

# **Presentation to the Stakeholder Committee on Draft #1 of the Regional Water Quality Protection Plan**

**Development of a Regional Water Quality Protection  
Plan for the Barton Springs Segment of the Edwards  
Aquifer and its Contributing Zone**

Oak Hill United Methodist Church  
November 17, 2004

# Background/Goals Objectives

## ➤ Background

- No comments received
- Minor Expansion anticipated

### • History

### • Definition of the Planning Region

- Add Blanco County Entities

### • Entities Involved

### • Description of the Stakeholder Process

## ➤ Goals and Objectives for the Plan

- Revisions based on Adopted Goals and Objectives
- Add Guiding Principals

# What does the Regional Plan Protect?

- Hydrology
  - Minor Expansion anticipated
- Definition of Critical Parameters (CPs)
  - Anticipated suspended solids, nutrients, biological constituents & toxic constituents
- Scientific Basis for CPs
  - Narrative with listing in Attachment 5
- Definition-Monitoring & Assessment CPs
  - Narrative of how CPs used in Implementation

# Water Quality Threats

## ➤ General Comments

- Vulnerability Analysis for different types of development
  - Minor Expansion anticipated

## ➤ Land Development

## ➤ Point Source Discharges

- Minor Expansion anticipated

## ➤ Storm Water/Non-Point Source Pollution

- Minor Expansion anticipated

## Water Quality Threats (Continued)

- Wastewater Collection, Treatment and Disposal
  - Avoid bias toward centralized systems
  - Consider as a resource, avoid “disposal”
  - Consider “community” on-site concepts
    - Significant expansion anticipated
- Use, Storage and Disposal of Harmful Materials
- Improper Management of Undeveloped Land

# Existing Regulatory Programs

- Discuss construction phase requirements
- Consider additional requirements for construction similar to City of Austin
  - Address deficiencies in existing programs

# Open Space Preservation (OSP)

- Funding strategies and financial aspects – avoid funding with development fees
- Opposed to mitigation
  - More detail on protection of critical environmental features (e.g. activities)

# Location of Development

- No development/BMPs in Buffer Zones (BZs)
- Increased offsets for Critical Environmental Features (CEFs) & BZs
- No filling/plugging CEFs
- No construction on slopes  $> 15\%$
- Clustering emphasized—separate IC from BZ/CEFs



## Density of Development

- Steep slopes/BMPs considered impervious cover (IC) for net site area (NSA) calcs.
- Reductions in proposed IC Limits
  - No Mitigation
  - No differences for jurisdiction
  - RZ to 10%
  - CZ to 10-15%
- Add restrictions for # dwelling units/acre
  - Anticipate significant expansion

# Control of Hydrologic Regime

- 1 yr, 3 hr retained for 24 hrs instead of 2 yr, 3 hr
- Limit post-development flow to pre-development
  - Address comments on flow control/erosive discharges

## Structural BMPs

- Recommend specific BMPs for use in the Planning Region
- List of “Worst Management Practices” to be avoided
  - Address rationale for selection of BMPs (no net increase in pollutants), recommended BMPs, and criteria for alternatives

# Nature of Development

## ➤ Residential

- Realistic estimates of IC for residential
- Address lot size, units/acre

## ➤ Commercial

- Allowable activities
- support features

## ➤ Industrial

- Restricted zones
- Protective measures

# Use Restrictions/Public Education

## ➤ Use Restrictions

- Address specific land uses, restriction by zoning
- Restrictions on Use, Storage and Disposal of Potentially Harmful Materials
  - Address wastes, hazardous materials, pesticides, and nutrients, with emphasis on integrated mgmt.

## ➤ Public Education

- Expand using EPA Phase II Storm water Minimum Control Measure

# Alternative Water Sources/Uses & Management of Undeveloped Land

- Alternative Water Sources & Uses
  - Replacement of consumptive uses
    - rainwater harvesting-potable & irrigation
    - water conservation
    - wastewater reuse
- Management of Undeveloped Land
  - Address other agricultural practices

# Parameters to be Used to Measure and Monitor Water Quality within the Planning Region

- Goal – No net increase in pollutant loadings
- Tied to CPs previously identified
  - Anticipated significant expansion

# Implementation

## ➤ Entities Responsible for Implementation

- Measures (previously described) recommended for adoption by local governments
- Measures (previously described) which require new/expanded authority
- Measures (previously described) recommended for voluntary implementation

## ➤ Mechanisms

## ➤ Schedule



# Economic Implications

- Initial Implementation
- On-going Operations and Maintenance
- Enforcement and Oversight
- Impacts of failure and/or inadequacy
- Land value
- Cost of public facilities to serve development

# Comments by Stakeholder Category

- Neighborhood Interests
- Economic interests
- Governmental Entities
- Development Interests
- Concerned Citizens
- Public Interest Organizations
- Environmental Preservation/ Local Interest groups
- Property Owners

Order selected by lottery

# Questions/Comments on the Draft Plan



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