

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

Meeting Date:  
June 16, 2026

Agenda Item Number: M-1


Action Required:  
No

Department: Capital Projects      Sponsor: Robert Mather, P.E.

Subject:  
**Capital Projects Report - May 2026**

Summary:  
Mr. Mather will present the Capital Projects monthly report.

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

Approved By:       Date: 6-11-26  
General Manager

# Key Largo Wastewater Treatment District Capital Projects Report

Including updates through May 2026

## 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)
	\$497,119.50	\$2,882,800.16	\$468,904.10	88%

**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.
- APEX, KLWTD and Reynolds prepared and sent a response rejecting Evoqua’s conclusions.
- The filter was delivered to the KLWTD WWTP site on March 13<sup>th</sup> and was set in place and attached to the existing piping network. Electrical work and connections continued throughout March.
- Filter start-up was scheduled for the week of April 27<sup>th</sup> with Evoqua on-site. Fitting spray bar nozzles, testing of control panel and disc drive occurred. During start-up, an issue was identified with the backwash pump motor, which will require repair or replacement before the system can be fully placed into operation.
- Reynolds, APEX staff, and KLWTD staff discussed options for repair or replacement of the backwash pump with the decision of the repair of the unit at a Grundfos facility and a purchase of a new pump as a shelf spare paid for by Evoqua.
- FJ Nugent representative was on site to pull the pump on 5/27. KLWTD and Apex are awaiting the joint inspection report from FJ Nugent and Evoqua as of 6/09.

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	\$1,080,000.00	\$10,769,555.24
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$1,077,540.25	\$8,873,253.46	\$818,761.53	92%

**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 and final completions have been completed for all basins.
- Valve rebuilds have been completed with a total of 3,000 rebuilds.
- IVC and Flovac have completed installation of the vacuum monitoring system across all 2,967 vacuum pits and buffer tanks. Final completion documentation was finalized in January and provided to KLWTD.
- Grinder Pump/Low-Pressure monitoring installation has been completed with all 156 monitoring sensors installed for the project.
- Flovac continued progress on the preparation to install the force main/high-pressure monitoring system.
- Throughout May, KLWTD and Flovac continued coordination on the monitoring device configuration, with KLWTD revising the proposed pressure monitoring locations and configuration approach to better support reliable system monitoring while minimizing potential impacts to the force main in the unlikely event of an incident.
- Flovac’s proposed service agreement underwent review and revision by KLWTD staff, legal counsel, and the Board. The agreement includes monthly reporting, alarm response and tuning, configuration adjustments, software and technical support, discounted Flovac parts, and standard T&M rates for work authorized by KLWTD.
- The construction progress meeting was held on May 5th, 2026 with KLWTD, APEX, and Flovac 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	\$550,000.00	\$3,759,145.53
	Engineering Paid to Date	Construction Paid to Date	Balance to Complete (Anticipated)	Percentage Complete (Based off current processed pay applications)
	\$540,426.30	\$2,504,745.30	\$713,973.93	81%

**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:**

- Exterior conduit installation is 100% complete, providing infrastructure for power, signal, and camera systems serving plant equipment and instrumentation throughout the facility, including the SBR/digester areas, Post EQ tank area, CCC platform, and other site infrastructure.
- Electrical room modifications continued, along with coordination of voltage regulation transformer procurement, ATS and disconnect placement, and wiring.
- The additional conductors pulled from the transformer have been routed through the current ATS and are ready for termination in new ATS during the planned shutdown on 6/10.
- Construction activities continued to focus on wire pulling, device-by-device re-routing, and terminations, including digital and analog control wiring into DCU1 and the second-floor MCC/electrical room cabinets for equipment such as the decanters and waste sludge pumps.
- Inspection reports continued to document open items and quality-control items, including conduit fitting adjustments at select GFCI locations and surface cleanup on walkways.
- Pedro Falcon continued work on extending the lightning protection system at the west end of the wastewater treatment plant to allow for compliance with UL certifications.
- The SureVolt unit is currently in production at the factory, with a tentative delivery date of mid-July.
- Pedro Falcon, KLWTD, and APEX staff attended construction progress meetings on May 13th and May 27th, 2026.

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)
	\$290,905.50	\$2,803,727.18	\$1,314,508.58	70%

**Start of Contract:** 03/28/2025  
**Substantial Completion Date:** 08/18/2026 (525 Days)      **Project on Schedule?:** No  
**Current Time Extensions to Contract:** 195 Days  
**Funding Source:** Combination of FDEP Stewardship (KG004) & R&R

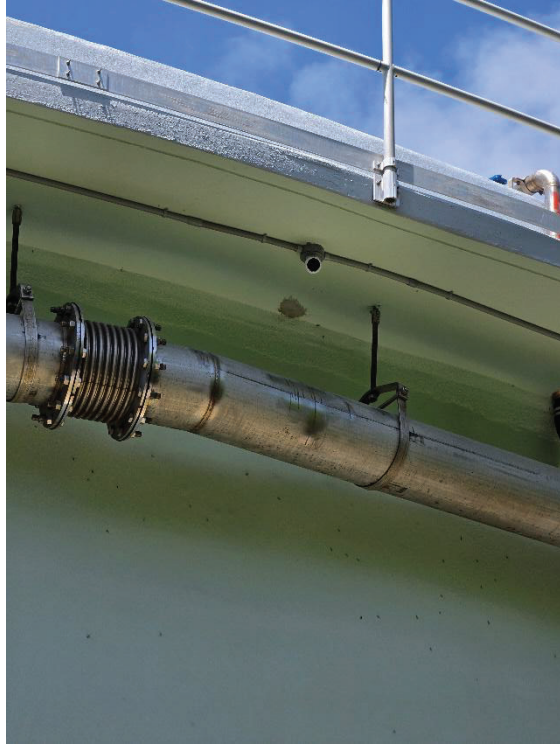
**Project Updates:**

- As of October 22<sup>nd</sup> all (6) sets of Odor Control Tanks arrived at their respective vacuum station; All tanks have been delivered in acceptable condition.
- Final connections have been completed at all vacuum stations. The new Odor Control systems are operational at all vacuum stations.
- Vacuum Station E effluent odor line drainage has been installed.
- Contractor has completed removal of existing Odor Control Systems.
- Contractor is continuing to work on the site restoration including swale restoration, installation of sod and pea rock and touch up of interior areas.
- Contractor completed coating of concrete slabs at Vacuum Stations A, D, E, G, I, and J/K. Touch up coating work is in progress.
- A time extension of 195 days has been granted via change order to allow for sufficient time to receive and install the new generators. Generators are expected to arrive at Vacuum Station A and D by the end of June 2026.
- Contractor followed up with Cummins regarding the generator delivery schedule. Cummins has confirmed that the generators and enclosures remain on track for delivery by the end of June 2026.
- Inspections were completed by Apex at all vacuum stations throughout April, and an outstanding items list was provided to Belle Construction on April 28<sup>th</sup> by Apex. The list details items to be addressed by Belle Construction, such as finishing coatings, asphalt patch work, and installation of ports.
- Contractor has continued to address the outstanding items list. The remaining item to be completed is installation of the H<sub>2</sub>S meter ports at each vacuum station.
- Belle Construction, KLWTD, and APEX staff attended a progress meeting on May 7<sup>th</sup> and May 21<sup>st</sup>, 2026.

## Upcoming Construction Projects

Project	Estimated Data	Status
<b>EQ Tanks and Headworks Project</b>  <b>(LPA 0425)</b>	<b>Project Cost:</b> \$13,480,320 <b>Existing State Funds:</b> \$6,547,280 <b>Design: 90%</b> <b>Design Completion:</b> August 2026 <b>Construction:</b> October 2026 – October 2028 <b>Funding Source:</b> Stewardship and SLR	The EQ Tanks and Headworks Project includes two new 500k MGD pre-equalization tanks and a new headworks screening system. The 60% design plans have been provided to KLWTD and Islamorada for review on 4/10, with work on the 90% plan set underway. Apex met with KLWTD staff for a design review meeting on 4/21 to discuss key project considerations. Apex has received review comments from Islamorada’s consultant and will be holding a meeting to discuss the comments in early June. The team is coordinating with manufacturers on key components such as odor control, aeration diffusers, screens, and the disposal system. The team has been coordinating with UES in May regarding the geotechnical report and foundation recommendations. 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 have released RFP 26-05 for the NPK Booster Pump Station Upgrades. Islamorada has completed SmartBall deployment and transient pressure surge monitors were placed on the conveyance force main. Apex has not received the raw data yet. Apex is continuing progress toward the 90% set with updates to the structural, electrical, and P&ID sheets.
<b>Vacuum Tank Upgrades</b>	<b>Project Cost:</b> \$12,370,312 <b>Design: 60%</b> <b>Design Completion:</b> August 2026 <b>Construction:</b> October 2026 <b>Funding Source:</b> Stewardship and SLR	This project includes replacement of 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. Design work is in process for Vacuum Station A and E tanks. The Vacuum Station E design plans are nearing the 60% completion milestone. With input from KLWTD staff, the proposed location of the Vacuum Station E replacement tank is being carefully evaluated and selected to help maintain vacuum pressure in the far reaches of the E and F service areas during the tank replacement process.
<b>Pipe Protection Project</b>	<b>Project Cost:</b> \$2,401,285 <b>Design: 60%</b> <b>Design Completion:</b> August 2026 <b>Construction:</b> Oct 2026 - Oct 2027 <b>Funding Source:</b> Stewardship and SLR	This project rehabilitates ~4,200 linear ft of corroded ductile iron pipes 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. KLWTD staff have exposed select subgrade pipes for corrosion analysis and field survey verification. Design work is in progress for pipe rehabilitation and replacement including CIPP lining, cathodic protection, and HDPE open-cut replacement. The project also includes asphalt work, replacement of the PVC fire main, new isolation valves and SCADA-integrated flow meters and salinity meters on NTM & STM, improving system control.

## Project Construction Photos



**Figures 1 & 2: New Cameras Mounted to the Underside of SBR Tank 3 walkway**



**Figures 3 & 4: New Cameras and Conduit installed on all Tanks and Equipment Pads**



**Figures 5 & 6: New Drain lines for Evoqua Filter Installed, Tested and Painted by Reynolds**



**Figure 7: Conductors being routed to new ATS in preparation for the ATS Swap**