

## MEMORANDUM

**TO:** Albrey 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:** May 14, 2015

**FILE:** 42009-012.3.1.3

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

- Permitting of the wells has been completed
- Construction of the eleven new wells was completed in April
- Abandonment of the 34 existing monitor wells was completed in April
- FDEP was notified that all work was completed and a letter report was forthcoming
- Letter report is being prepared and should be completed in May

**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*

- The 90% complete design documents were submitted to the LRD on Friday, March 6, 2015
- The updated anticipated construction schedule and opinion of probable construction cost estimate based upon the 90% design completion documents will be submitted to the LRD by March 12, 2015
- A review meeting was held with LRD staff and the constructability review team on April 17, 2015 to discuss comments on the 90% complete design documents. H&S is finalizing the incorporation of revisions resulting from comments received from the 90% design review meeting and preparing a final set of contract documents for the Palm Beach County Building Department permit drawing review process to occur prior to bidding.
- Permitting of the project is ongoing:
  - ✓ The permit process for both the FDEP Environmental Resource Permit (ERP) and FDEP construction permit were initiated. H&S has received an email confirmation from FDEP that an ERP will not be required for the project. H&S submitted the application package to construct the deep bed filters to FDEP on March 12, 2015. FDEP issued a Notice of Permit Revision to LRD on March 24, 2015.
  - ✓ H&S attended a Site Plan pre-application meeting on March 31, 2015 at the Palm Beach County Zoning Division. At the meeting H&S was informed that the deep bed filter project will require site plan revision approval by Palm Beach County. The site plan revision approval package was submitted on April 28, 2015. Site plan revision approval must be obtained prior to initiating the Palm Beach County Building Department permit drawing review process.

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 APRIL 26, 2015**

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**JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION**

- Finalized driveway grade elevations
- Developed sketches for Dewatering Permit Application
- Received HRS comments, and revised plans and resubmitted
- Received PBC R/W comments and revising plans accordingly
- Submitted to SFWMD for Drainage Permit
- Submitted to SFWMD for Dewatering Permit
- Met with Loxahatchee River District to discuss irrigation wells, dewatering and sequencing of work
- Held several meetings with Colony to discuss entrance road layout
- Submitted plans to Mock Roos for review.

ARCADIS US, Inc.




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:** May 14, 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 May 14, 2015:

**Rolling Green Road Low Pressure Force Main**

- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost was submitted to staff on April 22, 2015.
- A meeting was held on May 7, 2015 to go over the review comments on the 30% submittal.
- The 90% Design submittal, including plans and specifications will be submitted to staff by June 11, 2015.
- Permit applications will be submitted at the time of the 90% Design submittal.

**Loxahatchee River Road Reclaimed Water Main Replacement**

- The final survey and geotechnical report was transmitted to staff on May 6, 2015.
- The 30% Design Submittal and Engineers Opinion of Probable Construction Cost will be submitted to staff on May 15, 2015.



***Loxahatchee River Environmental Control District  
Monthly Status Report  
May 6, 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 May 6, 2015.

**Little Oaks / River Oaks Neighborhood Sewering**

MC submitted the 75% Design package to the District on February 5, 2015. The soil borings and soft digs in the project area have been completed and the information was shown on the 75% plans. A 75% design review meeting was held on March 3, 2015. Based on the District's comments made at the meeting, MC completed the Construction Drawings. The project advertises for bid on May 10, 2015.

The following summarizes the permitting efforts:

1. SFWMD Dewatering Permit – the permit has been secured.
2. PBCHD Wastewater Collection/Transmission Permit – the permit has been secured.
3. Palm Beach County Utility Permit – the permit has been secured.

**Deep Bed Filters 90% Constructability Review**

MC conducted the 90% VE/Constructability workshop March 30, 2015 through April 2, 2015. The VE/Constructability report was submitted to the District on April 6, 2015. A review meeting was held on April 17, 2015. The project is complete.

Respectfully Submitted by:

**MATHEWS CONSULTING, INC.**

A handwritten signature in blue ink, appearing to read "Rene L. Mathews".

Rene L. Mathews, P.E.  
President



## April 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

- Pay Application 1 (reviewed and rejected)
- Progress Meeting 2
- Site visits to observe progress, MOT, underground conduits, pressure test
- Respond to residents and coordinate damage claims

### ② Anticipated Work Next Month

- Substantial Completion
- Final Pay Application
- Progress Meeting 3 (if needed)

### ③ Services Anticipated After Next Month

- None

### ④ Critical Issues (Milestones)

- Poor quality of pay application and documentation
- Approaching limit of WGI construction services fee
  - \$862.50 remaining in budget
  - Approximately \$2,000.00 work remaining (final pay application, review record drawings, substantial and final reviews, certifications of completion and resolution of HOA issues)


☞ WE APPRECIATE THE OPPORTUNITY TO SERVE YOU! ☞

## Memorandum

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Date: May 14, 2015

To: Dr. D. Albrey Arrington, Executive Director  
Loxahatchee River District

From: Lawrence A. Lardieri, P.E. 




Subject: May 2015 Monthly Report

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Project: Turtle Creek Area Sanitary Sewer PER

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This memorandum is a synopsis of the activities by AECOM Technical Services, Inc. on the subject project through Wednesday, May 13, 2015.

-  AECOM received LRD staff comments on the draft PER document provided for review. We are in the process of incorporating into the PER the information requested in the comments, updating the report figures and the Engineer's Opinion of Probable Construction Costs.
-  Once the revisions to the PER have been made, we will conduct our final QA/QC of the documents and deliver the final PER document to LRD within the next couple of weeks.
-  AECOM coordinated with District staff regarding the project as necessary.

End of Report