

## 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:** February 11, 2016

**FILE:** 42009-012.3.1.3

**SUBJECT:** Loxahatchee River District  
Engineer's Monthly Status Report through January 2016

The following is a summary of work performed by Hazen and Sawyer, P.C. (Hazen) 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 Hazen personnel continue to communicate to discuss plant operations on an as needed basis. The wastewater treatment process continues to perform well
- Hazen continues to provide assistance on an as needed basis

**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. Design of the project is complete and the project has entered the construction phase.

### *Monthly Progress*

- Bid opening occurred on October 29, 2015
- A letter recommending award to the lowest cost, qualified, responsive and responsible bidder (i.e., Kirlin Florida, Inc.) was prepared and submitted to LRD on November 4, 2015
- The Board approved the Kirlin contract at the November 19, 2015 Board Meeting
- Following Board approval, a Notice of Award letter and four sets of contract documents for execution of the contract was delivered to Kirlin on November 23, 2015
- Kirlin delivered signed contracts to the District on December 4, 2015, and subsequently reviewed

by the District attorney prior to execution by the District

- A pre-construction meeting was held on January 13, 2016 and Kirlin was issued a Notice to Proceed on January 18, 2016
- Kirlin is currently securing permits and preparing to mobilize on-site within the next few weeks
- Progress meetings are being held bi-monthly

**Mechanical Integrity Testing for 2016** – Hazen was authorized to begin permitting for the 2016 standard 5-year Mechanical Integrity Test (MIT) as required by the injection well operating permit. Testing must be completed by May 31, 2016. Below is a summary of activities performed to date:

- Hazen submitted the MIT plan to FDEP on November 11, 2015
- FDEP reviewed the plan and approved it on November 13, 2015
- Hazen has finalized the technical specifications and will coordinate with LRD staff to determine if the project will be bid or piggy-backed with a publicly bid similar project in January 2016
- Hazen is obtaining a copy of recent low bids for conducting a MIT and will be sharing this information with LRD staff by end of February to finalize contracting. It appears that at least one favorable contract is available to piggy-back the MIT test

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.

**LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT  
ENGINEER'S MONTHLY STATUS REPORT THRU JANUARY 31, 2016**

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**JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION PROJECT**

- Completion of conformed documents for incorporation of contractor executed documents.
- Addressed comments from Palm Beach County Roadway on the off-site turn lane improvements.
- Held a meeting at the Colony to coordinate the on-site residential irrigation well testing required prior to construction.
- Attended the Colony Property Owners Association meeting with Albrey Arrington and gave the residents an update on the project and answered questions.
- Scheduled the pre-pre construction meeting with the contractor, Giannetti Contracting Corp., to occur on February 2, 2016.

ARCADIS, Inc.

  
Sira Prinyavivatkul, PE

Kimley-Horn and Associates, Inc.

  
Thomas C. Jensen, PE



**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:** February 11, 2016

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

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The following is a summary of work performed by Holtz Consulting Engineers, Inc. (HCE) on Loxahatchee River District projects through February 11, 2016:

**Loxahatchee River Road Reclaimed Water Main Replacement**

- We are waiting for the Florida Department of Environmental Protection to issue the submerged land lease. This is the only outstanding permitting issue. Upon receipt of the submerged land lease the final plans and specifications will be submitted and the project will be advertised for bidding.

**Jupiter Plantation Lift Station #13 Force Main Replacement**

- The project was advertised for bidding on January 31, 2016.
- The pre-bid meeting is scheduled for February 17, 2016.
- Bids will be opened on March 3, 2016.

**Maplewood Lift Station #21 Force Main Extension**

- Upon receipt of issuance of the permit from Palm Beach County Engineering, the 100% design submittal will be submitted and the project will be advertised for bidding.

**Turtle Creek Phase I**

- The preliminary design analysis technical memorandum has been reviewed by LRD staff and comments were provided to HCE on February 8, 2016.
- The 30% design submittal and cost estimate for Subsystem 5 will be submitted to staff during the week of February 15, 2016.



*Loxahatchee River Environmental Control District  
Monthly Status Report  
February 10, 2016*

*Submitted To: Clinton Yerkes, Deputy Director*

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The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through February 10, 2016.

**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 anticipated to be 2-15-16 and the final completion date is anticipated to be 4-24-16. MC attended the monthly meeting, reviewed shop drawings, responded to RFI's, coordinated construction activities with the District, Contractor and PBC, and provided resident inspection services.

**Alternate A1A Subaqueous Forcemain Study**

A kick-off meeting was held with the District on 9-18-15. MC completed preparing the Base Drawings; conducted a field reconnaissance of the pipeline corridor on both sides of the bridge; completed photographic log walk-thru of the project; and completed Utility coordination. The District provided MC with the requested downstream pressure readings on 10-23-15. MC completed the hydraulic modeling task now that we have this information. MC continued development of the Draft Preliminary Design Report. A coordination meeting was held with the District on 1-27-16 to discuss the alternatives to rehab/replace the Alt. A1A subaqueous forcemain.

The Draft Temporary / Emergency Bypass Pumping Plan was submitted to the District for review on 1-13-16. The District provided MC comments on the Draft Temporary / Emergency Bypass Pumping Plan on 2-10-16. MC anticipates finalizing the Draft Study Report the week of 2-22-16.

**Master Lift Station #1 Rehabilitation**

MC completed the Preliminary Design Criteria to be incorporated into the Preliminary Design Report. MC prepared a Flow Analysis Technical Memorandum and submitted it to the District on 1-5-16 for review and comment. Final comments were received from the District on 2-3-16. MC is currently finalizing the Draft Preliminary Design Report.

Respectfully Submitted by:

**MATHEWS CONSULTING, INC.**

Rene L. Mathews, P.E.  
President