

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: April 12, 2016

FILE: 42009-025.3.1.3

SUBJECT: Loxahatchee River District
Engineer's Monthly Status Report through March 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
- Visual observation of the center column sludge pipe on Clarifier No. 1 was performed during routine maintenance
- 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

- A pre-construction meeting was held on January 13, 2016 and Kirlin was issued a Notice to Proceed on January 18, 2016
- Kirlin has secured all building and trailer permits and has been mobilizing on-site
- Construction trailers are on-site with FPL electrical hook-ups anticipated for completion by April 15th.

- Progress meetings are being held bi-monthly
- A pre-concrete conference was held on March 18, 2016
- Shop drawings submittals from the contractor are progressing
- Geotechnical work (subsurface vibro-compaction) associated with the filter subgrade has been completed
- Installation of formwork and steel placement for the deep bed filters has commenced with the first concrete pour anticipated for April 14th or 15th

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 finalized design and assisted with negotiations of contract with All Webb's Enterprises to perform MIT work
- Project pre-construction meeting planned for April 6
- MIT work planned for week of April 11

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 MARCH 31, 2016

JUPITER INLET COLONY NEIGHBORHOOD REHABILITATION

- The Pre Construction meeting was conducted at the LRD's office on March 22nd with Giannetti Contracting Corp.
- The Notice to Proceed was issued to the Contractor for April 4th, 2016.
- Shop drawing submittals and reviews are on-going.
- A meeting with the Contractor, LRD and Tequesta was held on March 15th to review staging/storage areas. It was concluded that the Village's plant site will be used by the Contractor.
- A meeting was held on site with FPL on March 15th to confirm that two (2) transformers are now required for the lift station and we confirmed their location with FPL, the District and the Colony.
- Revisions to construction plans to narrow the pavement width per JIC request is ongoing.
- Coordination with the Contractor on a construction schedule and sequence of work is ongoing.
- Coordination to utilize private properties onsite for storage/staging is ongoing.

ARCADIS, Inc.

Kimley-Horn and Associates, Inc.

Sira Prinyavivatkul, PE


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: April 14, 2016

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 April 14, 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. A force main extension from Eagle's Nest will also be incorporated into this project. Upon receipt of the submerged land lease and incorporation of the force main design into the project the plans and specifications will be finalized and the project can be advertised for bidding.

Jupiter Plantation Lift Station #13 Force Main Replacement

- Copies of the contract documents have been provided to District staff for signature by the Contractor and the District. Upon execution of the documents, a preconstruction meeting will be scheduled for the project and a Notice to Proceed will be issued.

Maplewood Lift Station #21 Force Main Extension

- The bid opening was held on April 7, 2016. Four bids were accepted for the project. Upon review of the bids, recommendation was made to award the project to Felix Associates of Florida the low responsive and responsible bidder in the amount of \$149,401.

Turtle Creek Phase I

- On April 6, 2016 we received comments from staff on the 60% design submittal. The comments are currently being addressed. A 90% design submittal will be made to staff for review and comment by the end of the month.



*Loxahatchee River Environmental Control District
Monthly Status Report
April 13, 2016*

Submitted To: Clinton Yerkes, Deputy Director

The following is a summary of work performed by Mathews Consulting, Inc. (MC) on District projects through April 13, 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 was 2-19-16 and the final completion date is anticipated to be 4-24-16. MC reviewed shop drawings, coordinated construction activities with the District, Contractor and PBC, provided periodic inspection services, and worked on close-out documents.

Alternate A1A Subaqueous Force Main Study

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. The final plan was submitted back to the District and approved.

MC has been coordinating with Hazen regarding their project with the Town of Jupiter for a new water main to be attached to the A.1.A. Bridge. A force main will also be added to Hazen's project that will be the selected alternative for the Alternate A.1.A. FM Study. MC submitted the draft Preliminary Design Report for the Alternate A1A Subaqueous Force Main Rehabilitation/ Replacement Study on 4-7-16. The District provided MC comments on the Preliminary Design Report on 4-12-16. MC is working on finalizing the report.

Master Lift Station #1 Rehabilitation

MC finalized and submitted the Draft Preliminary Design Report to the District on 3-14-16. The District provided comments to the Draft Report on 3/28/16. MC is currently preparing responses to the District's comments, where warranted, and finalizing the Preliminary Design Report.

Respectfully Submitted by:

MATHEWS CONSULTING, INC.

Rene L. Mathews, P.E.
President