



Corpus Christi Aquifer Storage
& Recovery Conservation District

1201 Leopard St.
Corpus Christi, TX 78401

QUARTERLY PROJECT PERFORMANCE REPORT

Date: April 17, 2017

Reporting Period: Q2 FY17, January 1 – March 31, 2016

Recipient: Corpus Christi Aquifer Storage and Recovery Conservation District
Larijai Francis, CCASRCD Project Manager
1201 Leopard Street
Corpus Christi, Texas 78401-2825

Executive Administrator

Designee: Matthew Webb, TWDB Project Manager

Subject: Research Contract between the Corpus Christi Aquifer Storage and Recovery Conservation District and the Texas Development Board, Contract No. 1600011956

Project: Corpus Christi ASR Feasibility Study

Work Completed:

Pursuant to Section II, Article II, subsection 3 of the Contract this progress report represents a summary of work completed during the 1st Quarter 2017 for the Corpus Christi ASR Feasibility Study. Exhibit B of the TWDB contract include the Scope of Work. Exhibit B contain six (6) distinct tasks with subtasks. An update to these tasks is provided overleaf and thus serves as the update mechanism for this contract. The project is scheduled for Bid opening on May 09, 2017 and City Council award on July 11, 2017.

Project Financial Update

Expenditures for the Project have been incurred by the Corpus Christi Aquifer Storage and Recovery Conservation District in the amount of \$94,380.28. The responsibility for this expenditure has been distributed between the District and TWDB and is reflected on the payment request form for this quarter.



HDR Engineering, Inc.
Austin, TX 78741
Phone: (512) 913-5100

Invoice

Please send remittance with copy of invoice to
P.O. Box 3488
Omaha, NE 68103-0488

HDR Invoice No.	1200038626
Invoice Date	2/27/2017
Month Ending	2/4/2017

Corpus Christi ASR Feasibility Study - Invoice #3

Task 1 - Formulate Program

Prepared meeting materials for District meeting and project update. Travel expenses for February 2nd meeting. ✓
Problems Encountered this period: None

Task 2 - Exploratory Test Drilling Program

Contacted Parks & Recreation Department and Corpus Christi International Airport staff to discuss proposed testing locations. ✓
Revised two locations based on client feedback to address logistical issues. Coordination with City Staff to determine any access constraints or permits needed.
Confirmed FAA protocol for proposed testing locations within 10,000 feet of the airport. Performed preliminary calculations using GIS to ✓ determine maximum height and runway distance to confirm that proposed locations meet FAA slope criteria, at minimum. Began process of FAA Obstruction Permit Application.
Prepared list of assumptions for use in developing technical specifications, including water source, lay-down, driller vs owner responsibilities, and noise ordinances. Provided to the City for feedback and confirmation. ✓

Presentation to District on February 2nd meeting and received confirmation of locations and preliminary feedback on driller procurement process. ✓
Developed draft technical specifications for test drilling program, to include 01 30 00 Special Conditions, 01 35 05 Environmental Protection, 01 74 13 Cleaning, 31 10 00 Site Clearing, 31 23 00 Earthwork, 32 91 13 Topsoiling and Finished Grading, and 32 92 00 Seeding. QA/QC of draft technical specs.
Prepared site plan and well construction diagrams for inclusion in bidding documents. ✓
Problems Encountered this period: None

Task 3 - Geochemical Analysis

No Work This period.
Problems Encountered this period: None

Task 4 - Field Scale Groundwater Model

No Work This period.
Problems Encountered this period: None

Task 5 - ASR Operating Policies

No Work This period.
Problems Encountered this period: None

Task 6 - TWDB Coordination, Draft/Final Deliverables and Meetings

No Work This period.
Problems Encountered this period: None

*Also worked on City Front
End documents → Maybe
that will be properly
changed in Invoice #4.
UP
3/9/17.*



HDR Engineering, Inc.
 Austin, TX 78741
 Phone: (512) 912-5100

Invoice

Please send remittance with copy of invoice to
 P.O. Box 3480
 Omaha, NE 68103-0480

HDR Invoice No.	1200043116
Invoice Date	3/23/2017
Month Ending	3/4/2017

Corpus Christi ASR Feasibility Study - Invoice #4

Task 1 - Formulate Program

Administrative activities associated with TWDB requested revisions and updates to previously issued invoices.
 Problems Encountered this period: None

Task 2 - Exploratory Test Drilling Program

Identified favorable depth intervals for testing based on geophysical log interpretation and updated well construction diagrams.

Prepared technical specifications for well drilling, testing, and development (33 21 31 Gravel Pack well) including material/product selection, driller submittals, and field program sequencing based on the approach outlined in the draft work plan (Task 1). QA/QC of draft technical specs.

Developed final proposed well location site plan and individual well location maps denoting limits of site disturbances for bidding documents. Coordination with TCEQ- Region 14 (Melanie Edwards) to confirm disposal considerations and permits. None are required for this project. Submitted draft technical specifications for City Staff review and comment, to include 01 30 00 Special Conditions, 01 33 00 Submittals, 01 35 05 Environmental Protection, 01 74 13 Cleaning, 31 10 00 Site Clearing, 31 23 00 Earthwork, 32 91 13 Topsoiling and Finished Grading, 32 92 00 Seeding, 33 21 31 Gravel Pack Wells and associated Appendices- general site hydrology schematic, site plan maps (7), and well construction diagrams. Received and addressed City Staff comments. Received and reviewed City of Corpus Christi's 240+ page Front End documents for inclusion in bidding package. Prepared project-specific revisions for City Staff consideration for 90% bidding documents. Coordination of project schedule with City Staff and project team related to bidding and pre-submittal meetings. Submitted 90% bidding documents to the City on 2/17/2017, to include City's Front End materials and HDR's technical specifications. Total: 272 pages. Printing costs for two-hard copies and delivery to City Hall.

Received and reviewed City Staff comments. Participated in two conference calls to discuss comments. Began preparing 100% bidding documents.
 Problems Encountered this period: None

Task 3 - Geochemical Analysis

No Work This period.
 Problems Encountered this period: None

Task 4 - Field Scale Groundwater Model

No Work This period.
 Problems Encountered this period: None

Task 5 - ASR Operating Policies

No Work This period.
 Problems Encountered this period: None

Task 6 - TWDB Coordination, Draft/Final Deliverables and Meetings

No Work This period.
 Problems Encountered this period: None

✓
 JH
 3/24/17