

# Conn Brown Harbor Total Maximum Daily Load (TMDL) Project

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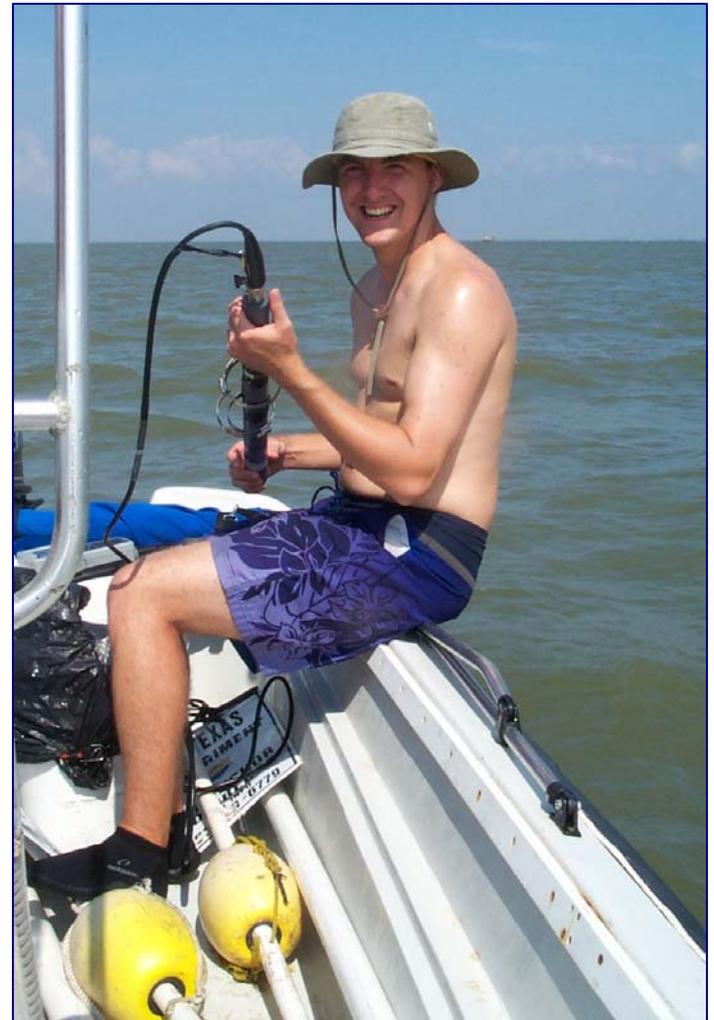


# Introductions

- Ms. Sally Applebaum, UTMSI
  - Dissolved Oxygen and pH
- Ms. Sandra Alvarado, TCEQ
  - TMDL Project Manager

# Purpose of Meeting

- Review monitoring results.
- Provide assessment.
- Receive public input.





# Dissolved Oxygen (DO) Criteria

- Based on 24-hr continuously recorded dissolved oxygen data
- Criteria
  - 24-hr Average DO must be  $\geq 5$  mg/L.
  - 24-hr Minimum DO must be  $\geq 4$  mg/L.
- The assessment unit fully supports the Aquatic Life Use designation if 10% or fewer of the total number of 24-hr average or minimum DO measurements are less than the prescribed criteria.

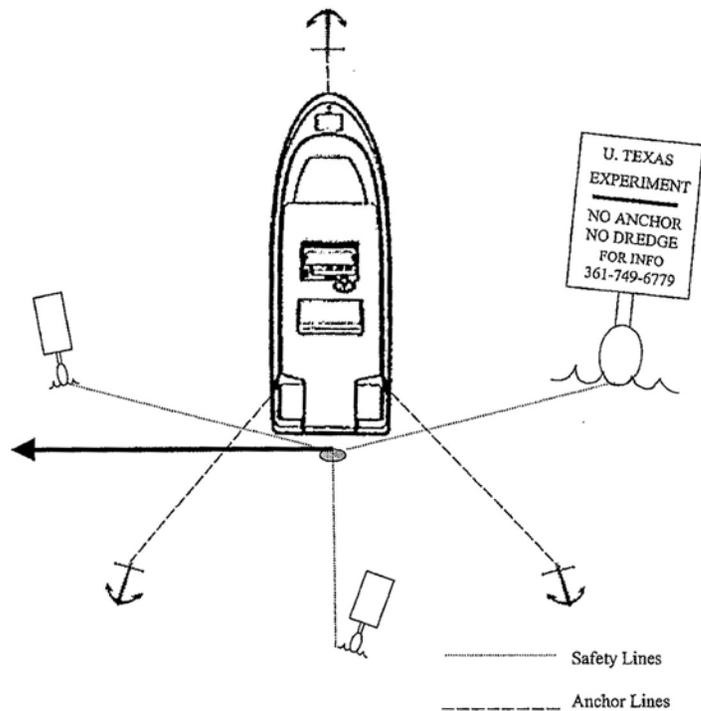


# pH Criteria

- Based on 24-hr continuously recorded data
- The pH criteria is segment specific.
- The segments in this study area has a criteria of:
  - 24-hr average pH must be  $\geq 6.5$  and  $\leq 9.0$
- The assessment unit fully supports the Aquatic Life Use designation if 10% or fewer of the total number of 24-hr measurements are within the prescribed criteria.

# Methods

- Sondes are to be deployed at a depth between 1 ft &  $\frac{1}{2}$  the mixed surface layer.





# **Dissolved Oxygen (DO) Assessment Requirements**

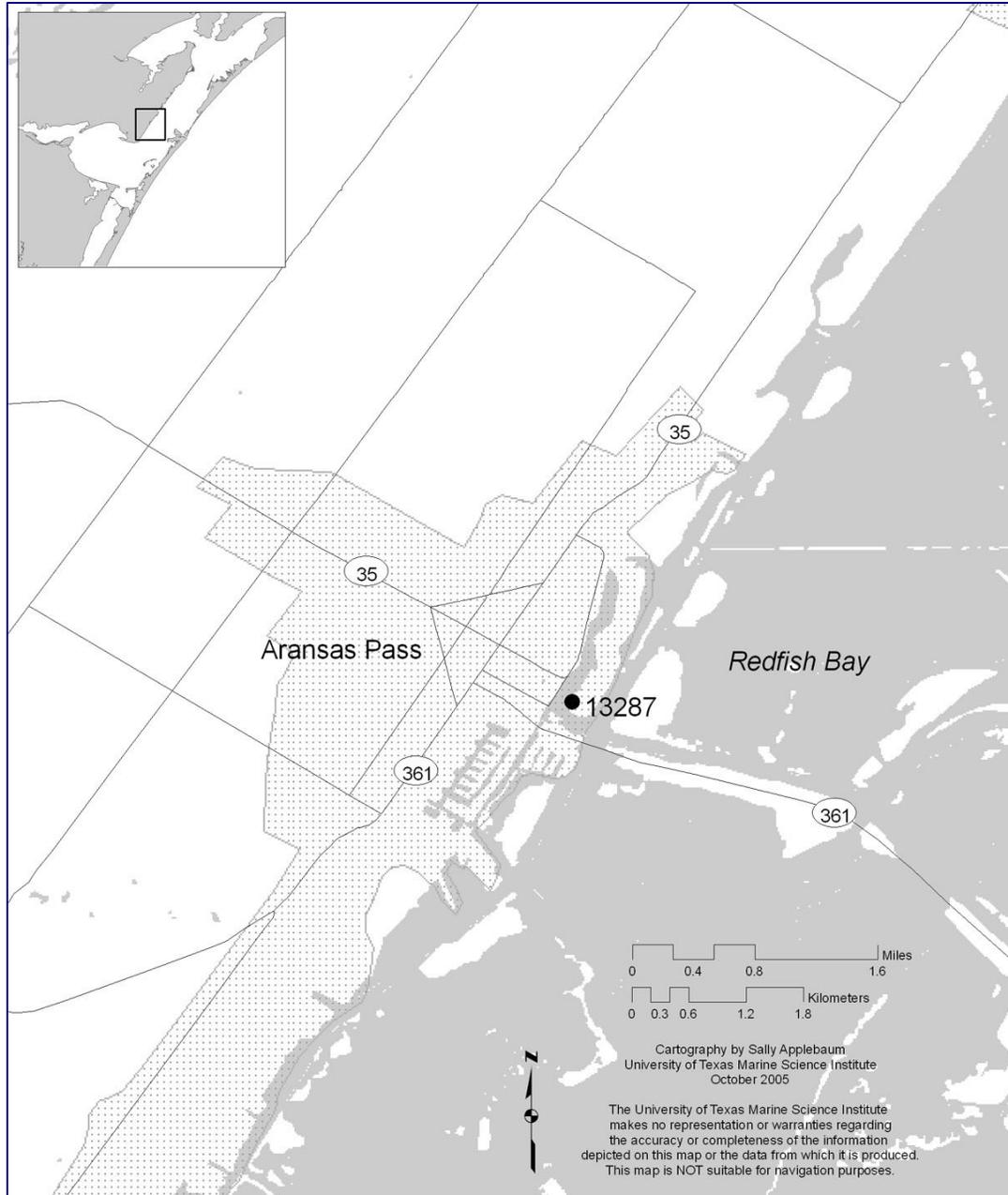
- Sampling events should be a month apart.
- Measurements should be at least 15 min. apart.
- 2 sondes are to be deployed in the same general area at least 20% of the time.
- All Quality Assurance requirements must be met (i.e. pre-/post-calibration, etc.).



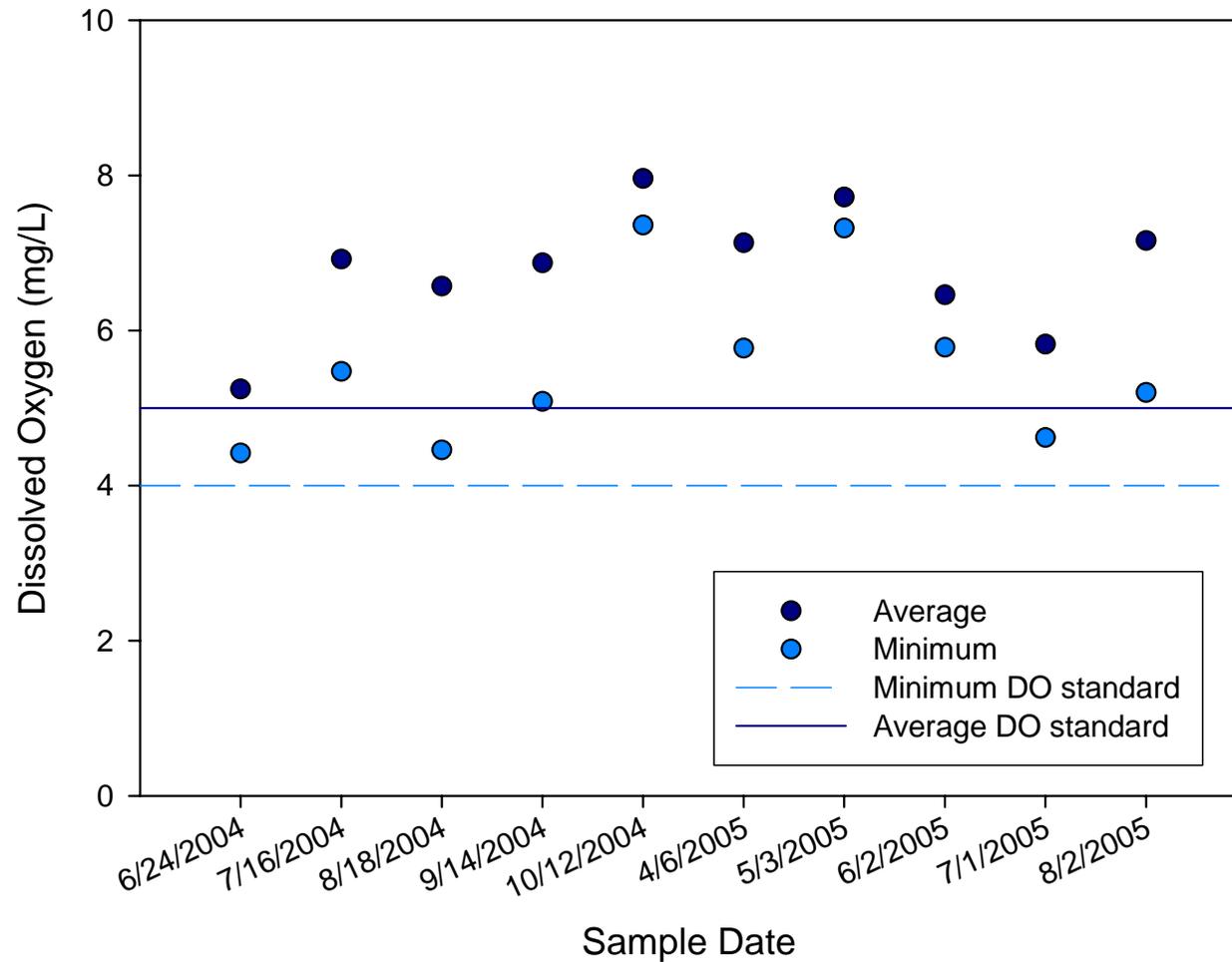
# 24-hr Dissolved Oxygen (DO) Data Available for Assessment

- Sampling Plan
  - Station 13287
    - June – October 2004 and April – August 2005 sampled from 2004 through 2005
  - At least 10 sampling events per station
- All measurements must be taken within the index period (March 15 – October 15).
- At least one, and between 1/2 and 2/3 of each year's samples must be taken during the critical period (July 1 – Sept. 30)
- No more than 2/3 the total number of samples should come from the same year.

# Station Location



# Average and Minimum 24-hour DO Concentrations Segment 2483A – Conn Brown

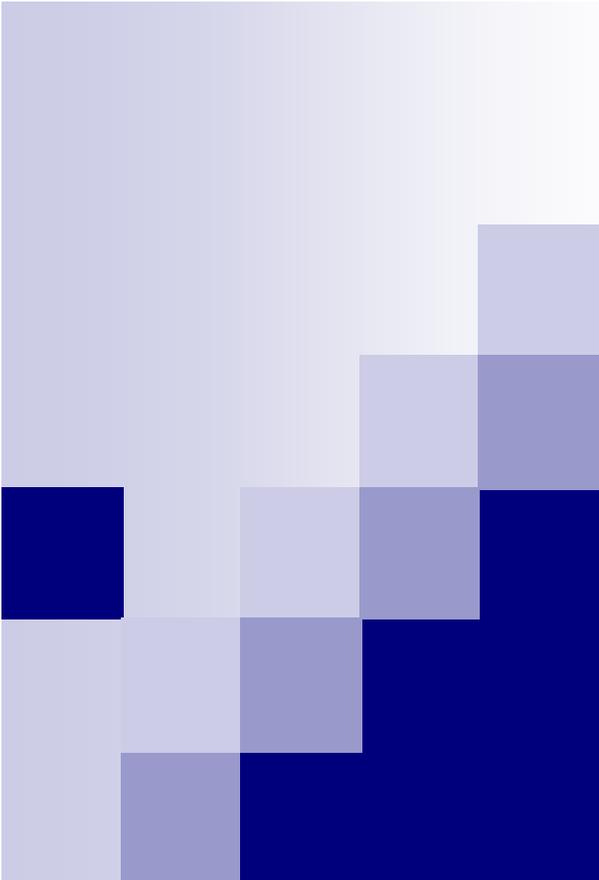


0 of 10 measurements were below the criteria 0%

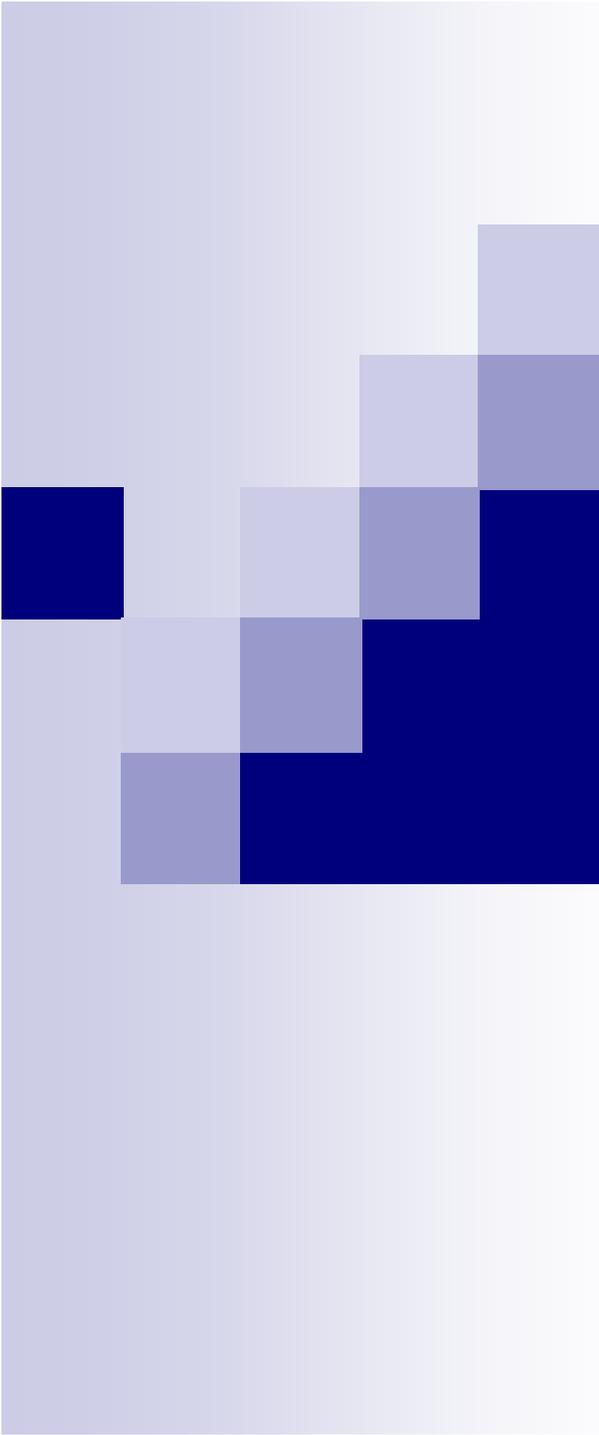


# Assessment Conclusions

- All measurements met the average and minimum standard for exceptional aquatic life use, with 0 of a total of 10 measurements (0%)
- All ph values were within the prescribed criteria
- Recommendation: Delisting



# Observer Comments and Questions



**Adjourn**