
  - Construction of parking areas is not allowed
  - Construction of roadways and driveways is only allowed for primary access in certain cases
  - Construction of a building or parking structure is limited by scope and requires restoration
- For slopes greater than 25 percent:
  - Construction of a building or parking structure is not allowed

#### **Net Site Area**

**IH 35** 



Net Site Area (NSA) changes the denominator for impervious cover

#### **Net Site Area**

APPENDIX Q-1

**NET SITE AREA** 

Gross Site Area (GSA)
minus
Creek Buffers
Wastewater Irrigation

and Portion of Steep Slopes

= Net Site Area (NSA)



**IH 35** 

60% in Uplands (NSA)

30% in WQTZ

0% in CWQZ Slaughter Creek



## **Impervious Cover**

- Impervious cover limits vary by land use and watershed classification
- Impervious cover calculations exclude certain features, such as sidewalks in public ROW, water quality controls, and pools
- Zoning also regulates impervious cover the more restrictive limit governs

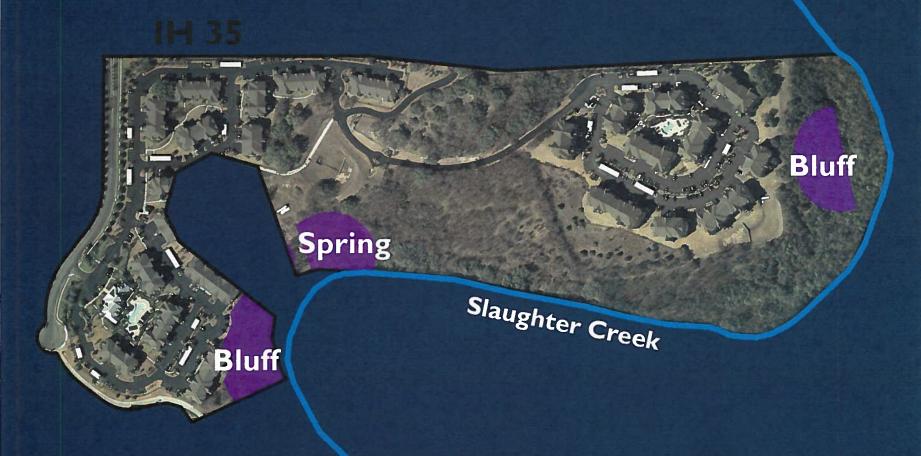
# Watershed Protection Ordinance Impact Analysis

Evaluate effect of proposed ordinance on:

- Creek buffer geometry
- Developable area
- Allowable impervious cover

[still being completed – will distribute at meeting]

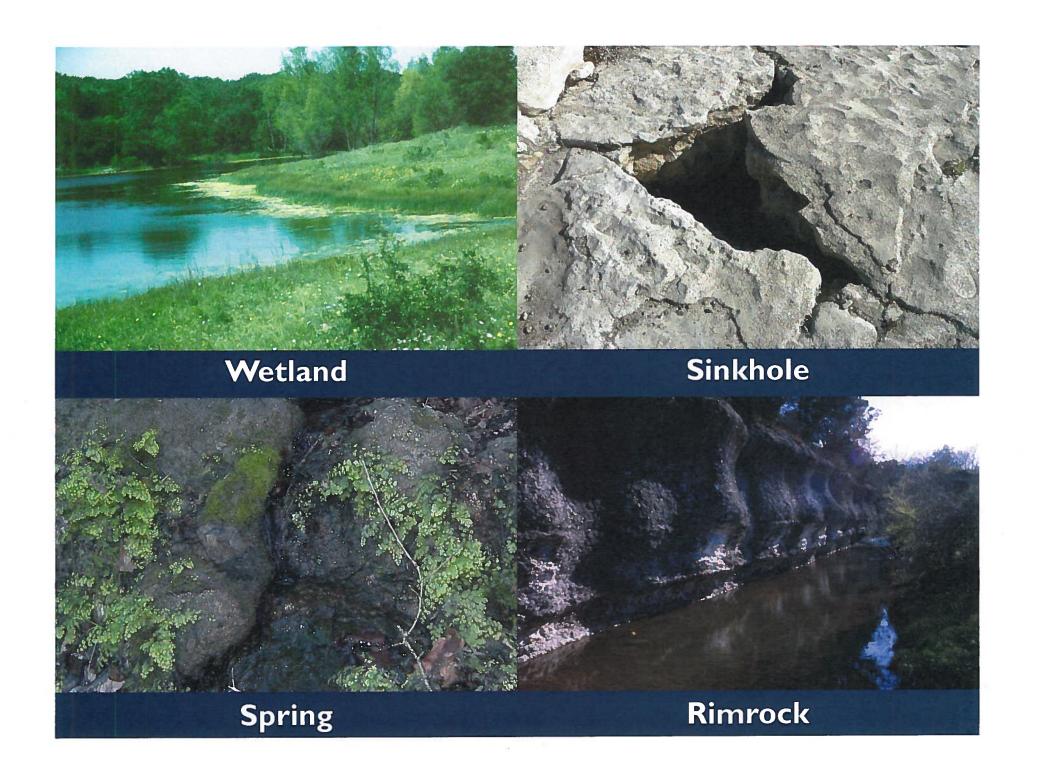
### Critical Environmental Features





#### Critical Environmental Features

- CEFs include bluffs, canyon rimrocks, caves, sinkholes, springs, and wetlands
- Setbacks for CEFs range from 150 to 300 feet construction is prohibited, but hiking trails and yards are allowed within 50 feet
- Wetland setbacks can be reduced or eliminated using appropriate mitigation



#### **Tree Protection**

IH 35



Note: Tree regulations only apply within the zoning jurisdiction



#### **Tree Protection**

- Protected Trees
  - Trees over 19 inches in diameter require an administrative permit for removal
- Heritage Trees
  - Trees of certain species over 24 inches may not be removed without an administrative variance
  - Trees over 30 inches require a Commission variance
- Mitigation Required
  - Removal of trees over 8 inches (commercial) or
     19 inches (single-family residential)
  - Not required for non-native, invasive trees

## **Cut and Fill Limits**

IH 35



#### **Cut and Fill Limits**

- Cut and fill may not exceed 4 feet except for:
  - Within Urban Watersheds
  - Administrative variance of up to 8 feet in Suburban Watersheds
  - Administrative variance for stormwater ponds
  - Within roadway ROW
  - Construction of a building foundation
  - Utility construction or wastewater drainfield
  - Sanitary landfills and sand/gravel excavation in the extra-territorial jurisdiction (with limitations)

#### **Erosion & Sedimentation Controls**

IH 35



Slaughter Creek

#### **Erosion & Sedimentation Controls**

- Also known as construction-phase controls
- Temporary controls are required for all development until permanent revegetation has been established
- Best management practices (BMPs) include:
  - Mulching, silt fencing, rock berms, sediment basins,
     inlet protection, & stabilized construction entrances



# Structural Stormwater Controls (a.k.a. "Ponds")

**IH 35** 

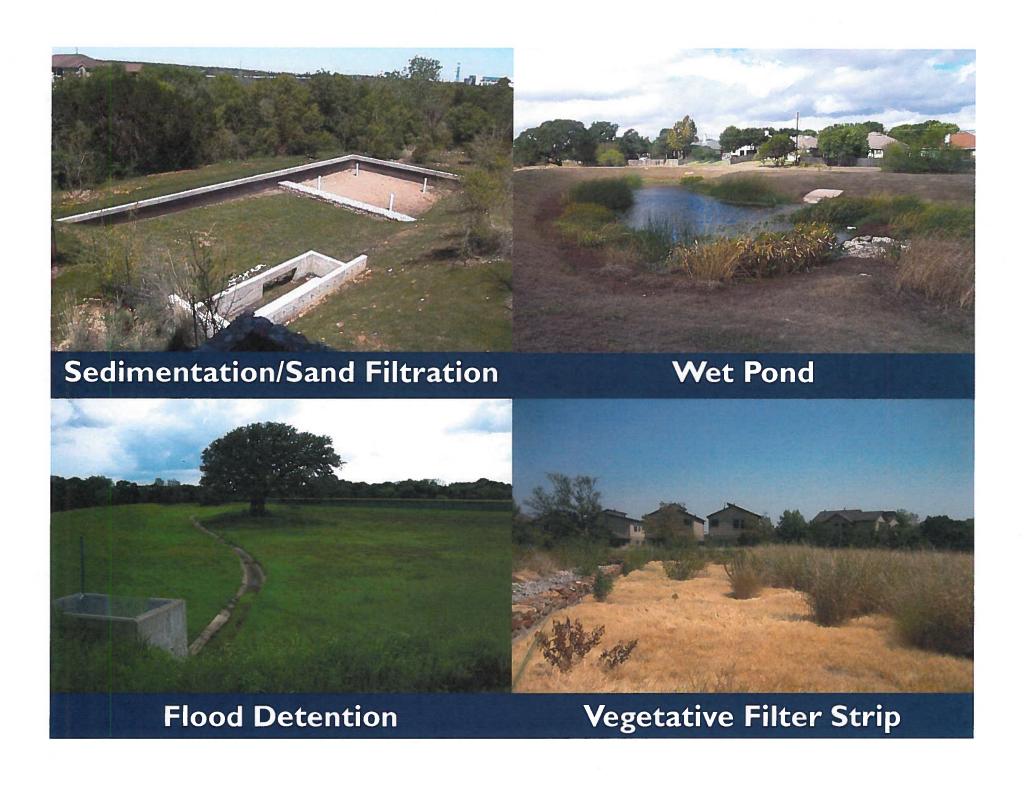


Note: This project participated in the Regional Stormwater Management Program (RSMP) in lieu of providing on-site flood detention



#### Structural Stormwater Controls

- Water Quality Control
  - Capture a required volume (1/2" plus) for the site
     and treat to a sedimentation/filtration standard
  - Non-degradation for the Barton Springs Zone
- Flood Mitigation
  - Match peak flow rates to predevelopment for the
     2, 10, 25, and 100-year storms
- Erosion Control
  - On-site control of the 2-year storm
  - Note: WQ ponds also help with erosion control





## Common Acronym Guide

BMP = Best Management Practice

BSZ = Barton Springs Zone

CCN = Certificate of Convenience & Necessity

CEF = Critical Environmental Feature

COA = City of Austin

CRZ = Critical Root Zone

CWO = Comprehensive Watershed Ordinance

CWQZ = Critical Water Quality Zone

DCM = Drainage Criteria Manual

DDZ = Desired Development Zone

DWPZ = Drinking Water Protection Zone

E&S = Erosion and Sedimentation

EA = Environmental Assessment

EARZ = Edwards Aquifer Recharge Zone

ECM = Environmental Criteria Manual

EHZ = Erosion Hazard Zone

Ell = Environmental Integrity Index

ERM = Environmental Resource Management

ET | = Extra-Territorial Jurisdiction

FP = Floodplain

GSA = Gross Site Area

IC = Impervious Cover

LDC = Land Development Code

LOC = Limits of Construction

LUR = Land Use Review

NSA = Net Site Area

PAP = Pollutant Attenuation Plan

PC = Planning Commission

PDRD = Planning and Development Review

PUD = Planned Unit Development

ROW = Right-of-Way

RSMP = Regional Stormwater Management Program

SER = Service Extension Request

SOS = Save Our Springs Ordinance

TIF = Tax Increment Financing

VFS = Vegetative Filter Strip

WPD = Watershed Protection Department

WQ = Water Quality

WQTZ = Water Quality Transition Zone

ZAP = Zoning and Platting Commission