Key Largo Wastewater Treatment District
Board of Commissioners Meeting
Agenda Item Summary

Meeting Date:

January 20, 2026

Agenda Item Number: M-1

Action Required:

No

Department:

Capital Projects

Sponsor:

Steve Suggs

Subject:

Capital Projects Report - December 2025

Summary:

Mr. Suggs will present the Capital Projects monthly report.

Reviewed / Approved		Financial Impact	Attachments
Operations:	_____	$	1. Monthly Report
Administration:	_____		
Finance:	_____	Funding Source:	
District Counsel:	_____	N/A	
District Clerk:	_____	Budgeted:	
Engineering:	_____	N/A	

Approved By: _____ **Date:** 01/14/2026

General Manager

Key Largo Wastewater Treatment District Capital Projects Report

Including updates through December 2025

Current Capital Projects

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Effluent Filtration Upgrades (LPA0243)	$ 3,043,820.00	$3,343,823.76	$505,000.00	$3,848,823.76
	Engineering Paid to Date	**Construction Paid to Date**	**Balance to Complete (Anticipated)**	**Percentage Complete (Based off current processed pay applications)**
	$470,692.00	$2,882,800.16	$495,331.60	87%

Start of Contract: 5/18/2023
Substantial Completion Date: 6/17/2025 (755 Days) **Project on Schedule?:** No
Current Time Extensions to Contract: 395 Days
Funding Source: FDEP Stewardship (LPA0243)

Project Updates:

- Evoqua submitted their Final Inspection Report Summary on July 18th, attributing the corrosion issues to process/reuse water and stagnant conditions rather than workmanship.
- WEC/KLWTD and Reynolds prepared and sent a response rejecting Evoqua's conclusions.
- KLWTD issued its formal response on Sept 3rd; Evoqua replied on Sept 19th disagreeing with Key Largo's claims but offering to repair and transport the filter at no cost.
- WEC responded on Sept 23rd requesting a repair plan and timeline and instructing that a drain be added to the filter. Evoqua pushed back on Oct 10th citing API 650 compliance, but WEC disputed that claim. After further correspondence, Evoqua agreed to add additional drains to improve complete filter drainage. Updated repair/delivery timeline has been provided for the filter, and it is now projected to be on site the week of January 19th 2026.
- Reynolds, WEC staff, and KLWTD staff did not attend any construction progress meetings.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Collection System Monitoring (LPA0424)	$7,575,677.00	$9,689,555.24	$1,045,000.00	$10,73455.24
	Engineering Paid to Date	**Construction Paid to Date**	**Balance to Complete (Anticipated)**	**Percentage Complete (Based off current processed pay applications)**
	$1,040,431.50	$8,570,131.21	$1,123,992.53	90%

Start of Contract: 7/26/2022
Substantial Completion Date: 4/22/2026 (1,399 days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 609 days
Funding Source: Combination of USACE & FDEP Stewardship (LPA0424)

Project Updates:

- Work is completed in Basins A, B, C, D, F, G, H, I and JK
- Sensor installation is 100% complete (Note: This is only sensors and does not include other aspects of the project).
    - Walkthroughs have been completed for all basins, Pending final completion for only Basin E0 and C.
- Valve rebuilds continued ~ 1,750 rebuilds completed.
- IVC and Flovac notified WEC inspector of completed substantial completion punch list items in early November and WEC completed final punch list walkthrough. Final completion for Basin C is forthcoming after final payment is provided to IVC.
- The balancing change order allowing for the final payment of IVC restoration and Flovac complete installation of the monitoring system was formulated. Change order #7 was approved at the November 18th board meeting allowing for the processing of pay app #26 and #27 and the addition of 3 gateways to improve the reception of the system.
    - The only remaining construction items are the low-pressure and high-pressure monitoring on the grinder pumps and force mains, respectively.
- The Grinder Pump/Low-Pressure monitoring is progressing well with approximately 58 monitoring sensors remaining for installation.
- Flovac began installation of the force main/high-pressure monitoring system. Initial equipment installation and programming were completed in late December; however, subsequent evaluation of the selected programming and devices prompted a change, and revised devices are currently on order.
- The construction progress meeting was held on December 2nd with KLWTD, WEC, Flovac, and Island Villa staff.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Power Conditioning and Electrical Upgrades at the WWTP (LPA0426)	$2,670,450.00	$3,209,145.53	$485,000.00	$3,694,145.53
	Engineering Paid to Date	**Construction Paid to Date**	**Balance to Complete (Anticipated)**	**Percentage Complete (Based off current processed pay applications)**
	$488,744.80	$2,048,254.91	$1,157,145.82	69%

Start of Contract: 1/22/2025
Substantial Completion Date: 07/08/2026 (532 days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 23 days
Funding Source: Combination of FDEP Stewardship (LPA0426) & R&R

Project Updates:

- By the end of December, approximately 99% of all conduits for the project had were installed.
  - Conduit was installed for cameras located around the plant, injection wells pumps, flow meters, turbidity meters, salinity probe display, chlorine analyzers displays, lighting, etc.
- Pedro Falcon installed pull strings in completed conduit runs and began pulling wire. The crew began pulling power wiring from the new PVC junction boxes in various locations to the electrical room using vacuum throughout the month of December.
- Final termination of the wire in the panels located in the second floor MCC room began during the middle of December and will continue into the new year.
- All site-lighting conduit and poles have been installed, and all wiring to the fixtures has been pulled and is ready for final power connection. We are still awaiting the WWTP lighting shutdown to complete the work.
- Airvac is under contract for the programming of the trailer to allow for the pumps on the trailer to shut off when the pressure sensor hits its set point. Trailer programming awaiting replacement control panel PLC to be installed and reprogrammed. PLC was shipped early 2026 and will be programmed when it arrives on site via remote connection.
- During December, technical discussions were held with the manufacturer (Larson) regarding the new voltage regulation transformer. Larson was selected as an approved equal to the Sure volt as UST has been unresponsive to multiple repair requests in previous projects.
- Pedro Falcon, KLWTD and WEC staff attended the construction progress meeting on December 10th with only one meeting being scheduled due to the holidays.

Project	Original Contract Amount	Current Contract Amount (Including Direct Purchases, change orders and Amendments)	Engineering And Other Cost (Anticipated)	Total Project Cost (Anticipated)
Vacuum Stations Odor Control (KG004)	$4,009,141.26	$4,009,141.26	$400,000.00	$4,409,141.26
	Engineering Paid to Date	**Construction Paid to Date**	**Balance to Complete (Anticipated)**	**Percentage Complete (Based off current processed pay applications)**
	$249,028.00	$2,397,015.68	$1,763,097.58	60%

Start of Contract: 03/28/2025
Substantial Completion Date: 02/04/2026 (330 Days) **Project on Schedule?:** Yes
Current Time Extensions to Contract: 0 Days
Funding Source: Combination of FDEP Stewardship (KG004) & R&R

Project Updates:

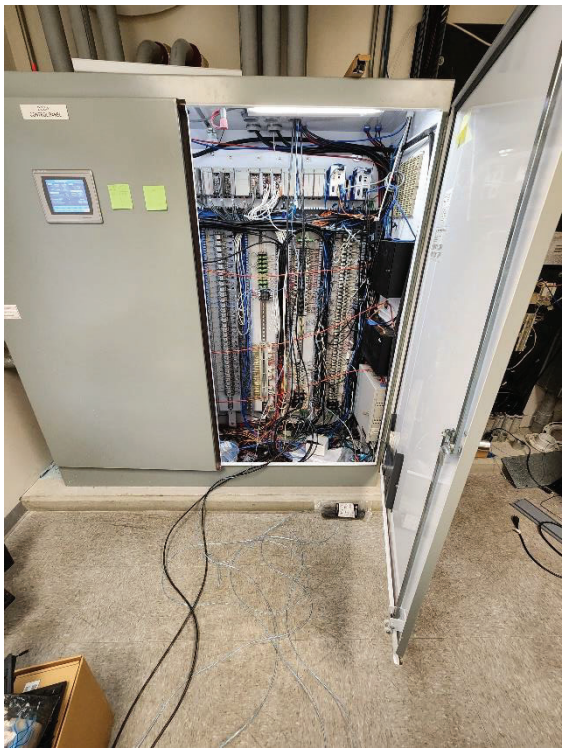
- Vacuum Station A –The Contractor finished final coating of the completed CMU wall. Concrete driveway has been completed. The Contractor is working on floor slab and equipment pad coating and expects completion in the following period.
- Contractor completed coating of concrete slabs at Vacuum Stations D, E, G, and I. Coating work at stations A and J/K in progress. Coating of Odor Control System exposed PVC to begin in the following period.
- As of October 22nd all (6) sets of Odor Control Tanks arrived to their respective Vacuum Station; All tanks have been delivered in acceptable condition. The Odor Control system piping at stations D, E, G, I, and JK has been installed with temporary pipe supports; Contractor expects to have pipe supports installed at each station in the following period.
- Following carbon delivery on December 15th and pipe support delivery on December 19th, Contractor anticipates start-up at all Vacuum Stations late January 2026. KLWTD Acrulog training presented by Heyward FL representative Alex Maas to occur prior to start-up. Following successful start-up, removal of the existing odor control systems and restoration of the facilities to pre-construction conditions is anticipated.
- Belle Construction, KLWTD, and WEC staff attended a progress meeting on December 4th.

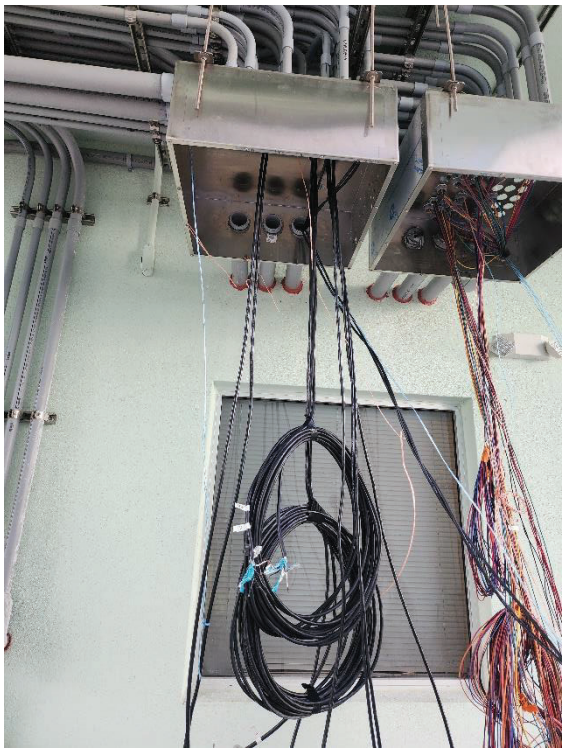
Upcoming Construction Projects

Project	Estimated Data	Status
EQ Tank and Headworks Project **(LPA 0425)**	**Project Cost:** $11,523,215 **Existing State Funds:** $6,570,814 **Design:** 60% **Design Completion:** February 2026 **Construction:** July 2026-July 2028 **Funding Source:** Stewardship and R&R	The EQ Tank and Headworks project includes a new 1.00 MGD pre-equalization tank and a new headworks screening system. The team is coordinating with manufacturers on key components such as odor control, aeration diffusers, screens, and the disposal system. Pricing for several items has been received and is under review as design and equipment selection advance. A permit modification has been submitted to FDEP, and coordination is ongoing to address any RAIs. The District is also working with the Village of Islamorada as they evaluate design changes involving in-line booster pumps and macerators that may increase peak flows and require added screening capacity. Islamorada's hydraulic modeling is complete, and the District is reviewing and coordinating with the Village.
Vacuum Tank Upgrades	**Project Cost:** $12,370,312 **Design:** Preliminary **Design Completion:** April 2026 **Construction:** November 2026 **Funding Source:** Stewardship	Replace existing steel vacuum tanks at all KLWTD vacuum stations with new corrosion-resistant fiberglass reinforced plastic tanks. The project also upgrades foundations for flood resistance and installs new valves, fittings, gaskets, and SCADA controls. These tanks are critical to the wastewater collection system serving over 20,000 residents and seasonal visitors in the Upper Keys, including Islamorada. Design work has begun only for the Vacuum Station E tank.
Pipe Protection Project	**Project Cost:** $2,401,285 **Design:** 60% **Design Completion:** April 2026 **Construction:** March 2026-March 2027 **Funding Source:** Stewardship and R&R	This project rehabilitates 3,400 ft of corroded ductile iron mains at the Key Largo Wastewater Treatment Plant using CIPP lining for larger mains and selective HDPE open-cut replacement for smaller or severely deteriorated sections. WEC has contacted seven vendors and is reviewing CIPP specifications from two of them. A new cathodic protection system with sacrificial anodes will be added to prevent future corrosion. The project also includes new isolation valves and SCADA-integrated flow meters, improving system durability, control, and leak prevention.
Blower Room Modifications Project	**Project Cost:** $250,000 **Design:** Preliminary **Funding Source:** Stewardship	The KLWTD staff has requested the addition of an access door behind blower #4 to better service the blower. Currently, the other blowers must be removed to access blower #4. These modifications will allow for more efficient service of the blowers. This project is currently in the preliminary design phase.

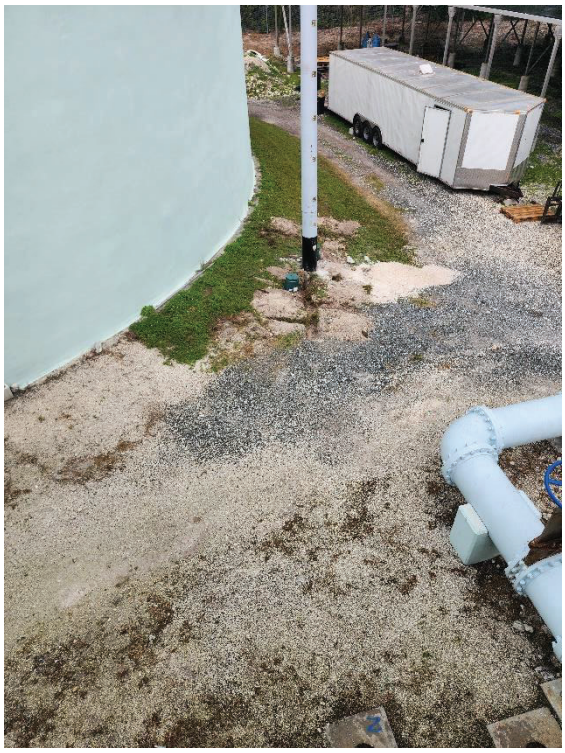
Project Construction Photos

Figures 1 & 2. Installation Of The Frist Force Main Pressure Monitoring Equipment For The Collection System Monitoring Project

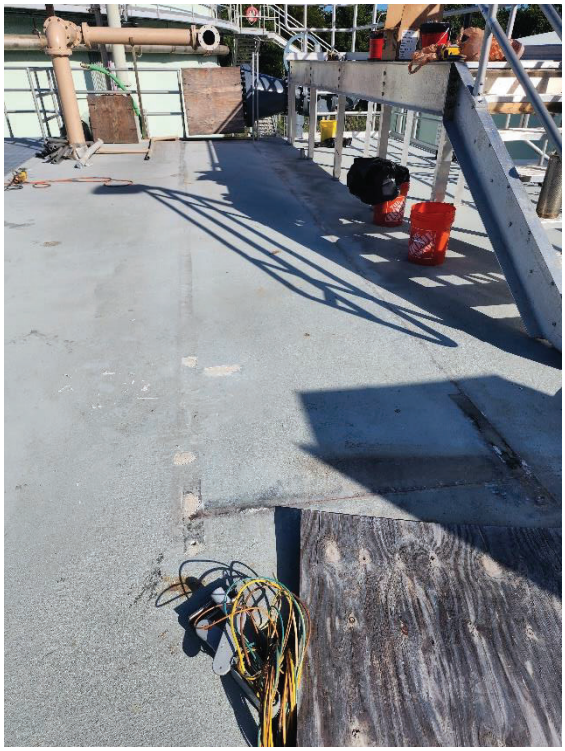
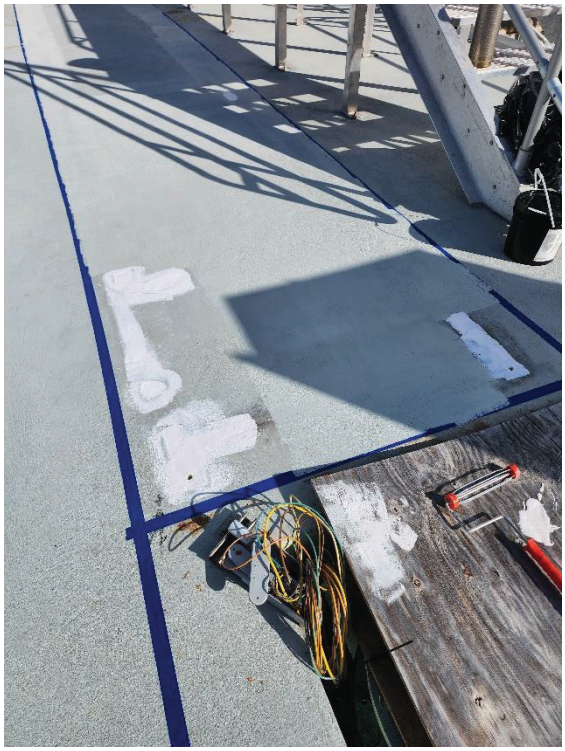




Figures 3 & 4. Routing Wire Through A Junction Box Into DCU1 Via 2.5" PVC Conduit And Wall Penetration




Figures 5 & 6. Installed Copper-Plated Ground Rods and Lightning Protection Equipment

Figures 7 & 8. Reynolds On-Site Repairing The Damage To The Coating On The Filter Platform


Figure 9 & 10. Bollards Installed At Vacuum Stations E & I

Figure 11. Concrete Driveway Installed And Final Coating Applied On Vacuum Station A Building Extension.