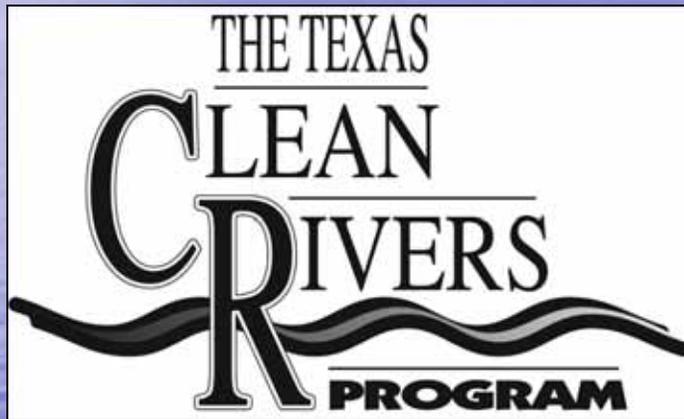
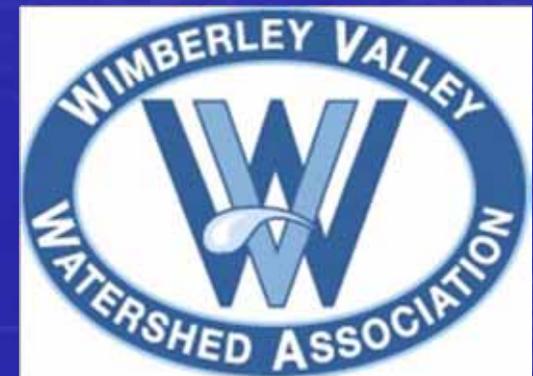


Guadalupe River Basin Clean Rivers Program



2011

Steering
Committee Meeting

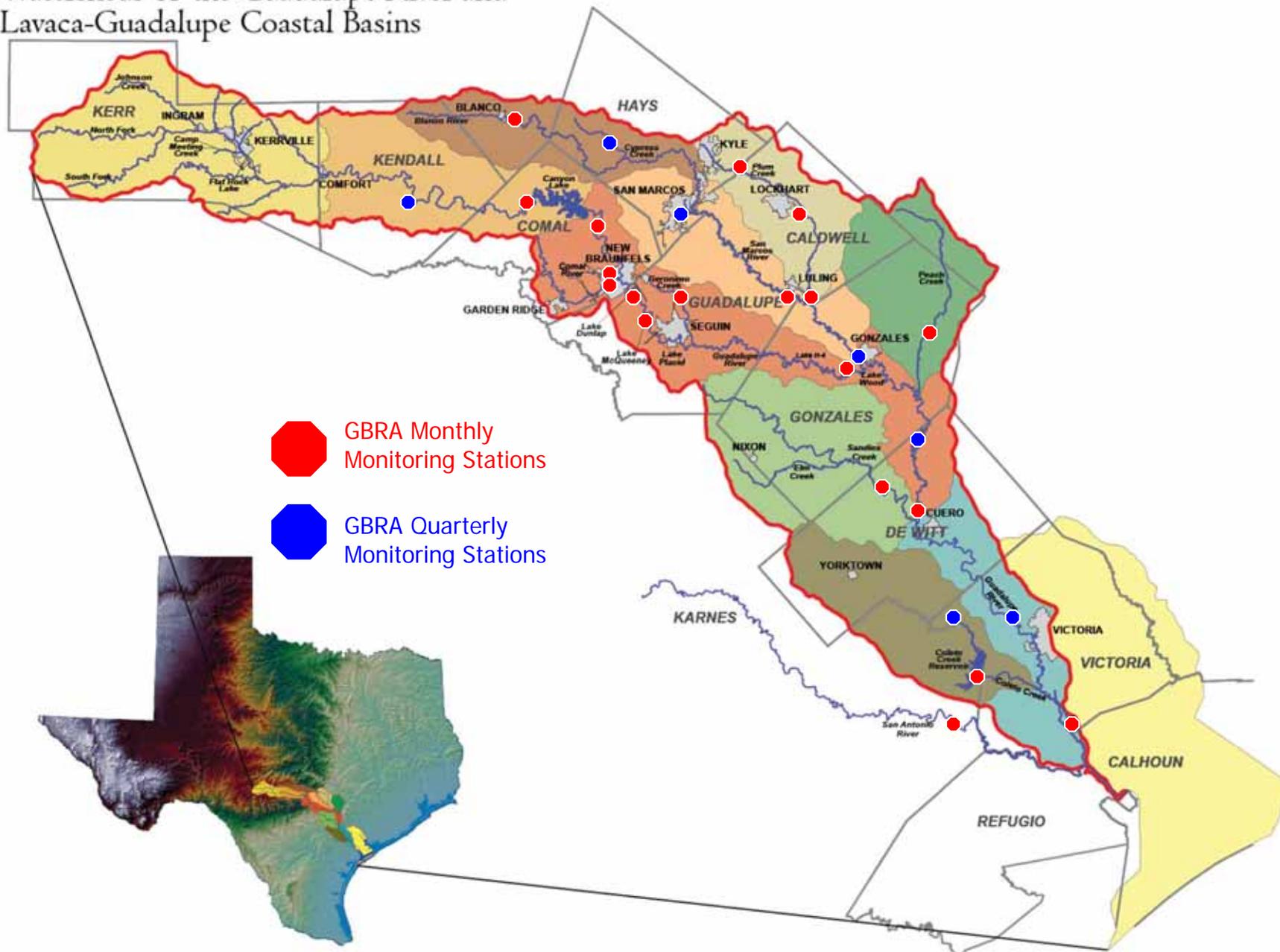


Guadalupe River Basin Clean Rivers Program

FY2010 (09/2010 – 08/2011) Summary of Water Quality Sampling for the Guadalupe & Lavaca Coastal Basins

Sampling Entity	Conventional, Field & Bacteria	Biological & Habitat	24 Hour DO	Metals in Water	Metals in Sediment	Organics In Water	Organics in Sediment
GBRA	19 Sites Monthly; 7 Sites Quarterly	3 Sites Annually	1 Site; 5x a year	2 Sites Annually	1 Site Annually	2 Sites Annually	6 Sites Annually
UGRA	10 Sites Quarterly; 9 Bacteria Sites Monthly	1 Site Annually			1 Site Annually		
TCEQ	13(16) Sites Quarterly	1 Site Semi-annually		2 Sites Semi-annually	1 Site Semi-annually	1 Site Semi-annually	1 Site Semi-annually
WVWA	7 Sites 8x a year		1 Site Annually				

Watersheds of the Guadalupe River and Lavaca-Guadalupe Coastal Basins



Changes to Routine Monitoring Locations

- The Coletto Reservoir routine monitoring station was moved from the Coletto Creek reservoir boat ramp to the Coletto Creek reservoir dam in FY2011. Additionally, 4 Depth Profiles of the reservoir will be conducted by the GBRA at this station on a quarterly basis.



6 Biological/Habitat Assessments in FY2010

- Cypress Creek @ RR12, in the City of Wimberley
- Guadalupe River @ Riverview Road, near Ingram, TX (Removed for FY2011)
- Guadalupe River @ Splitrock Road, Downstream of Kerrville
- Geronimo Creek @ Haberle Road, near Geronimo, TX
- Plum Creek @ Old McMahan Road (CR 202), Downstream of Lockhart, TX
- Plum Creek @ Plum Creek Road, near Umland, TX (Removed for FY2011)



Changes to Biological/Habitat Assessment Schedule in FY2010-11

- The Geronimo Creek @ Haberle Road location was added to the FY10-11 work plan in support of the Geronimo Creek Watershed Protection Plan.
- Biological/Habitat data collection was discontinued because data goals were reached at:
 - Dry Comal Creek @ Seguin Street, New Braunfels, TX
 - Peach Creek @ CR353, in Gonzales County
 - Plum Creek at Plum Creek Road
 - Guadalupe River @ Riverview, near Kerrville, TX.

Metals in Water Sampling

- Peach Creek @ CR 353
- Guadalupe River @ Salt Water Barrier
- Samples Were Tested for Total (Hg, Se) & Dissolved (Al, Ag, As, Cd, Cr, Cu, Ni, Pb, Zn)
All FY2010 results were reported below TSWQS Acute, Chronic & Human Health Criteria.



Metals in Sediment Sampling

- Geronimo Creek @ Haberle Road
- Guadalupe River @ Kerrville State Park
- Samples Were Tested for Total (Al, Ag, As, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn)
- At Geronimo Creek Total (Al, Ag, As, Cd, Cr, Cu, Ni Pb & Zn) were found above the Method Detection limit (MDL)
- At Kerrville State Park Total (Al, As, Cd, Cr, Cu, Ni, Pb & Zn) were found above the MDL.
- All FY2010 levels were below the Threshold Effects Concentrations (TECs) that have been developed as consensus-based sediment quality guidelines for freshwater systems by MacDonald et al. (2000).

Organics in Sediment (TPH & BTEX)

- San Marcos River @ Luling WTP
- San Marcos River @ IH35
- Geronimo Creek @ Haberle Road
- Dry Comal Creek @ Seguin Street
- Plum Creek @ CR135
- Cypress Creek @ the Blanco Confluence
- Total Petroleum Hydrocarbons at the Cypress Creek @ the Blanco Confluence were found above at levels above the method detection limit. BTEX (Benzene, Toluene, Ethylene, Xylene) were not found above the method detection limit in FY2010.

Organics in Water



- As of FY2011 Plum Creek @ Whisper Road (CR 135) is no longer monitored for Organics in Water
- Sampling began at Cypress Creek @ the Blanco Confluence and Dry Comal Creek @ Seguin Street in FY2010-2011.
- Total Petroleum Hydrocarbons and BTEX (Benzene, Toluene, Ethylene, Xylene) were not found above the method detection limit in FY2010.

24 Hour Diurnal Monitoring

- Guadalupe River @ Nursery (5x annually)
- Cypress Creek @ Blue Hole Campground (once annually)



Radiologicals in Water/Sediment

- Coleto Creek at Arnold Road quarterly sampling for the three naturally occurring uranium isotopes ^{234}U (*uranium II*), ^{235}U (*actino-uranium*), ^{238}U (*uranium I*), and Total Uranium occurred in FY2010 in order to document baseline conditions.
- To date, the alpha spectroscopy method has detected the ^{234}U & ^{238}U isotopes, but total uranium levels have consistently been below the method detection limit.
- Sampling of radiologicals was discontinued in FY2011.



Highlights of Events Inventory

- On November 1st 2010, a Hays County roads crew discovered a foul odor and several dead fish downstream of the Kyle WWTP. The TPWD, GBRA and the TCEQ discovered that the plant had suffered a malfunction and discharged thousands of gallons of sewage into Plum Creek.



Highlights of Events Inventory

- The GBRA and the Guadalupe County Environmental Enforcement responded to an illegal dumping complaint on Lake Dunlap on 07-09-2010.



Highlights of Events Inventory

- Several Rio Grande Cichlids were killed in the New Braunfels Golf Course Ponds following a hard freeze in February of 2011.



Highlights of Events Inventory

- The U.S. Army Corp of Engineers inspected the banks of a Gonzales City Park for Dirty Fill (Rebar, etc.)



Highlights of Events Inventory

- In order to utilize the hard freeze as a method of controlling invasive Water Hyacinths in the lower two hydro impoundments at Lake Gonzales and Lakewood, GBRA lowered the lakes 18" to expose approximately 50 acres of the nuisance plant to four days of subfreezing temperatures, in January of 2010 and 2011.



Guadalupe River Basin Clean Rivers Program

FY 2010 – 2011 Budget		
FY2010 (09/01/2009 - 08/31/2010)	FY2011 (09/01/2010 - 08/31/2011)	FY2010-2011 (09/01/2009 – 08/31/2011)
\$160,341.00*	\$143,341.01	\$303,682.00

* FY2010 Budget includes 3 large equipment purchases: A Beckman Spectrophotometer (\$8000.00), and a digital camera (\$800.00), to be used by the GBRA and a SonTek Acoustic flow meter (\$8220.00), to be used by the UGRA contractual partner.

Highlights of 2010-11 Work Plan

Hays County has expressed interest in partnering with the GBRA to begin additional water quality monitoring activities with the Clean Rivers Program.

The GBRA will continue to coordinate with other monitoring projects such as:

- TSSWCB Plum Creek Watershed Protection Plan
- Geronimo Creek Watershed Protection Plan
 - Guadalupe River Monitoring Network
- Cypress Creek watershed planning project

Lee Gudgell
830-379-5822

lgudgell@gbra.org



GBRA

Guadalupe-Blanco River Authority
flowing solutions