- Please sign in! There is a link to the google doc in the chat
- Agenda is posted
- Mute yourself and keep your video off when you are not speaking
CLEAN RIVERS PROGRAM

• FY22-23 Budget
• Program Updates
• PFAS
FY22-23 CONTRACT RENEWAL

- 19 Routine Stations
- 14 Quarterly Stations
- 3 ALMs planned for FY22
- FY22: Watershed Characterization
- FY23: Basin Summary
### GBRA CLEAN RIVERS PROGRAM OPERATING BUDGET

<table>
<thead>
<tr>
<th></th>
<th>FY 2022 9/1/21-8/31/22</th>
<th>FY 2023 9/1/22-8/31/23</th>
<th>FY 2022 – FY23 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total CRP Budget</td>
<td>$135,378.00</td>
<td>$135,378.00</td>
<td>$270,756.00</td>
</tr>
<tr>
<td>Supplies</td>
<td>$5,885.00</td>
<td>$5,885.00</td>
<td>$11,770.00</td>
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<tr>
<td>Equipment</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Contractual</td>
<td>$14,550.00</td>
<td>$14,550.00</td>
<td>$29,100.00</td>
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<tr>
<td>Travel</td>
<td>$7,180.00</td>
<td>$7,180.00</td>
<td>$14,360.00</td>
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</tbody>
</table>

- Less than previous contract because of equipment category
## Table 3. Water Quality Impairments and Concerns described in the Draft 2020 Texas Integrated Report for the Clean Water Act Section 303(d) and 305(b) using data from 12/01/11 to 11/30/18.

<table>
<thead>
<tr>
<th>Segment Number</th>
<th>Water Body</th>
<th>Impairment (303(d)) List</th>
<th>Concern</th>
</tr>
</thead>
<tbody>
<tr>
<td>1801</td>
<td>Guadalupe River (Main)</td>
<td>Bacteria, Nutrient</td>
<td>Nitrate</td>
</tr>
<tr>
<td>1802</td>
<td>Guadalupe River below San Antonio River</td>
<td>Bacteria, Nutrient</td>
<td>Nitrate</td>
</tr>
<tr>
<td>1803</td>
<td>Guadalupe River below San Marcos River</td>
<td>Bacteria, Nutrient</td>
<td>Nitrate</td>
</tr>
<tr>
<td>1801A</td>
<td>San Pedro Creek</td>
<td>Depressed Dissolved Oxygen 24-hour Average &amp; Minimum, Depressed Dissolved Oxygen Crab Minimum</td>
<td>Impaired habitat: Depressed Dissolved Oxygen Crab Screening Level, Chlorophyll-a</td>
</tr>
<tr>
<td>1801B</td>
<td>Sandy Creek</td>
<td>Depressed Dissolved Oxygen 24-hour Average &amp; Minimum, Depressed Dissolved Oxygen Crab Minimum, Impaired Fish Community, Impaired Macroinvertebrate Community, Bacteria</td>
<td>Impaired habitat: Depressed Dissolved Oxygen Crab Screening Level, Chlorophyll-a</td>
</tr>
<tr>
<td>1803C</td>
<td>Peach Creek</td>
<td>Depressed Dissolved Oxygen Crab Minimum &amp; Screening Level, Bacteria</td>
<td>Impaired habitat: Depressed Dissolved Oxygen Crab Screening Level, Chlorophyll-a</td>
</tr>
<tr>
<td>1804A</td>
<td>Geronimo Creek</td>
<td>Bacteria</td>
<td>Nitrate</td>
</tr>
<tr>
<td>1804D</td>
<td>Starr Creek</td>
<td>Bacteria</td>
<td>Nitrate</td>
</tr>
<tr>
<td>1805</td>
<td>Canyon Lake</td>
<td>Mercury inhabitable fish tissue</td>
<td>Impaired fish community, Impaired habitat: Depressed Dissolved Oxygen Crab Screening Level</td>
</tr>
<tr>
<td>1806</td>
<td>Guadalupe above Canyon Reservoir</td>
<td>Bacteria</td>
<td>Impaired fish community, Impaired habitat: Depressed Dissolved Oxygen Crab Screening Level</td>
</tr>
</tbody>
</table>

*Blue highlighted text indicates a change from the previous 2018 Texas Integrated Report.*
Sites assessed in 2021:

- TCEQ Station 22082
  - Guadalupe River at River Road
- TCEQ Station 12631
  - Blanco River at CR 295
- TCEQ Station 12576
  - Geronimo Creek at Haberle Rd
- TCEQ Station 12640
  - Plum Creek at 135
2021 AQUATIC LIFE MONITORING EVENTS
FY2022 SUMMARY OF SAMPLING CHANGES

- Conduct an ALM at Station 22082 – Guadalupe River at Sisterdale
- Conduct an ALM at station 12684 – Guadalupe River Adjacent to Hunts Lions Park
- Conduct an ALM at station 18595 – Perdido Creek at FM 622
- Remove DO Monitoring events from sites 15998 Sandies Creek at 1116, 13657 Sandies Creek at Westoff, 17894 Elm Creek at Lazy F Ranch, 14937 Peach Creek at 353, and 17394 Peach Creek at 1680
- Remove bacterial monitoring from sites 15998 Sandies Creek at 1116 and 17394 Peach Creek at 1680
PFAS

- PFAS – Per- and polyfluoroalkyl substances
  - Man made chemical used in many industries around the world, in the States since the 1940s
    - Teflon, fire retardants, some cleaning products, paints
  - Persists in the environment and bio-accumulates, is present in some drinking water
    - Evidence of adverse health effects
- The US is phasing out some PFAS, through PFOA Stewardship Program
  - But these are ‘forever chemicals’
PFAS – DRINKING WATER REGULATIONS COMING

- Currently 29 known PFAS found in our nations drinking water
  - More than 4,700 individual types exist
- February 2021: EPA announced plans to move toward implementing the national primary drinking water regulation development process for two PFAS:
  - PFOA – perfluoroctanoic acid
  - PFOS – perfluorooctanesulfonic acid
- Currently 3 validated methods for analysis of 29 PFAS in drinking water
  - Methods 533, 537, and 537.1
- EPA is developing validated methods for testing for PFAS in:
  - Drinking water, groundwater, surface water, wastewater, and solids including soils, sediments, and biota
- July 2021 the US EPA announced Draft Contaminant Candidate List 5
  - Provides latest list of drinking water contaminants that are known or anticipated and not currently subject to EPA drinking water regulations
  - PFAS are proposed as a group (66 total)
    - Also included cyanotoxins and DBPs
GUADALUPE-BLANCO RIVER AUTHORITY
CLEAN RIVERS PROGRAM

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