

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: July 7, 2015

FILE: 42009-012.3.1.3

SUBJECT: Loxahatchee River District
Engineer's Monthly Status Report through June 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.

Groundwater Monitor Wells – This project consist of construction of eleven new shallow monitor wells as part of the Wastewater Treatment Facility reuse monitoring system and as required by the new operating permit. The new monitor wells are needed to address FDEP's current position on proximity to the respective recharge lakes (i.e., located within 100 feet of lake), and screening through the water table interface. In addition to construction of new wells, the project also includes plugging and abandonment 34 existing wells. The new monitoring program will allow the LRD comply with FDEP's permit requirements and significantly reduce the amount of sampling required for compliance.

Monthly Progress

- A letter report documenting the work completed as per the permit was submitted in draft format to the FDEP on April 27, 2015
- A copy of the draft was also provided to the LRD on April 26, 2015
- FDEP had no comments on the report so a final version was prepared and submitted to the FDEP on July 1, 2015, which signifies completion of the project

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

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 is monitoring the progress of the Building Department permit application and is providing additional information when requested

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.



Infrastructure · Water · Environment · Buildings

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
ENGINEER'S MONTHLY STATUS REPORT THRU JUNE 28, 2015**

JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION

- Resubmitted responses to SFWMD for:
 - Dewatering Permit
 - Environmental Resource Permit (Drainage)
- Resubmitted responses to PB Engineering for the Utility Permit
- Submitted 100% plans and specifications to District
- Meetings with District to review their comments
- Commenced with finalizing plans and specifications
- Coordinated with the District on Bidding dates.

ARCADIS US, Inc.

A handwritten signature in blue ink, appearing to read "Thomas C. Jensen".

Thomas C. Jensen, PE
Vice President



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: July 9, 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 July 9, 2015:

Rolling Green Road Low Pressure Force Main

- The 100% Design Submittal, including plans, specifications, final cost estimate and bid documents were submitted to staff on July 7, 2015.
- The project will be advertised on July 12, 2015. The bid opening is scheduled for Tuesday, August 11, 2015 at 2:00 p.m.
- The Palm Beach County Health Department permit has been issued.
- A response to Palm Beach County Engineering Department questions has been prepared and submitted, and we are awaiting issuance of the right-of-way permit.

Loxahatchee River Road Reclaimed Water Main Replacement

- Review comments from staff on the interim submittal were received on July 6, 2015.
- The 90% Design Submittal will be submitted to staff for review and comment by July 17, 2015.
- The environmental subconsultant, EW Consultants, is currently performing their environmental assessment of the project area.
- The permit application for the Palm Beach County Engineering right-of-way permit will be submitted at the same time as the 90% submittal.
- The permit application for the FDEP Submerged Land Lease application will be submitted upon receipt of the environmental assessment.

Jupiter Plantation Lift Station #13 Force Main Replacement

- Survey and geotechnical services are underway and will be completed by July 17, 2015.
- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff by August 14, 2015.

Maplewood Lift Station #21 Force Main Extension



- The project was authorized on June 17, 2015.
- HCE has coordinated with Lidberg Land Surveying for survey and utility locates for the project.
- HCE has coordinated with Anderson Andre Consulting Engineers for the geotechnical investigation for the project.
- Survey and geotechnical services will be completed by July 29, 2015.
- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff by August 19, 2015.



*Loxahatchee River Environmental Control District
Monthly Status Report
July 8, 2015*

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through July 8, 2015.

Little Oaks / River Oaks Neighborhood Sewering

Two (2) bids were received ranging from \$1,548,615 to \$2,149,080. MC recommended award of the Contract to Foster Marine Contractors in the amount of \$1,548,615. MC developed shop drawing list for the project and began setting up the construction forms for the project. MC also conformed the construction plans for the project.

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

Rene L. Mathews, P.E.
President



June 2015
WGI MONTHLY PROGRESS REPORT

| | |
|----------------------------|--|
| Project Title | Ocean Cove Force Main |
| Project Number(s) | LRD P.O. No.: 47357 WGI No: 40910986.06 |
| WGI Project Manager | James W. Richie, PE |

① Work Completed This Month

- Connections to existing system. Begin restoration.
- Substantial Completion field review.
- Resolve HOA vehicle damage claim and restoration items.
- Change Order 1.

② Anticipated Work Next Month

- Final Completion
- Final Pay Application

③ Services Anticipated After Next Month

- None

④ Critical Issues (Milestones)

- Approaching Final Completion contract date.

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