

**Monthly Letter Progress Report #7– November 8, 2016**  
Study of Brackish Aquifers in Texas – Gulf Coast Aquifer  
TWDB Contract No. 1600011947

*Submitted to:*

**Texas Water Development Board**  
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*Prepared by:*



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**November 8, 2016**

# MONTHLY LETTER PROGRESS REPORT #6

November 8, 2016

Study of Brackish Aquifers in Texas – Gulf Coast Aquifer

TWDB Contract No. 1600011947

## 1.0 Budget and Expenses

This report summarizes the project costs for a billing period from 8/01/2016 to 9/30/2016 and replaces the previously submitted Progress Report #6 dated September 20, 2016. The total invoice is \$63,384. The total expenditures to date are \$499,973.63. A budget breakdown by tasks is provided in Table 1.

Table 1. Planned and Incurred Expenses by Task Progress by Tasks

TASK	DESCRIPTION	Budget	Invoices			Remaining Budget
			Current	Previous	Total	
1	Project Management	\$22,740.00	\$1,849.00	\$18,938.39	\$20,787.39	\$1,952.61
2	Delineate Fresh, Brackish, and Saline Groundwater	\$196,650.00	\$19,988.84	\$183,131.47	\$203,120.31	-\$6,470.31
3	Quantify Groundwater Volumes	\$52,430.00	\$0.00	\$43,269.38	\$43,269.38	\$9,160.62
4	Delineate Brackish Groundwater Zones	\$93,160.00	\$999.88	\$92,528.61	\$93,528.47	-\$368.47
5	Stakeholder Communications	\$7,315.00	\$1,692.06	\$5,331.67	\$7,023.73	\$291.27
6	Determine GW Brackish Groundwater Over 30-year and 50-year Periods	\$92,690.00	\$30,454.12	\$61,116.21	\$91,570.33	\$1,119.67
7	Reporting and Deliverables	\$35,015.00	\$8,399.72	\$32,274.30	\$40,674.02	-\$5,659.02
Total		\$500,000.00	\$63,383.60	\$436,590.03	\$499,973.63	\$26.37

Progress reported for period beginning on August 1 and ending September 30, 2016.

### **Task 1 Project Management**

Coordinated with TWDB for stakeholder presentation #3 and with subcontractors.

### **Task 2 Delineate Fresh, Brackish, and Saline Groundwater**

Modifications and changes were made to the report figures and text to address TWDB comments.

### **Task 3 Quantify Groundwater Volumes**

No work performed for this task.

### **Task 4 Delineate Groundwater Brackish Zones**

Modified report to include a discussion of a brine zone.

### **Task 5 Stakeholder Communications**

Prepared PowerPoint presentation for Stakeholder #3 meeting

Presented at the Stakeholder #3 meeting on September 9<sup>th</sup> in Austin Texas.

### **Task 6 Determine Volume of GW Brackish over 30-year and 50-year Periods**

Reran particle tracking for the well fields pumping 10,000 AFY using a higher density of particles spread across base of fresh water zone than used for model results shown in the draft report. Redrafted figures and text to reflect the revised results.

Modifications and changes were made to the report figures and text to address TWDB comments.

### **Task 7 Reporting and Deliverables**

Prepared and submitted final draft report to TWDB on August 31, 2016 with a draft final BRACS database submittal and GIS files submittal.

Prepared and submitted responses to TWDB comments on final report.

Resubmitted an electronic copy of a revised final report to the TWDB on September 30, 2016.

## **3.0 Planned Activities for the Next Month**

There are no plans for additional work in October. The project has been completed.