

## 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:** January 7, 2015

**FILE:** 42009-012.3.1.3

**SUBJECT:** Loxahatchee River District  
Engineer's Monthly Status Report through December 2014

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 have met on several occasions during the past month to discuss plant operations. The wastewater treatment process continues to operate well as evident by the plant's performance
- H&S staff continues to communicate with LRD staff on an as-needed basis
- H&S will be meeting with LRD staff to discuss improvements to the sludge dewatering building during the next few days

**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*

- H&S continues to work on completion of the design documents. H&S has had ongoing coordination meetings with facility staff to discuss various design issues including re-routing of the main electrical feed
- The 60% complete design documents were submitted one October 21, 2014
- An inspection of Filter Pump Station No. 1 wet well was performed by H&S staff during the scheduled plant shutdown the night of October 29, 2014. The inspection was performed to evaluate the condition of the wet well in addition to the overflow weir gate diverting flow to the injection well pump station.
- The VE team received and reviewed the 60% complete contract documents. Comments from the VE team were received by the design team on November 3, 2014
- A review meeting / workshop was held with the VE team, LRD staff and the design team on November 13, 2014 to discuss comments
- The design team also met with LRD staff on November 14, 2014
- Review comments are being incorporated as applicable and the design is progressing towards 90% completion. Submittal of the 90% complete set of contract documents will be the next deliverable. A review meeting will be held with LRD staff to discuss comments following the submittal of the 90% complete documents
- A constructability review based on the 90% complete documents will be performed in February 2015. Constructability review comments, as applicable, will be incorporated into the final contract documents
- Permitting of the project is continuing. The permit process for both the FDEP Environmental Resource Permit (ERP) and FDEP construction permit were initiated.

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 DECEMBER 31, 2014**

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**JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION**

- Continued with roadway and drainage design, and proceeded with the sanitary sewer profile design.
- Continued discussions and held meetings with the District and the Colony on the location of the on-site lift station. These discussions are continuing.
- Commenced with the development of draft technical specifications.
- Commenced with the permit applications.

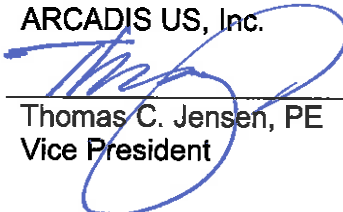
**LENMORE / PALMWOOD SURVEY**

- Survey field work and utility locates complete.
- Draft survey drawing submitted on 12/18/14 for review.

**DUBOIS LANE SURVEY**

- Completed staking of easements on 12/15/14.

ARCADIS US, Inc.



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Thomas C. Jensen, PE  
Vice President



## December 2014 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**

- Bid review and recommendation.

**② Anticipated Work Next Month**

- Begin Construction Phase

**③ Services Anticipated After Next Month**

- Construction Phase

**④ Critical Issues (Milestones)**

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☞ WE APPRECIATE THE OPPORTUNITY TO SERVE YOU! ☞



*Loxahatchee River Environmental Control District*  
*Monthly Status Report*  
*January 7, 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 January 6, 2015.

**Fox Run Neighborhood Sewering**

The project was bid on 11-6-14. Five bids were received. MC recommended award of the Construction Contract to the Lazarus Group in the amount of \$155,767. MC provided the District with the Conformed Construction documents. MC is currently waiting for the Public Meeting to be scheduled.

**Set-N-Sun Neighborhood Sewering**

This project was bid on 12-4-14. Three bids were received. MC recommended award of the Construction Contract to the Lazarus Group in the amount of \$98,402. MC provided the District with the Conformed Construction documents. MC is currently waiting for the Public Meeting to be scheduled.

**Little Oaks / River Oaks Neighborhood Sewering**

MC submitted the 50% Design package to the District on 11-21-14. A 50% Design Review meeting was held with the District on 12-3-14. MC redesigned the 50% plans and cost estimate to reflect only having one lift station and not two as was originally planned. MC is currently preparing the 755 design submittal. The soil borings and soft digs in the project area will be completed by the end of January 2015.

**Northwest Service Area Wastewater Hydraulic Model Update**

Mathews Consulting held a meeting with Staff to discuss preliminary results prior to finalizing the hydraulic report on November 6, 2014. MC ran two additional model runs as requested by Staff. The Draft Report was submitted to the District on December 17, 2014 for review and comment.

Respectfully Submitted by:

**MATHEWS CONSULTING, INC.**


Rene L. Mathews, P.E.  
President

## Memorandum

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Date: January 8, 2015

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

From: Lawrence A. Lardieri, P.E. 







Subject: January 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 Thursday, January 8, 2015.

-  AECOM completed development of the two Alternate layouts (draft form) for the sanitary sewer facilities. Locations for possible connection to the existing sanitary sewer infrastructure were established and a list of preliminary design criteria and assumptions was prepared.
-  Prior to finalizing the draft Alternate layouts, a visual observation of the study area was conducted with the preliminary layouts in hand. Based on this review, a few final adjustments to the proposed alignments and connection locations were made and the draft Alternate layout Figures were finalized.
-  Using the draft Alternate layouts, quantity takeoffs were prepared and an Engineers Preliminary Opinion of Probable Construction Cost (EPOPCC) was developed for each Alternate.
-  AECOM staff met with District staff to review the draft documents and to discuss the Alternate layouts, assumptions made, and preliminary cost opinions. The purpose of the meeting was to obtain staff input and discuss any questions or comments related to the two Alternate layouts. District staff will complete their review of this information over the next several days and will be providing AECOM with their input and comments.
-  AECOM will continue to work on the preparation of the draft PER. Once District staff comments have been received on the draft Alternates and EPOPCC, we will incorporate them into the draft report as appropriate.
-  AECOM coordinated with District staff regarding the project as necessary.

End of Report