



## TWDB Progress Report for Contract 2000012405

Date: April 13th, 2020  
To: Andrea Croskrey, Geoscientist Innovative Water Technologies (TWDB Project Manager)  
Erika Mancha, Manager Innovative Water Technologies  
From: Kristi Shaw PE (HDR Project Manager)  
Subject: TWDB Contract 2000012405 Progress Report for Invoice #1 (Reporting dates 12/23/19 through 03/28/20)

### Work Completed:

#### Task 1 - Literature Review

Identified recent ASR studies nationally and in Texas.  
Evaluated methodology used in specific recent studies identified in RFQ related to ASR/AR.  
Prepared outline of proposed methodology for study.  
Delivered draft TM- Literature Review to TWDB on Jan 24, 2020 for consideration and comment.  
Met with TWDB staff on Jan 28, 2020 to present Lit Review results and respond to questions.  
Received TWDB comments. Sent updated partial version to address NTP comments.  
Problems Encountered this period: None

#### Task 2 - Hydrogeological Parameter Screening

Met with TWDB staff and project team on Mar 11, 2020 to kick-off & discuss hydrogeological screening tool.  
Problems Encountered this period: None

#### Task 3 - Excess Water Screening

Identified water sources in Texas considered "excess water available for storage". Discussed methods and data sources for gathering info for screening tool.  
Developed a detailed method to determine frequency, volume, duration, and distance from excess water available for storage.  
Prepared batch script for gathering unappropriated flow data for WAM control points and EPA ECHO data for wastewater return flows.  
Problems Encountered this period: None

#### Task 4 - Water Supply Needs Screening

Obtained current and future water needs from the 2021 Draft Regional Water Plan (2022 State Water Plan).  
Began development of a detailed methodology to integrate water supply needs for evaluating the suitability of ASR and AR.  
Considered volume of water supply needs for 5 categories identified in the State Water Plan and developed approach for county-wide WUGs.  
Prepared preliminary list of parameters to include in Water Supply Needs Screening tool.  
Problems Encountered this period: None

#### Task 5 - Final Suitability Rating

No work completed in reporting period.  
Problems Encountered this period: None

#### Task 6 - Public Data Display

No work completed in reporting period.  
Problems Encountered this period: None

#### Task 7 - Draft and Final Report

No work completed in reporting period.  
Problems Encountered this period: None

#### Task 8 - Project Management

Coordination with subconsultants. Project management.  
Met with TWDB on Mar 9, 2020 and GIS Mapping team to discuss public data display needs. Prepared meeting notes.  
Problems Encountered this period: None