

# Mid Pecan Bayou

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## Recreational Use Attainability Analysis

February 22, 2011

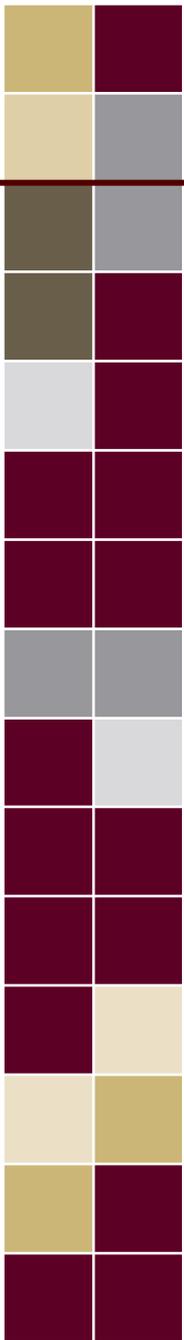
Brownwood, TX

# Purpose

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## **Use Attainability Analysis (UAA)**

- Assess the physical, chemical, biological, and economical factors affecting the use of a waterbody.
- Identify and recommend attainable uses and criteria to a waterbody based on its unique characteristics.





# RUAA Components

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## Sampling Conditions

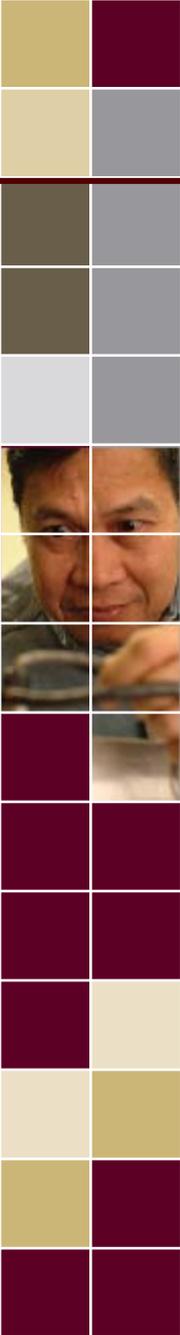
### Base flow Conditions

1. Sustained typical dry warm-weather flow
2. Between rainfall events

### Periods of Likely Use (March – October)

Air temperature >70 F

1. Spring Break
2. Weekends
3. Holidays
4. Summer



# RUAA Components

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## Stream Surveys

- Measure the width and depth
- Measure stream flow
- Condition of the riparian area
- Ease of bank access
- 3 sites per 5 miles
- 2 surveys per site

## Photographic Record

- Upstream and Downstream
- Left and right bank
- Evidence of observed uses
- Indications of human use
- Hydrologic modifications

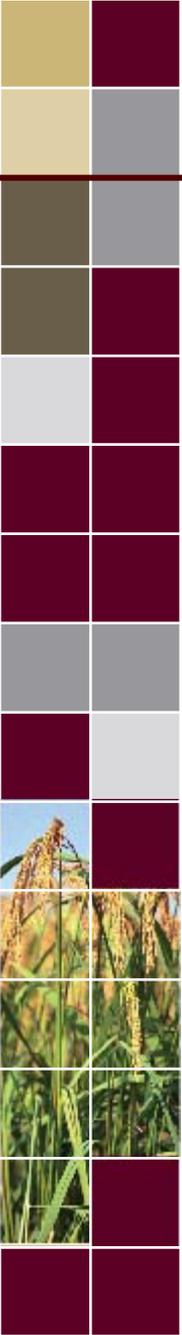
# Photograph Examples



**Recreational Use**



**Rope Swing**



# RUAA Components

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## Historical Information

- November 28, 1975 – Present
- Photographic evidence
- Museum Collections
- Publications – water quality data, flooding, uses, etc.
- Historical Society Records
- Long term Landowner knowledge

## Interviews

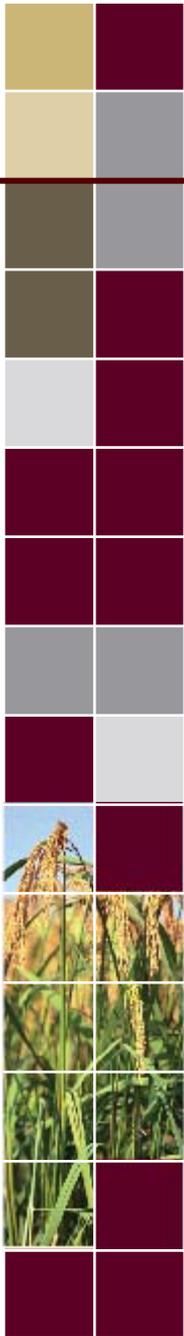
- During the field survey: information on existing and historical uses and stream type
- Streamside landowners
- Local residents
- Users Present

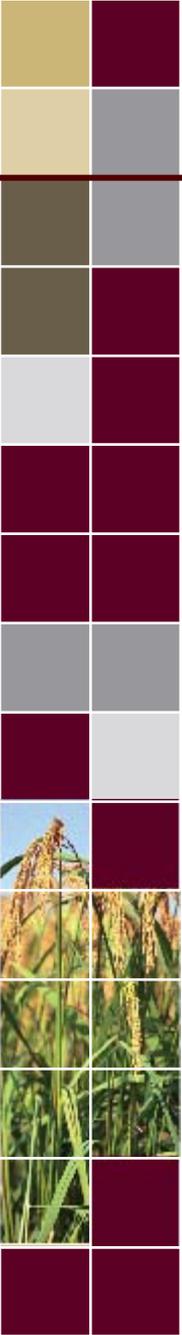
# RUAA Components

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## Bacteria Source Survey

- Watershed source survey characterizes the possible sources of bacteria loadings
- Will identify locations of possible bacteria sources
- Survey will represent warm and cool seasons and low and high flow conditions



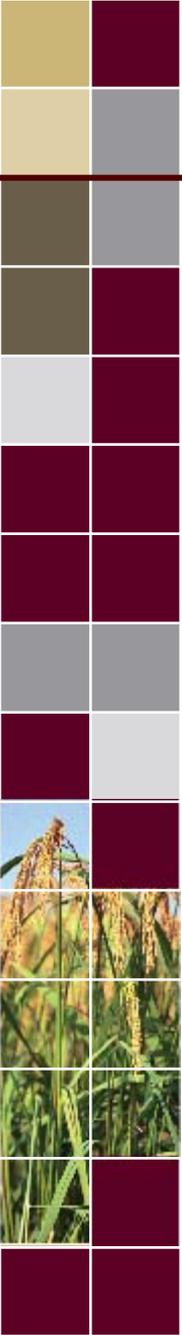


# Mid Pecan Bayou RUAA

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## Goals and Objectives

- To facilitate public participation and coordinating stakeholder involvement in decision-making
- To collect information on factors affecting attainment of recreational use



# Mid Pecan Bayou RUAA

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## Project Team

- Texas State Soil and Water Conservation Board (TSSWCB)
- Texas AgriLife Research - Stephenville (AgriLife Research)
- Texas Institute for Applied Environmental Research (TIAER)

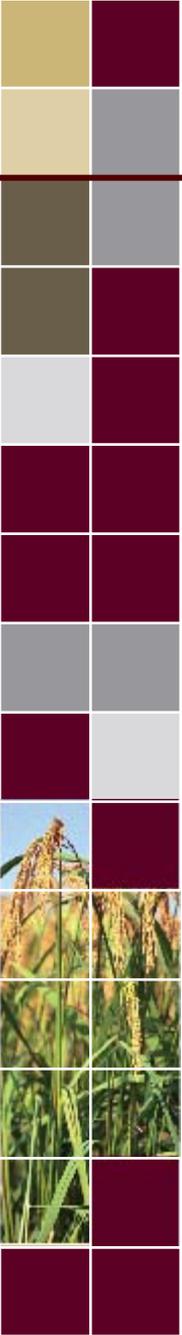


# Mid Pecan Bayou RUAA

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## Project Team

- Texas State Soil and Water Conservation Board
  - Project Oversight
  - Management of all project activities
  - Ensure coordination of activities
  - Provide funding to conduct project
    - ~\$121,000
  - Provide the Texas Commission on Environmental Quality (TCEQ) information about project activities

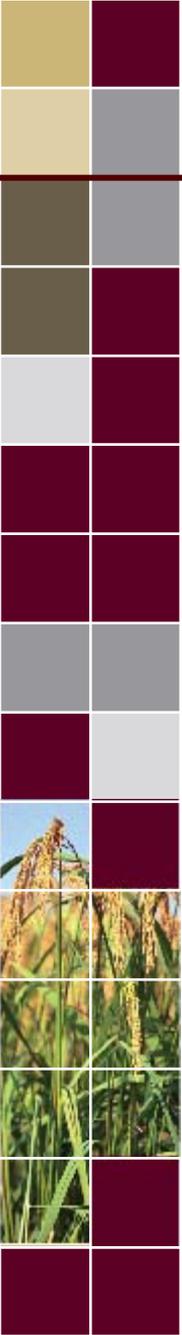


# Mid Pecan Bayou RUAA

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## Project Team

- Texas AgriLife Research
  - Facilitate public participation and stakeholder coordination
- Texas Institute for Applied Environmental Research
  - Field surveys and bacteria source survey



# Mid Pecan Bayou RUAA

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## Time Frame and Milestones

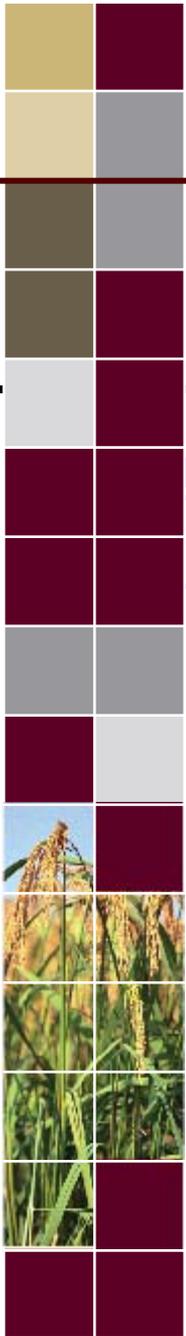
- August 2010
  - Project start date, Contracts initiated
- February 2011 – January 2012
  - Public Meeting- February 22, 2011
  - Sanitary Survey Design Meeting
  - Field Surveys
  - Bacteria Source Survey
  - Public Meeting to Update on Progress

# Mid Pecan Bayou RUAA

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## ct Website

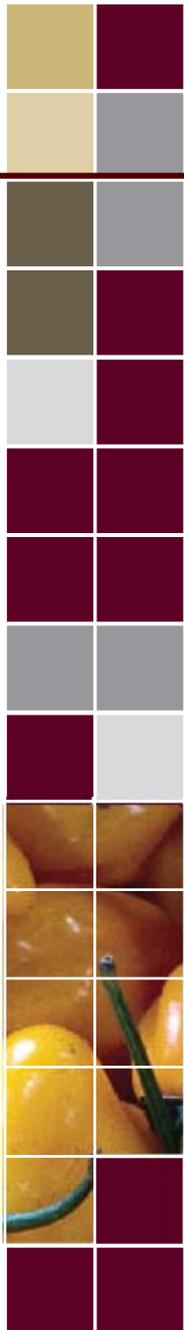
<http://www.tsswcb.state.tx.us/managementprogram/mpbruaa>



# Project Funding

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**Provided through a State General Revenue Nonpoint Source grant from Texas State Soil and Water Conservation Board.**



# Comments

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