



May 7, 2026

Ms. Sonia Iszler  
Engineering and Operations Manager  
City of Marco Island Water and Sewer Department  
50 Bald Eagle Drive  
Marco Island, FL 34145

**RE: Proposal for Hydrogeological Services for Liner Installation at Well RO-16  
City of Marco Island Water and Sewer Department, Marco Island, Florida**

Dear Ms. Iszler:

Apex Companies, LLC by and through its wholly owned subsidiary Water Science Associates, LLC (Apex) is pleased to submit this letter proposal for professional hydrogeological services for the installation of a liner in the City's Reverse Osmosis (RO) water supply Well RO-16 located on South Sunset Street in Marco Island, Collier County, Florida. The purpose of the new liner will be to address the salinity intrusion occurring between casing joints

#### [Project Understanding](#)

These proposed services come after an Apex Technical Memorandum issued to the City on March 23, 2026, detailing the geophysical logging and video survey investigation of the salinity intrusion at RO-16 in November 2025. Apex identified an ongoing intrusion of saline water from a separated casing joint at a depth of 156 feet below top of casing (btoc). The separation appears to be about ¼ to ½ inch wide and saline water was observed flowing into the well.

#### [Scope of Services](#)

The scope of our proposed services includes subcontracting with a qualified licensed water well contractor to remove the City's wellhead and pump, run a caliper log across the casing length to be lined, properly install the liner, conduct a video survey of the newly installed liner, install a new pump and existing 60 horsepower (HP) motor and cable, and test the new liner and pump. This scope includes the removal and installation of the City's wellhead, submersible pump, wire, riser pipe, and/or power cable to complete the liner installation and to restore the well to service as efficiently as possible to minimize impacts on the City's operation of the well.

**Task 1. Liner Installation and Testing** – Apex will coordinate with the City and our subcontractor to access the well and to conduct well liner installation activities. These activities will include the removal of the wellhead, controlling artesian flow, removing the City's pump and pumping equipment, completing a caliper log across the casing, installing approximately 160 feet of 8-inch schedule 20, 0.25-



inch wall thick, A312 304L EFW SRL stainless steel blank casing, installing a 8 x 11-inch K-Packer, cementing the liner in place with neat cement to ground surface, land and securing the 8-inch liner to the existing wellhead piping, conducting a video survey of the new liner, installing a new submersible 6-stage pump with existing 60 HP motor and cable, installing 5-inch Certa-Lok PVC pipe adaptors, and performing a test of the pumping system. Apex will provide digital copies of the caliper log and video survey to the City upon completion of the installation phase of the work.

**Task 1 Lump Sum:     \$141,500.00**

**Task 2. Well Remediation Technical Report** – Apex will prepare a report that will include a detailed description of the work performed, the results of the caliper log and video survey, and the startup paperwork of the well which will include pump and column pipe details.

**Task 2 Lump Sum:     \$3,500.00**

**Total for Task 1-2 Lump Sum:     \$145,000.00**

Invoices will be issued to the Client on a monthly basis and will be based upon percentage complete per lump sum task identified above. The compensation indicated above is based on an estimate of the character and extent of work involved. Unforeseen conditions, which become evident during the course of the work, may alter or increase the effort required. The amount will not be exceeded without written amendment between the Client and Apex.

#### [Project Schedule](#)

The proposed fee and effort are based upon Apex's best faith effort to fully understand the needs of this proposal. If the scope of the services to be rendered is changed materially or if the period of time required to render services hereunder is extended beyond the completion dates proposed, the amount of compensation provided shall be adjusted appropriately (if required), upon approval of the Client and Apex. If project delays outside of Apex's control cause the completion date to extend substantially, additional compensation may be requested through a written amendment to account for additional coordination time.

#### [Acceptance](#)

We look forward to working with you on this important project. We would be pleased to discuss the scope of services and this proposal with you. Please find attached our cost breakdown of labor and costs for the services we are proposing for the installation of a liner at Well RO-16.

Apex is ready to begin work upon receipt of a signed proposal or a PO. Please feel free to contact Joshua Messenger or Andy McThenia with any questions or concerns.



Sincerely,

Joshua Messenger, PG  
Project Manager/Senior Hydrogeologist  
P: 508.789.0624  
E: [joshua.messenger@apexc.com](mailto:joshua.messenger@apexc.com)

Andy McThenia, PG  
Senior Project Manager  
P: 239.529.4396  
E: [andy.mcthenia@apexc.com](mailto:andy.mcthenia@apexc.com)

Attachment:  
Apex Standard Billing Rates

This Proposal is subject to, and the Services hereunder shall be performed in accordance with, the terms and provisions of that certain Agreement of Master Terms and Conditions with an Effective Date of **October 15, 2020**, by and between the **City of Marco Island and Water Science Associate, Inc.**

**(A signed copy of this proposal must be received by Apex prior to the commencement of work. A scanned copy is acceptable but must be followed by the original.)**

**SUBMITTED BY:**

Andrew McThenia

Signature:

Name: Andrew McThenia

Title: Senior Project Manager

Date: 05/07/2026

**ACCEPTED FOR CLIENT BY:**

\_\_\_\_\_

Signature:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_





**2023 Hourly Rates:**

Principal Scientist / Engineer	\$265
Senior Project Manager	\$220
Senior Water Resource Modeler	\$220
Senior Scientist / Engineer	\$200
Water Resource Modeler	\$190
Project Manager	\$180
Project Scientist / Engineer	\$175
Staff Scientist / Engineer	\$150
GIS/CADD Technician	\$130
Field Technician	\$125
Administrative Support	\$85

**Reimbursable Expenses:**

Mileage:	Current IRS Mileage Rate
Other Incidental Expenses	Actual Cost plus 15%
Expert Witness	200% of Scheduled Rate