Project 1

North Concho River Urban Runoff Non-Point Source Abatement Master Plan / Civic League Park Project

Civic League
Park Gabion

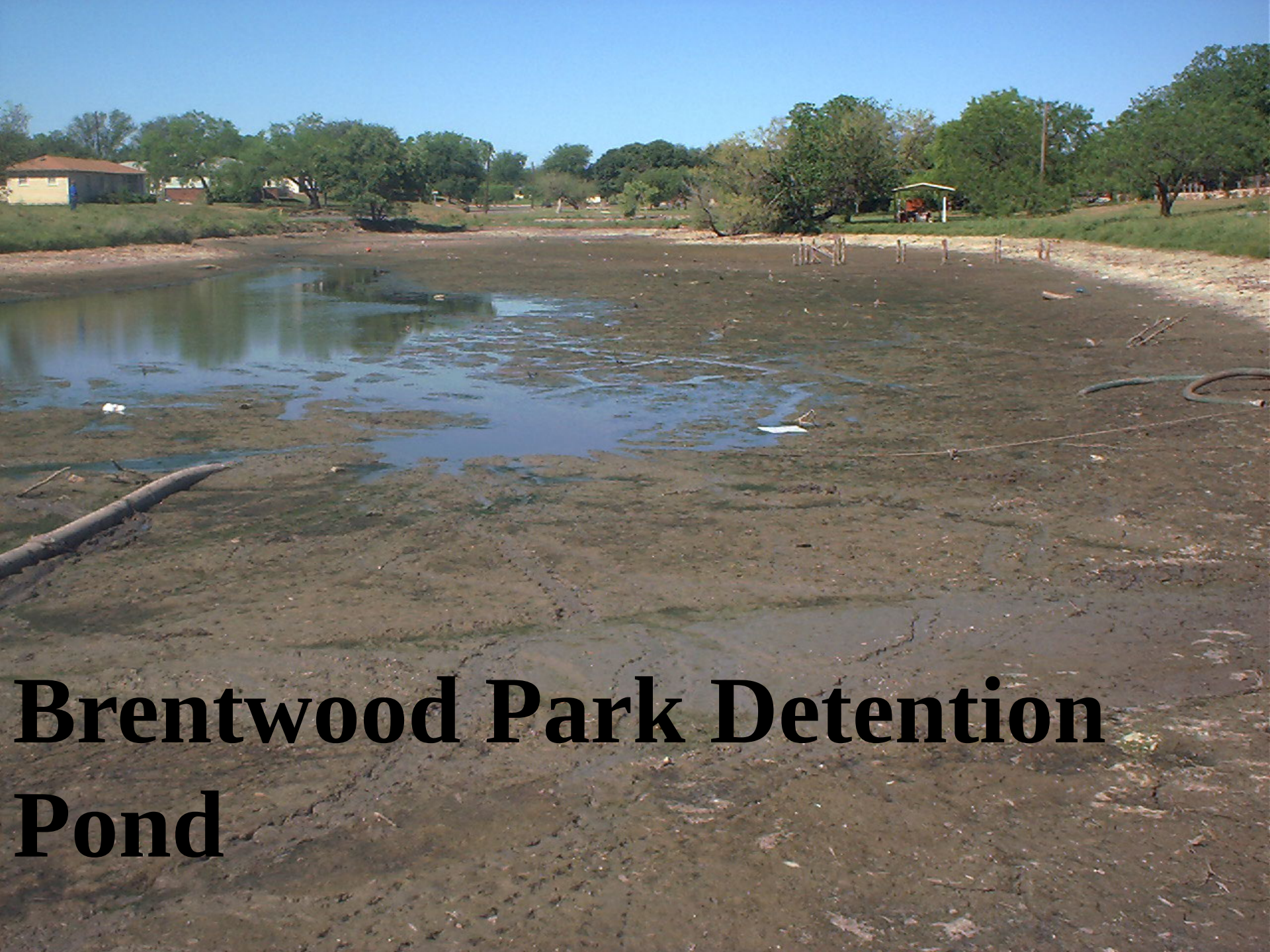
Photo by: Tim L. Vasquez

Project 2

Santa Rita Gabion

Brentwood Park Detention Pond

FEB 28 2005


Brentwood Park Detention
Pond

DC150
NEW HOLLAND

INFLOW

DISCHARGE

Project 3

11th Street Detention Pond

67
277
67

The Downtown San Angelo Project
MAR 16 2006

MUSEUM
NORTH CONCHO RIVER
RIVER STAGE
S. CHADBOURNE

938F
CAT

INFLUENT

https://youtu.be/VWGCWrq_V7Q

North Concho River Downtown Water Quality Improvements &
El Paseo de Santa Angela Link to Celebration Bridge Project

Completed September 2007

Sponsored by the
City of San Angelo and the Upper Colorado River Authority
with funding provided by:

Environmental Protection Agency
Texas Commission on Environmental Quality
San Angelo Development Corporation – Half Cent Sales Tax Funding
Mayme Daniel River Contribution Funds
Upper Colorado River Authority
San Angelo Health Foundation
City of San Angelo

San Angelo City Council:
J.W. Lown – Mayor
Jamie Rainey – SMD 1
Dwain Morrison – SMD 2
Joe Holguin – SMD 3
Emilio Perez-Jimenez – SMD 4
Devin Bates – SMD 5
Charlotte Farmer – SMD 6

UCRA Board of Directors:
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Fred Campbell – Concho County
Dorris Sonnenberg – Coke County
John Nikolauk – Schleicher County
William Hood – Coke County

Special Recognition to: River Corridor Commission, Park Commission,
AEP, San Angelo Museum of Fine Arts & Consolidated Contractors

Staff & Consultants:

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Rick Weise – Asst. City Manager
Carl White – Parks & Recreation Dir.
Shane Kelton – Asst. Operations Dir.
Stephen Brown – UCRA Mgmt. Consultant
Fred Teagarden – Senior Hydrologist

Chuck Brown – Staff Hydrologist
Scott McWilliams – Hydrogeologist
Ellen Groth – Office Manager
Design Team – Kinney Architects
Craig Kinney & Kye Franke
SKG Engineering
McClanahan Engineering

Lewisville Aquatic Ecosystem Research Facility

Native Aquatic Plant Installation

The role of plants in aquatic systems is significant:

- Aquatic plants provide valuable fish and wildlife
- Sequester excess nutrients
- Contaminant removal by epiphytic communities
- Limits the amount of non-point source pollution entering protected or threatened watersheds

wild celery

Illinois pondweed

water stargrass

American pondweed

white water lily

tall burhead

soft-stem bulrush

bulltongue

pickerelweed

American bulrush

arrowhead

water willow

Texas Parks and Wildlife Inland Fisheries

Thomas, Bonner, and Whiteside 2007

Thomas, Bonner, and Whiteside 2007

Photo by Chad Thomas, Texas State University - San Marcos

Thomas, Bonner, and Whiteside 2007

Thomas, Bonner, and Whiteside 2007

Thomas, Bonner, and Whiteside 2007

Thomas, Bonner, and Whiteside 2007

Thomas, Bonner, and Whiteside 2007

ASK ME
ABOUT MY

Helping Our River

Illustrated here are some of the common fish and aquatic plants found in these ponds

Arrowhead

Tall Burhead

Mosquito Fish (Gambusia affinis)

Bluegill (Lepomis macrochirus)

Pickerelweed

Warmouth (Lepomis gularis)

Channel Catfish (Ictalurus punctatus)

White Water Lily

Did you know?

The ponds and waterfalls you are looking at serve as a storm water treatment system as well as an educational ecosystem.

These ponds are part of the system installed here that cleans the water before it gets into our river.

Water that flows across streets and parking lots picks up debris and pollutants harmful to our river and drinking water. The debris and pollutants are called non-point source pollution.

How does it work?

When it rains, water runs downhill from the streets into a vortex separator (Aqua-Swirl™). It is a large underground cylinder that swirls the water rapidly. Trash and debris rise to the top and sediment settles to the bottom. The cleanest water is then discharged to the filters and pumped up to the ponds where it is aerated by the waterfalls. Excess nutrients in the water such as nitrogen and phosphorus are removed by the aquatic plants. Any excess water is cleaned and discharged to the river.

To learn even more about this system visit the Water Education Center at 417 South Oakes Street. It is the yellow building visible to the east of these ponds.

Stormwater Filtration System

Aqua-Swirl™

Water Education Center
UPPER COLORADO RIVER AUTHORITY

This project is supported by a grant through the Texas Commission on Environmental Quality and the Environmental Protection Agency and implemented by the Upper Colorado River Authority and the City of San Angelo.

Storm Water Treatment System