



February 16, 2023

10365346

Mr. Jeff H. Edmonds, P.E., Director of Engineering Services
City Of Corpus Christi
1201 Leopard Street
Corpus Christi, TX 78401

RE: Evangeline Groundwater Evaluation – City of Corpus Christi

Dear Mr. Edmonds,

We appreciate the opportunity to partner with the City of Corpus Christi on the Evangeline Groundwater Evaluation. The City of Corpus Christi is interested in evaluating the delivery of Evangeline Laguna LP (Evangeline) groundwater supplies to the City, City wholesale customers, or existing/future industrial customers. The City continues to evaluate additional water supply strategies to integrate in the City's current water system to address future growth, impacts from drought, and meet long-term regional water demands. The City has been in discussions with Evangeline regarding their groundwater supply. The purpose of this project is to identify regulatory, costs, and implementation challenges associated with delivery of this groundwater.

A detailed scope of services and schedule for the Evangeline Groundwater Evaluation project is included in Exhibit A.

In summary, HDR is requesting a lump sum amount of \$94,090.00 as detailed in the Fee Summary - Exhibit B for providing the services outlined in the scope of work.

If you have any questions, don't hesitate to contact us to discuss further.

Sincerely,
HDR ENGINEERING, INC.

Samuel Saldivar, Jr., P.E.
Civil Group Lead

David C. Weston
Gulf Coast Area Manager

CC: Esteban Ramos, P.E., City of Corpus Christi

Enclosure:
Exhibit A – Scope of Services
Exhibit B – Summary of Fees
Exhibit C - Schedule



EXHIBIT “A”
CITY OF CORPUS CHRISTI, TEXAS
SCOPE OF SERVICES

PROJECT NAME: Evangeline Groundwater Evaluation

1. PROJECT DESCRIPTION

The City of Corpus Christi (City) continues to evaluate additional water supply strategies to integrate into the City’s current water system to address future growth, impacts from drought, and meet long-term regional water demands. The City has been in discussions with Evangeline Laguna LP for up to 25 million gallons per day (MGD) of groundwater supplies from San Patricio County ([Evangeline Groundwater Project | Corpus Christi | \(evangelinewater.com\)](http://evangelinewater.com)). HDR met with City Staff on January 24, 2023 to discuss project needs which served as the basis for this scope. The purpose of this project is to identify regulatory, costs, and implementation challenges associated with delivery of Evangeline groundwater supplies to the City, City wholesale customers, or existing/future industrial customers. Planning-level costs will be developed using the TWDB Uniform Costing Model (2018) updated to reflect ENR’s December 2022 construction cost indices (CCI) for delivery to up to five (5) locations which will be confirmed during the kick-off meeting with City staff, Evangeline representatives and designees.

2. SCOPE OF SERVICES

The project will involve completion of the following six tasks.

Data Request and Confirmation of Approach

HDR will prepare an initial data request based on information gathered from meeting with City Staff on January 24, 2023 and submit to City Staff for forwarding to Evangeline and/or designees prior to kick-off meeting. Note: HDR will confirm the volume of water supply with City Staff.

Water Quality Analysis

HDR will compile available water quality data from the Evangeline Aquifer and prepare a summary table that compares with City of Corpus Christi current water supplies, and TCEQ and EPA primary and secondary drinking water targets. HDR will work with City of Corpus Christi staff to prepare a list of constituents for sampling and analysis for third-party testing.

Regulatory Considerations

HDR will review the San Patricio County Groundwater District rules and awarded production permit (expiring April 2024) and identify potential project risks. HDR will evaluate regulatory, permitting and implementation considerations and data gaps affecting long-term water supply reliability. HDR will consider previous studies on water quality, drawdown impacts, and subsidence potential to identify an overall risk profile associated with groundwater development from this project. HDR will discuss potential water rights precedents and regional drawdown impacts and mitigation responsibilities during the kick-off meeting with Evangeline Laguna LP

representatives.

Project Alternative Evaluation

HDR will evaluate up to 5 delivery options of raw or treated water supplies to include:

- 1- Pipeline to O.N. Stevens WTP (ONS)
- 2- Transport using Mary Rhodes Pipeline – Treated using Reverse Osmosis
- 3- Transport to Wholesale Customer(s)
- 4- Delivery to San Patricio Municipal Water District (SPMWD)
- 5- Other configuration confirmed during kick-off meeting.

Planning-level costs will be developed using the TWDB Uniform Costing Model (2018) updated to reflect ENR's December 2022 construction cost indices (CCI).

HDR will prepare a cost comparison and non-economic factor comparison for the project alternatives related to supply reliability, consistency, water quality, operational complexity, costs, and/or other aspects of City interest. During an in-person workshop with City staff (Task 6), the alternatives will be scored, and the decision model results will be viewed in real-time.

Technical Memorandum

HDR will deliver a brief technical memorandum summarizing results of tasks above, including recommendation and next steps. The technical memorandum will summarize available water quality data and comparison to TCEQ and EPA standards for primary and secondary drinking water constituents. HDR will present a draft to City Staff with two weeks review time, to include a high-level summary for City Manager and/or City Council. HDR will accept City Staff comments on draft, revise accordingly, and submit a final draft to the City.

Project Meetings and Administration

Up to four (4) meetings total are included in this scope. HDR will meet with the City of Corpus Christi and Evangeline Laguna LP representatives and their engineer for an in-person kickoff meeting in San Antonio to obtain information on yield, water quality, drawdown impacts, treatment options, and delivery points for project consideration. During Task 4, HDR will coordinate a two (2) hour in-person workshop with City staff to review draft capital/O&M cost estimate information and confirm criteria of interest for comparing alternatives. Technical subject matter leads will be available virtually. Guidance received from the City during this meeting will be incorporated into the report prepared by HDR under Task 5. A brief virtual presentation will be made to City staff that summarizes draft findings of the study after delivery of the draft technical memorandum. At City Staff request, HDR will present the final technical memorandum results in an in-person meeting with City Manager and executive team. In addition to project meetings, this task will provide for general project management and administration activities including project coordination, internal HDR project accounting, and preparation of progress reports and invoices associated with this task order. This task also includes up to 2 follow-up calls with Evangeline or their consultants to gather additional information or clarification during project execution.



3. SCHEDULE

A draft technical memorandum will be issued 8 weeks after the kick-off meeting and receiving data request materials. Schedule assumes two weeks for City Staff review and comment of draft technical memorandum. HDR will address City Staff comments received on the draft and issue the final technical memorandum within two weeks of receiving comments.

Exhibit B Summary of Fees

EVANGELINE GROUNDWATER EVALUATION

Basic Services:

- 1. Groundwater Technical Memo
- 2.

Subtotal Basic Services Fees

Additional Services:

- 1.

Subtotal Additional Services

Summary of Fees

Basic Services Fees

Additional Services Fees

Total of Fees

Contract	Total Contract
\$94,090.00	\$94,090.00
	\$0.00
\$94,090.00	\$94,090.00
\$0.00	\$0.00
\$0.00	\$0.00
\$94,090.00	\$94,090.00
\$0.00	\$0.00
\$94,090.00	\$94,090.00

**EXHIBIT C
SCHEDULE
EVANGELINE GROUNDWATER EVALUATION**

<u>Task Name</u>	<u>Date</u>
NTP	TBD
Kickoff Meeting	1 week upon receiving NTP
Receipt of Data	2 weeks upon receiving NTP
Draft Technical Memorandum	8 weeks after NTP
City Review/ Comment	2 weeks from draft submittal
Final Technical Memorandum	2 weeks from City comments