

## 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:** December 9, 2015

**FILE:** 42009-012.3.1.3

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

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 staff has provided information for sampling as requested

**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*

- The project was advertised on August 16, 2015
- A mandatory pre-bid conference was held on September 29, 2015

- Addendum No. 1 was issued to all planholders on October 8, 2015
- Addendum No. 2 was issued to all planholders on October 21, 2015
- 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. The documents are currently being reviewed by the District attorney prior to execution by the District

**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 is working on finalizing 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
- It is anticipated that the MIT will be conducted during the first quarter of 2016

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:** December 10, 2015

**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 December 10, 2015:

**Rolling Green Road Low Pressure Force Main**

- The certification of completion from the Palm Beach County Health Department to place the system into service was received on November 24, 2015.
- We are in receipt of the final record drawings for the project. The Contractor will be providing two sets of signed and sealed drawings and 2 CD's.
- The final pay request was transmitted to LRD and recommended for payment on December 9, 2015.

**Loxahatchee River Road Reclaimed Water Main Replacement**

- We are currently working with the Florida Department of Environmental Protection on 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**

- Permit applications to the applicable agencies are currently being submitted.
- The 100% design submittal will be submitted upon receipt of permits and the project will be advertised for bidding.

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

- Permit applications to the applicable agencies are currently being submitted.
- The 100% design submittal will be submitted upon receipt of permits and the project will be advertised for bidding.

**Turtle Creek Phase I**

- Preliminary design work will be completed by January 4, 2016. The results will be summarized in a technical memorandum submitted to staff.
- We anticipate to have the survey and geotechnical work completed before the holidays. The 30% design submittal and cost estimate will be submitted to staff by February 1, 2016.



*Loxahatchee River Environmental Control District  
Monthly Status Report  
December 9, 2015*

*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 December 9, 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 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 continued the hydraulic modeling task now that we have this information. MC began developing the Draft Preliminary Design Report.

**Master Lift Station #1 Rehabilitation**

MC began preparation of the Preliminary Design Criteria to be incorporated into the Preliminary Design Report. MC continued preliminary evaluation of the pump station operations data provided by the District, as well as the Population Analysis.

Respectfully Submitted by:

**MATHEWS CONSULTING, INC.**

Rene L. Mathews, P.E.  
President