

City Council Briefing

February 5, 2004



Administrative Approvals for Wastewater Infrastructure in the Weston Study Area

Austin Water Utility
and

Watershed Protection and Development Review Department

Council Resolution No. 031211-53

On December 11, 2003 Council directed the City Manager to present recommendations within 60 days regarding administrative approvals for wastewater infrastructure in the critical water quality zone of the Weston Study Area.



Weston Study Objective

The overall objective of the Northeast Service Area Wastewater Master Plan was to develop a long-term plan for providing wastewater service to the planning area.



Weston Study Planning Area

- The Planning Area Boundary Includes:
 - The Harris Branch and Gilleland Creek watersheds and portions of the Wilbarger and Decker Creek watersheds
 - All of the land contained in the City of Austin's 2-mile ETJ and portions of the 5-mile ETJ
 - An area encompassing approximately 45,500 acres



Scope of Weston Study

- Data Collection and Review
- Wastewater Flow Development for the years 2005, 2010, 2020, 2030 and 2040 based on two different growth scenarios
- Model Development and Analysis including phasing and cost estimates for collection system facilities



Scope of Weston Study (cont.)

- Wastewater Treatment Plant Evaluation including:

- Alternative site selection
- Treatment process options
- Preliminary site layouts
- Plant phasing
- Cost estimates

Weston Study Recommendations

- Completed in November 2000
- Recommended a new Northeast Regional Wastewater Treatment Plant and wastewater collection system
- Proposed two alternative collector alignments:
 - Inside the Critical Water Quality Zone
 - Outside the Critical Water Quality Zone
- Projected significant cost savings if lines could be constructed in the Critical Water Quality Zone

Weston Study

Implementation Considerations

- Development in the Desired Development Zone is limited by a lack of wastewater infrastructure
- Many areas along the waterways within the Northeast Service Area have been disturbed by agricultural uses
- The Weston Study projected a \$12M cost savings if wastewater lines could be constructed in the Critical Water Quality Zone
- An environmental variance request requires a large engineering investment with an uncertain result



Shared Community Goals

■ **Reduce Permit Process Time and Cost**

- Reduced time for approval and permitting of wastewater infrastructure in the Desired Development Zone

■ **Reduce Construction and Maintenance Costs**

- Reduced cost to construct wastewater infrastructure in the Desired Development Zone
- Reduced future maintenance costs for drainage and wastewater infrastructure

■ **Promote creek restoration and public access**

New Information

- Watershed Protection Master Plan (June 2001)
- Channel widening is a major concern
- Protection of channel integrity and prevention of property damage resulting from erosion





Objective

- To determine the best way to reduce the time and expense for permitting, construction and maintenance of wastewater infrastructure in the Desired Development Zone, while
 - Minimizing the future risk to the City's wastewater and drainage infrastructure
 - Providing opportunities for restoration and public access
 - Minimizing long-term operation and maintenance costs


Recommendations

• Administrative variances

- Administrative approval of wastewater lines in the Desired Development Zone under certain conditions

• Streamlined variance process

- Current variance consideration process without requiring a complete site plan application in the Desired Development Zone under certain conditions

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Critical Water Quality Zone Variance Scenarios

Scenario 1

- Wastewater line proposed within agricultural area outside of the predicted erosion hazard zone

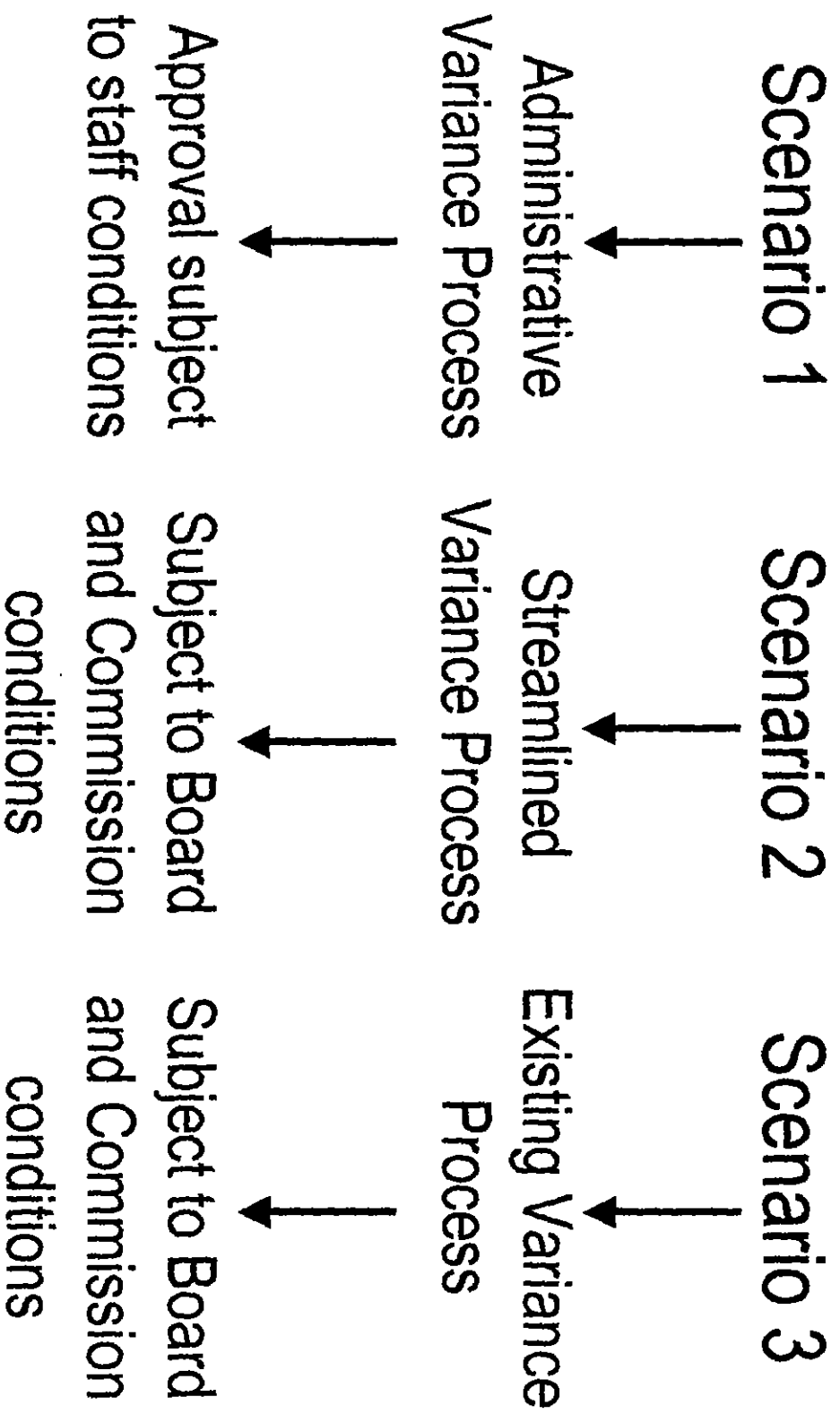
Scenario 2

- Wastewater line proposed within transitional area outside of predicted erosion hazard zone

Scenario 3

- Wastewater line proposed within a riparian woodland area and/or within the predicted erosion hazard zone

Apply Variance Process Specific to Project Conditions



Variance Mitigation Considerations

- The lines should be located outside of the predicted "Erosion Hazard Zone"
- The project should provide for native revegetation and reforestation of easement area
- The project should provide opportunities for a permanent undisturbed state and public access

Benefits – Reduce Construction and Maintenance Costs

- **The ability to locate lines closer to creeks will significantly reduce construction costs**
- **Erosion setbacks will significantly reduce future infrastructure maintenance costs**



Benefits – Promote Creek Reforestation and public access

- **Variance conditions will serve to restore previously disturbed riparian areas**
- **Opportunities will be provided for public access to creek corridors**

Draft Code Amendment Schedule

- # February 6-20 Interdepartmental review and
- # February 23-27 Drafting of Code Amendments
- # March 3 Environmental Board
- # March 3-16 Planning Commission Codes and Ordinances Subcommittee
- # March 16 Zoning and Platting Commission
- # March 23 Planning Commission
- # March 25 City Council 1st Reading
- # April 1 City Council 2nd/3rd Reading