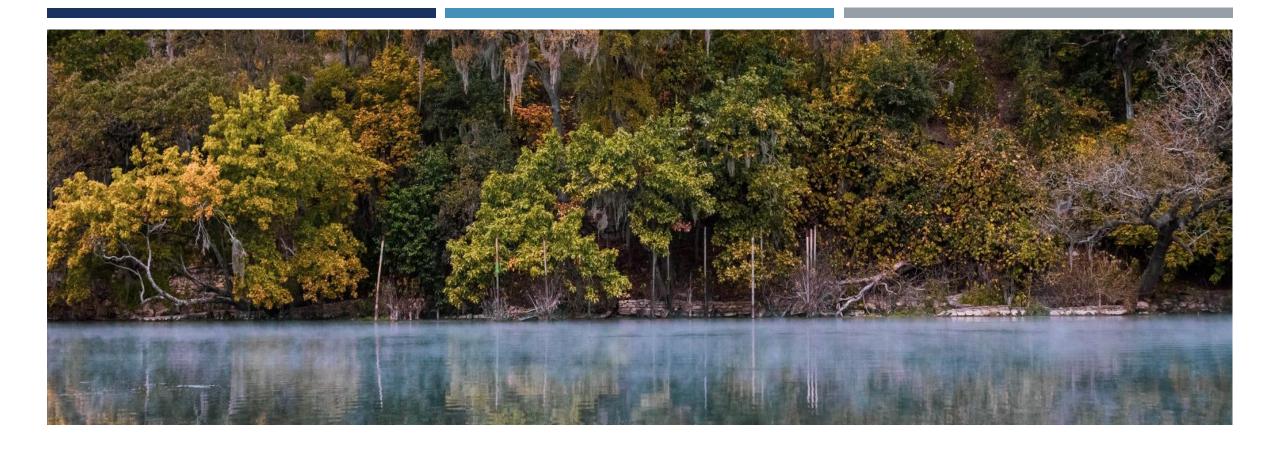
CLEAN RIVERS PROGRAM GUADALUPE RIVER BASIN

GUADALUPE-BLANCO RIVER AUTHORITY UPDATE

ELIZABETH EDGERTON AND JANA GRAY

AUGUST 20, 2020



CLEAN RIVERS PROGRAM UPDATES

Elizabeth Edgerton, Clean Rivers Program Supervisor

- Budget changes
- New CRP Partner
- New Site Impairments

GBRA CLEAN RIVERS PROGRAM OPERATING BUDGET

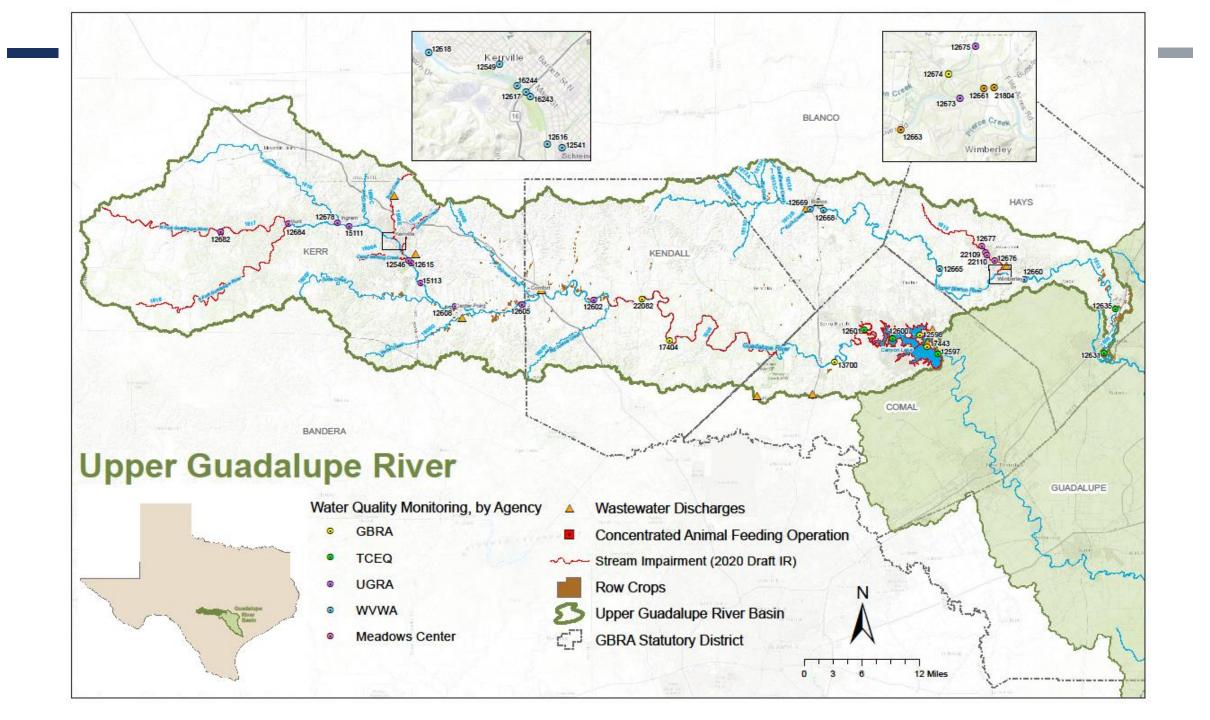
	FY 2020 9/1/19-8/31/20	FY 2021 9/1/20-8/31/21	FY20 – FY21 Total
Total CRP Budget	\$186,493.00	\$169,263.00	\$355,756.00
Supplies	\$5,559.00	\$5,559.00	\$11,118.00
Equipment	\$12,500.00	\$12,500.00	\$25,000.00
Contractual	\$31,780.00	\$14,550.00	\$46,330.00
Travel	\$8,316.00	\$8,316.00	\$16,632.00

Only change: Contractual category, UGRA equipment purchase

NEW CLEAN RIVERS PROGRAM PARTNER



- Previously held a contract with TCEQ to monitor sites within NPS program
- Contract ended
- We brought them on as a CRP partner
- 6 new sites along Cypress Creek
 - The Meadows Center continues to monitors these sites



IMPAIRED SITES – NEW IMPAIRMENTS FOR FY20

- 1806: Guadalupe above Canyon Reservoir
 - Bacteria
- 1815: Cypress Creek
 - Depressed DO levels, 24 hour average
 - Impaired fish and macrobenthic communities
- 1817: N Fork Guadalupe River
 - Impaired fish and macrobenthic communities
- 1818: S Fork Guadalupe River
 - Impaired fish and macrobenthic communities

- 1807: Coleto Creek
 - New site of concern, Chlorophyll-a
 - Algae has drastically increased
 - Possibly due to reduction in vegetation following flooding events

GUADALUPE-BLANCO RIVER AUTHORITY AQUATIC LIFE MONITORING



JANA GRAY – WATER QUALITY TECHNICIAN

 Aquatic life use assessments (ALM's), or bioassessments, describe the integrity of an aquatic system by comparing habitat, water quality, and biological factors with defined reference points



- Sites assessed in 2019:
 - TCEQ Station 13657
 Sandies Creek at Cheapside Road (Westhoff,TX)
 - TCEQ Station 17894Elm Creek at US 87 (Smiley, TX)
 - TCEQ Station 12602
 Guadalupe River at FM1621 (Waring,TX)









13657 – Sandies at Cheapside Road

- Aquatic life use deemed was deemed intermediate in the 2018 Water Quality Standards
- The 2019 ALM supported this designation
- GBRA found:
 - 10 unique species of fish
 - 28 species of macroinvertebrates
 - 4 species of native freshwater mussels
 - Low Dissolved Oxygen concentrations (1.7mg/L in the summer)





17894 - Elm Creek at US 87

- Aquatic life use deemed was deemed intermediate in the 2018 Water Quality Standards
- The 2019 ALM supported this designation
- GBRA found:
 - 19 unique fish species
 - 35 Unique species of macroinvertebrates
 - 3 species of freshwater mussels
 - First Discovery of Fragile Papershell in Guadalupe Basin!



12602 – Guadalupe River at FM1621

- Has a historically exceptional ALU designation
- Previous ALM's have identified concerns for impaired fish community and aquatic habitat
- GBRA found
 - 16 unique species of fish
 - 30 unique macroinvertebrate species
 - I freshwater mussel species



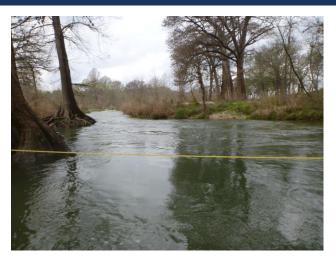
AQUATIC LIFE MONITORING RESULTS SUMMARY

- Confirmed previous concerns for Fish Community & Habitat Upstream of Canyon Lake (Segment 1806)
- Confirmed Established Freshwater Mussel Communities
- Confirmed that an Intermediate ALU Standard is appropriate for Sandies (1803B) & Elm Creeks (1803A)
 - The 2018 TCEQ Water Quality Standards changed the standard from High to Intermediate and is currently being reviewed by EPA.
- Broadened Knowledge of Unique Species in Guadalupe River Basin
 - Guadalupe Roundnose Minnow (Dionda nigrotaeniata)
 - Guadalupe Orb (Cyclonaias necki)
- Extended range knowledge of common species in the Basin
 - Fragile Papershell (Leptodea fragilis)



2020 AQUATIC LIFE MONITORING SITES

- 15113 Guadalupe River at Split Rock
- 14937 Peach Creek at 353
- I 2556 Clear Fork at Salt Flat Road

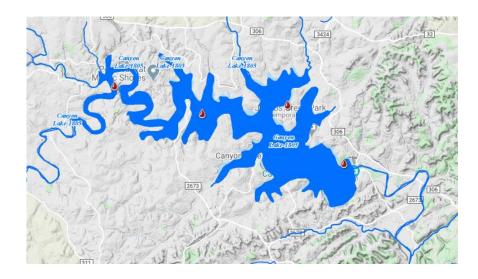






FY2020 SUMMARY OF SAMPLING CHANGES

- Added site at Peach Creek and 1680 and Sandies
 Creek at 1116
- These sites are getting 24hr DO monitoring and bacteria sampling
- Dropped site at Jacobs Creek Park at Canyon Lake due to redundancy
- Added site at Honey Creek in Guadalupe State park



GUADALUPE-BLANCO RIVER AUTHORITY CLEAN RIVERS PROGRAM



ELIZABETH EDGERTON CLEAN RIVERS PROGRAM SUPERVISOR

EEDGERTON@GBRA.ORG

830-379-5822