

MEMORANDUM

TO: Albrej Arrington, Ph.D. / Loxahatchee River District

COPY: Clint Yerkes / Loxahatchee River District
Tom Vaughn / Loxahatchee River District
John Koroshec / Hazen and Sawyer
Felipe Martinez / Hazen and Sawyer

FROM: Albert Muniz / Hazen and Sawyer

DATE: August 12, 2015

FILE: 42009-012.3.1.3

SUBJECT: Loxahatchee River District
Engineer's Monthly Status Report through July 2015

The following is a summary of work performed by Hazen and Sawyer, P.C. (H&S) on Loxahatchee River District (LRD) projects through the above referenced date.

General Operational Assistance – This project involves providing LRD with engineering assistance related to wastewater operations.

Monthly Progress

- LRD staff and H&S personnel continue to communicate to discuss plant operations
- The wastewater treatment process continues to operate well
- It should be noted that the periodical 5-year Mechanical Integrity Test (MIT) must be completed by May 31, 2016. Hence, permitting for the MIT should be submitted to the Florida Department of Environmental Protection (FDEP) by the end of November 2015 to allow sufficient time for regulatory approval and bidding of said work. It is recommended that preparation of the plan commence in September 2015. Cost for preparation of the plan, observation during testing, and preparation of the MIT report will be less than \$25,000. A draft task order will be submitted to the LRD for consideration within the next two weeks.

Deep Bed Sand Filters – Final Design and Construction Management Services – The existing traveling bridge filters and filter structure have served the LRD wastewater treatment facility for over 20 years and are in need of significant rehabilitation and repair. In lieu of repair and replacement, it is the LRD staff's desire to replace the filters with deep bed sand filters. Deep bed filters offer additional benefits over traveling bridge filters including de-nitrification capabilities as well as proven performance during plant upset conditions. A Preliminary Design Report for construction of the deep bed filters was prepared and submitted to the LRD in March 2014. This PDR provides a conceptual design and layout of the filtration system and

concluded the first part of the overall design phase. The next phase will be final design. This portion of the project was initiated with approval of the design and construction phase services task order by the Board during the April 2014 Board Meeting. The approved task order includes final design and construction phase services.

Monthly Progress

- Palm Beach County Planning, Zoning and Building Dept. Zoning Division site plan revision approval was obtained on May 15, 2015
- Building Department permit application packages were submitted to Palm Beach County on June 4, 2015. H&S has been monitoring the progress of the Building Department permit application and has provided additional information when requested. Permitting for this application has been completed and applicable comments have been incorporated into the bid set contract documents
- Hazen and Sawyer has also revised the front end documents and is coordinating with the LRD to advertise and bid project.

As always, please feel free to contact us should you have any questions or need to discuss the progress of any of the above projects in more detail.



HOLTZ CONSULTING ENGINEERS, INC.
50 South U.S. Highway One, Suite 206, Jupiter, FL 33477 (561) 575 2005

MEMORANDUM

To: Clint Yerkes, Deputy Director, Loxahatchee River Environmental Control District

From: Christine Miranda, PE
Holtz Consulting Engineers, Inc.

Date: August 13, 2015

Subject: **Loxahatchee River Environmental Control District Monthly Status Report**

The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through August 13, 2015:

Rolling Green Road Low Pressure Force Main

- The project was advertised on July 19, 2015. The bid opening is on Tuesday, August 18, 2015 at 2:00 p.m.
- Addendum #1 was issued on August 6, 2015.
- A meeting was held with the Palm Beach County Engineering Department on August 10, 2015 to respond to additional questions. The permit has been approved and issued.
- Addendum #2 was issued on August 13, 2015.

Loxahatchee River Road Reclaimed Water Main Replacement

- The 90% Design Submittal was submitted to staff for review and comment on July 16, 2015.
- The environmental subconsultant, EW Consultants, completed their environmental assessment of the project area. Nothing of concern was noted.
- The permit applications for the Palm Beach County Engineering right-of-way permit and FDEP Submerged Land Lease application have been submitted.
- A meeting was held with the Palm Beach County Engineering Department on August 10, 2015 to discuss their review comments.
- On August 13, 2015 notice was received that the Army Corps of Engineers (ACOE) has received the FDEP Submerged Land Lease application. This implies that the FDEP has no comments and has sent it to ACOE for review and approval.
- Upon notice from Palm Beach County Engineering that they are satisfied with the response to their review comments, the final engineering plans, contract documents and technical specifications, and engineer's estimate of probable construction cost will be transmitted to staff.

Jupiter Plantation Lift Station #13 Force Main Replacement



- Survey was completed by Lidberg Land Surveying on August 4, 2015.
- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff by August 21, 2015.

Maplewood Lift Station #21 Force Main Extension

- The draft survey was completed by Lidberg Land Surveying on August 6, 2015. We are anticipating that the final survey will be completed by August 14th.
- Anderson Andre Consulting Engineers completed and transmitted the geotechnical engineering report on August 12, 2015.
- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost, upon receipt of the final survey, is scheduled to be submitted to staff by August 28, 2015.



*Loxahatchee River Environmental Control District
Monthly Status Report
August 10, 2015*

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through August 10, 2015.

Little Oaks / River Oaks Neighborhood Sewering

The Construction Contract was awarded to Foster Marine Contractors in the amount of \$1,548,615. NTP was issued to the Contractor on 7-20-15. The Substantial Completion date is 2-10-16 and the final completion date is 4-15-16. MC reviewed shop drawings and coordinated upcoming construction activities with the District and Contractor.

A resident meeting was held on 8-5-15.

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

A handwritten signature in black ink, appearing to read 'Rene L. Mathews', is written over the printed name.

Rene L. Mathews, P.E.
President

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
ENGINEER'S MONTHLY STATUS REPORT THRU JULY 26, 2015**

JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION

- Coordination with SFWMD for the Dewatering Permit.
- Preparation of final plans and specifications for bidding.
- Preparation of material for the Pre Bid Conference to be held on July 28, 2015.
- Distribution of Bid Documents and fielding Contractor questions.

ARCADIS US, Inc.



Thomas C. Jensen, PE
Vice President