

AGENDA

Pollution Control Board

February 19, 2026, 9:30 A.M.

*District Environmental Sciences Conference Room
2191 South Service Ln., Lake Buena Vista, Florida 32830*

- **CALL TO ORDER**
- **APPROVAL OF MEETING MINUTES**
- **RCES UPDATE**
- **ENVIRONMENTAL SCIENCES UPDATE**
 - **MACROINVERTEBRATE BIOLOGY PRESENTATION**
 - **BIENNIAL ASSESSMENT UPDATE**
- **DISCUSSION**
- **SET MEETING SCHEDULE**
- **ADJOURN**

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Central Florida Tourism Oversight District - 106085
PO Box 10170
Orlando, FL 32830-0170

**State Of Florida
County Of Orange**

Before the undersigned authority personally appeared Rose Williams, who on oath says that he or she is a duly authorized representative of the ORLANDO SENTINEL, a DAILY newspaper published in Orange/Seminole-Lake-Osceola-Volusia County, Florida; that the attached copy of advertisement, being a Legal Notice in:

The matter of MEETING NOTICE Was published in said newspaper by print in the issues of, or by publication on the newspaper's website, if authorized on 4 Feb 2026.

Affiant further says that the newspaper complies with all legal requirements for publication in Chapter 50, Florida Statutes.



Rose Williams

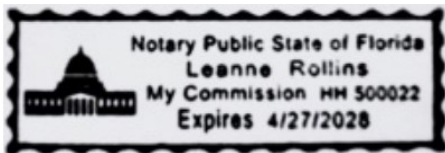
Signature of Affiant

Name of Affiant

Sworn to and subscribed before me on 4 Feb 2026,
by above Affiant, who is personally known to me (X) or who has produced identification ().



Signature of Notary Public



Name of Notary, Typed, Printed, or Stamped

24844

MEETING NOTICE

YOU WILL PLEASE TAKE NOTICE

on Thursday,
February 19, 2026 at 9:30 a.m., the
Pollution Control Board of the
Central Florida Tourism Oversight
District will meet in regular
session at the Environmental Sciences
Laboratory, 2191 South
Service Lane, Lake Buena Vista,
Florida 32830. At that time, the
Board will discuss such business as
may properly come before

them.

By: Doreen Johnson
24844 2/04/2026

24844

Central Florida Tourism Oversight District

1900 Hotel Plaza Boulevard
Lake Buena Vista, Florida 32830

www.oversightdistrict.org

POLLUTION CONTROL BOARD REGULAR MEETING



Grace Pierce, Chair
Andrea Jernigan-Gwinn, Member
Jay Exum, Member
Alan Oyler, Member
Eddie Snell, Member
Wendy Duncan, Pollution Control Officer
Kimberly Lawrence, Pollution Control Officer

The Pollution Control Board (PCB) of the Central Florida Tourism Oversight District (CFTOD) held their regularly scheduled Board meeting on Tuesday, 10 September 2025, at the CFTOD Environmental Sciences Facility, 2191 S Service Lane, Lake Buena Vista, Florida 32830. The following attendees were present:

Board & Speakers

- Board Chair Grace Pierce
- Board Members Jay Exum, Andrea Jernigan-Gwinn, Alan Oyler, and Eddie Snell
- Environmental Sciences Director & Pollution Control Officer Wendy Duncan
- Environmental Sciences Manager & Pollution Control Officer Kimberly Lawrence
- Reedy Creek Energy Services (RCES) Engineer Steven Russo
- District Administration District Counsel Roy Payne
- Environmental Sciences Pollution Control Coordinator Sean Dallas

Other Staff Present

Stephanie Kopelousos, District Administrator; Vanessa Heiser, Paralegal; John Artimovich, RCES Senior Regulatory Compliance Professional; Weldon Lavigne, Manager of Laboratory Operations; Matthew Thompson, Environmental Specialist III- Pollution Control; Jose Garcia, RCES Senior Regulatory Compliance Professional.

CALL TO ORDER

Chair Pierce called the meeting to order at 09:39 am.

SUNSHINE AND PUBLIC RECORD LAW

District Counsel Roy Payne delivered a presentation to the Board on the Florida Sunshine Law and Public Records Law. During the presentation Board Member Oyler requested clarification regarding timing for public comments. Chair Pierce then asked for an explanation regarding the distinction between Board and staff memos and responses. Counsel Payne addressed these questions and concluded by offering to provide a follow-up presentation on the gift process.

PUBLIC NOTICE AND WELCOME NEW MEMBER

Chair Pierce noted that the meeting was published in the Orlando Sentinel and welcomed new Board Member Eddie Snell.

APPROVAL OF MEETING MINUTES

Chair Pierce called for a review and discussion of the meeting minutes from 20 February 2025. With no changes presented, Board Member Exum made a motion to approve the minutes, and Member Oyler seconded the motion. By unanimous vote, the minutes were approved as written.

RCES UPDATES

Engineer Steven Russo reviewed the operational activities of RCES (summary “Reedy Creek Energy Services Report to CFTOD Pollution Control Board, 10 September 2025”). Engineer Russo provided an update on the Central Florida Water Initiative (CFWI) as requested from the past meeting. Board Member Oyler inquired about PFAS regulations and testing in biosolids. Senior Regulatory Compliance Specialist Jose Garcia stated that no PFAS testing is currently being conducted on biosolids. Pollution Control Officer Wendy Duncan provided a brief history of prior testing performed at the wastewater plant and on potable water. In response, Board Member Oyler recommended that the sludge from the wastewater plant be tested, citing potential regulations from Florida Department of Environmental Protections (FDEP).

Board Member Exum asked Engineer Russo about infrastructure concerns and potential environmental impacts. Engineer Russo updated the Board on the proactive measures RCES is implementing to minimize risk and prioritize sectional upgrades. Board Member Exum followed up with a question about potential leaching. Engineer Russo, along Board Member Oyler, responded that the likelihood of leaching would be minimal due to several mitigating factors.

ENVIRONMENTAL SCIENCES UPDATE

Coordinator Sean Dallas presented information covering the 1st and 2nd quarters of 2025. Board Member Exum inquired about the potential environmental impacts related to construction near the western property boundary. Pollution Control Officer Kimberly Lawrence explained the possible effects on the area and shared observations District staff have already made. Board Member Exum requested a more in-depth look at the biological data of the area in a future meeting. Board Member Andrea Jernigan-Gwinn asked about any future impacts that Environmental Sciences foresees. Pollution Control Officer Lawrence and Coordinator Dallas provided their insights on potential areas of concern.

DISCUSSION

A discussion was held regarding the frequency of Board meetings. Chair Pierce suggested the current schedule is sufficient, with Board Member Oyler expressing agreement. The Pollution Control Board concluded that holding two meetings per year is adequate for now.

Board Member Oyler requested tours of areas identified by District staff as points of interest. District Administrator Stephanie Kopelousos provided guidance on the appropriate process for scheduling such visits and advised Board members will need to tour individually.

Board Member Oyler requested guidance from District Counsel Payne on potential or perceived conflicts that may arise when engaging with local partners. District Counsel Payne provided guidance

on how to navigate those interactions appropriately.

NEXT MEETING

The next meeting is scheduled for 19 February 2026.

ADJOURNMENT

With no further business, Chair Pierce called for a motion to adjourn at 11:17 a.m.

SD

Reedy Creek Energy Services Report to CFTOD Pollution Control Board

February 19, 2026

WASTEWATER SYSTEM

- **Water Resource Recovery Facility (WRRF) Performance**
 - Average Daily Flow for the time period between July 1, 2025 and December 31, 2025 was **14.054** MGD. The permitted capacity of the plant is 20 MGD.
 - Average effluent Total Nitrogen was **1.70 mg/L** and average effluent Total Phosphorous was **0.16 mg/L** for this period, both well below permitted limits of 6.0 mg/L and 1 mg/L, respectively (See Attachment 1).
 - In compliance with all other permit limits.
 - All monthly, quarterly, and annual monitoring reports have been submitted as required.
 - Due to mechanical problems at the Hamlin facility, 1.0 MG was received from Orange County on July 28, 2025

- **Wastewater Collection System**
 - Two (2) reportable overflows of wastewater and reclaimed water during the prior six months (July 1, 2025 through December 31, 2025).
 - September 21, 2025. Approximately 1,300 gallons of untreated wastewater back flowed due to an obstruction in an 8-inch gravity sanitary sewer line. The overflow moved through a 4-inch lateral line serving a solid waste compactor pad located in a loading dock/service yard at a hotel in Hotel Plaza Blvd. The wastewater discharged into the parking lot and entered a storm drain at the southwest corner of the lot. The storm drain discharges into a retention pond west of the property. The gravity main was jet rodded and the previously obstructed line was placed back in service. A vacuum truck was used to collect the discharge from the detention pond. Approximately 3000 gallons of mixed water were recovered. All surfaces in the compactor pad and parking lot were disinfected and the rinse water collected. No waterbodies were impacted outside of the detention pond. The incident was reported to the State Watch Office and to the FDEP Central District Office on September 22, 2025.
 - December 11, 2025. Approximately 550 gallons of treated domestic wastewater (reclaimed) flowed from a broken valve on a 2-inch reclaimed water lateral service line. The valve was isolated within the hour. The reclaimed line was placed back in service upon completion of the valve repairs. During the repairs, an adjacent sewer line was cracked by the trench box resulting in a release of less than 10 gallons of wastewater into the repair area. Cleanup was immediate and contained to the excavation site. A vacuum truck was used to excavate around the valve and to collect some of the released reclaimed water. The reclaimed discharge affected the grassy area and the retention pond adjacent to the valve. All water that could not be recovered was contained onsite and subsequently infiltrated into the ground. Due to the nature and volume of the release, the incident was not reported to The State Watch Office, however, the incident was verbally reported to the FDEP Central District Office on December 12, 2025. A 5-day follow-up report was submitted on December 15, 2025.

Reedy Creek Energy Services Report to CFTOD Pollution Control Board

February 19, 2026

- **Industrial Pretreatment**

- Permitted users include the four (4) laundry facilities and the co-gen facility in the North Service Area, EPCOT Chiller plant and Disney's Hollywood Studios Chiller Plant.
- On September 26, 2025, FDEP issued a Compliance Assistance Offer addressing deficiencies found in the Industrial Pretreatment Program inspection conducted on September 9, 2025.
- FDEP required updates to the languages stated in the Industrial Users (IU) pretreatment permits, The Enforcement Response Plan (ERP), The Sewer Use Ordinance (SUO) and the three (3) Multijurisdictional Agreements (MJA).
- RCES has retained the services of Carollo Engineers for all items that were outlined with FDEP's evaluation.

- **Reclaimed Water System**

- Demand within the public access reuse system averaged 5.804 MGD for the time period between July 1, 2025 and December 31, 2025. This accounts for 41.3% of the total effluent with the balance going to the RIBs for groundwater recharge.

WATER SYSTEM

- **System Performance**

- Consumption for the time period between July 1, 2025 and December 31, 2025 averaged 17.33 MGD. WUP allocation is 22.2 MGD. This average flow represents 78.2 % of the WUP allocation (See Attachment 2)
- RCES is in the process of performing condition assessments on the eight (8) potable wells in the system. Wells 6 and 9 were included in the first phase. Both wells 6 and 9 have been refurbished and are back in service. Phase 2 will include wells 10 and 16. Phase 2 of the well rehab has commenced and Carollo is currently drafting the scope of work needed to solicit a well contractor.
- FDEP Central District did not conduct any inspections of CFTOD Pump Stations or Wells during this reportion period.
- All required reports to FDEP and SFWMD have been submitted on time.

- **Water Use Permit**

- No issues to report.
- The current WUP expires in July 2027.

- **STOPR Group, Alternative Water Supply, and CFWI rulemaking**

- Carollo Engineers has completed phase II of an IPR feasibility study. This report will be used to determine future costs. More details will be known about the timeline for future implementation of the IPR project once the WUP renewal process progresses further, most likely in April of 2026.
- RCES continues to meet monthly with the STOPR group. Orange County has received a 10-year conservation extension of their Water Use Permit. Polk County intends to file for a conservation extension. All members of STOPR will work to ensure that the terms of the required long-term monitoring in each

**Reedy Creek Energy Services Report to CFTOD Pollution Control Board
February 19, 2026**

WUP is in alignment, as has been in years past, so the group can continue to conduct cooperative monitoring.

SOLID WASTE

- The Food Waste Transfer Station (FWTS) is nearly complete. It is anticipated that capacity at the solid waste transfer station tipping floor will be increased once food waste processing operations are relocated.
- **Permitting**
 - FDEP Central District did not conduct any inspections of CFTOD solid waste transfer station during the reporting period.
 - FDACS Weighing and Measuring Device Permit WM21321 for the CFTOD Solid Waste Transfer Station (SWTS) was renewed on 08/18/23 with an expiration date of 09/06/25.
 - All required reports submitted to agencies.

- **Waste Diversion**

Calendar Half-Year 7/1/2025 - 12/31/2025			
	Collected (Tons)	Recycled (Tons)	Recycle (%)
Class I	33,732.99	0	0
Food Waste	9,001.82	9,001.82	100
Landscape	9,820.95	9,820.95	100
Baled Cardboard	5,282.03	5,282.03	100
Mixed Recycle	3,282.24	1,838.05	56
Manure	1,941.93	1,941.93	100
Class 3	1,873.24	0	0
Wood	465.26	465.26	100
Loose Cardboard	196.64	196.64	100
Tires	45.41	45.41	100
C&D	15,510.56	6,092.43	39.0
Total	81,153.07	34,684.52	42.7

Reedy Creek Energy Services Report to CFTOD Pollution Control Board

February 19, 2026

AIR EMISSIONS

- The first semi-annual monitoring report for CFTOD addressing the monitoring period of January 1, 2025 to June 30, 2025 was submitted on August 28, 2025. Based on a review of all the information collected during this operating period, it was determined that this facility was in compliance with all requirements of the Title V Air Operation Permit for that monitoring period.
- Due to the deteriorating condition of Boiler #3, a temporary boiler (Boiler #5) was acquired to serve as the main source of hot water to the WDW Magic Kingdom Complex. Boiler #5 is permitted as a temporary/interim unit with an anticipated operation span of about two years until a new modular boiler is commissioned. Boiler #3 has remained in the permit as a backup to Boiler #5.
- As Boiler #3 reached the end of its serviceable life, a decision was made to rent a second boiler (Boiler #6) to serve as a backup for Boiler #5. Boiler #6 was placed in service on December 17, 2025. It will be incorporated into the air permit if it remains in service beyond December 2026. Boiler #3 to be decommissioned in the next few months.
- During the reporting Period, FDEP Central District did not conduct any inspections of Air Emission Sources.

STORAGE TANKS

- On May 9, 2025, during a maintenance inspection of the Convault fuel tank at Pump Station B, the inner tank was breached during integrity testing. No fuel was released to the environment but the presence of fuel in the interstice space of the secondary containment rendered the tank unusable. The tank was emptied on June 1, 2025 and placed out of service. Delivery and compliance testing of a new tank was completed on October 29, 2025. The fuel line installation was completed on December 16, 2025.
- CEP Tank #2 was drained and placed out of service on July 28, 2025. CEP Tank #3 was drained and placed out of service on December 3, 2025. Both Tanks 2 and 3 and all above grade fuel lines were cleaned the week of December 15, 2025. The tanks will be closed in place and all of the above-grade fuel lines from the tanks to the first forwarding pump will be removed. The underground portion of the fuel lines from the forwarding pumps to the Combustion Turbine and to Boiler #3 will undergo integrity testing. Upon successful test results, the fuel lines will be abandoned in place and filled with approved foam. Tank demolition and site redevelopment to take place sometime in 2026.

CHEMICAL RELEASES

- There were no regulated chemicals releases during the reporting period (July 1, 2025 through December 31, 2025).

Month	Effluent (MGD)	HP TWAS (Dry Tons)	Reuse (MGD)	RIBs (MGD)	Inf. CBODf (mg/l)	Eff. CBOD5 (mg/l)	% Rem.	Inf. TSS (mg/l)	Eff. TSS (mg/l)	% Rem.	Inf. T.N. (mg/l)	Eff. T.N. (mg/l)	% Rem.	Inf. T.P. (mg/l)	Eff. T.P. (mg/l)	% Rem.	Inf. pH	Eff. pH
Jul-25	14.707	0	5.842	8.865	209	0.9	99.50%	184	1	99.50%	44.75	1.87	95.80%	5.24	0.17	96.80%	7.06	7.72
Aug-25	14.286	0	5.388	8.853	195	1.0	99.50%	184	1	99.50%	38.6	1.79	95.40%	4.67	0.19	96.00%	6.84	7.69
Sep-25	14.221	0	5.63	8.655	204	1.0	99.50%	203	1	99.50%	39.06	1.58	96.00%	4.66	0.18	96.20%	7.25	7.57
Oct-25	14.18	0	5.722	8.457	210	0.8	99.60%	206	1	99.50%	40.98	1.47	96.40%	4.96	0.15	97.00%	7.31	7.61
Nov-25	13.411	0	6.912	6.499	242	0.8	99.70%	237	1	99.60%	44.65	1.65	96.30%	5.34	0.13	97.50%	7.32	7.66
Dec-25	13.516	0	5.329	8.198	218	0.7	99.70%	223	1	99.50%	44.78	1.84	95.90%	5.24	0.15	97.10%	7.39	7.69
Annual Avg.	14.054	0	5.804	8.255	213	0.9	99.58%	206	1	99.52%	42.14	1.70	95.97%	5.018	0.16	96.77%	7.20	7.66
Permit Lim.	20	(Ann. Total)	10	12.5		5			5			6		1			6.0 to 8.5	

Attachment 2 - Water Usage Report Data Jul-Dec 2025							Total MG	MGD AADF
Potable Wells	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25		
2, 2A, 17 (Pumping Station "B")	172.060	158.970	160.350	158.820	157.995	166.160	974.355	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
6 and 16 (Pumping Station "C")	117.302	115.998	105.048	109.543	106.99	108.139	663.020	
9, 10 (Pumping Station "A")	139.649	132.059	128.304	132.185	131.383	128.306	791.886	
18, 19 (Pumping Station "D")	124.398	128.313	121.707	123.312	128.958	133.673	760.361	
Subtotal Potable Water	553.409	535.340	515.409	523.860	525.326	536.278	3189.622	17.33
Irrigation Wells								
LBV Golf Course Well #1 (9 th hole)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
LBV Golf Course Well #3 (12 th hole)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Well #20 - Tree Farm Irrigation	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Well #13 - Reclaim Backup System	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Well #14 - Reclaim Backup System	0.000	0.000	0.000	0.000	0.000	0.010	0.010	
Subtotal Ground Water	553.409	535.340	515.409	523.860	525.326	536.288	3189.632	17.33
Surface Water								
Palm/Magnolia Surface Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
LBV Surface Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Subtotal Surface Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Total	553.409	535.340	515.409	523.860	525.326	536.288	3,189.632	17.33
Average Day Consumptive Use (MGD)	17.852	17.269	17.180	16.899	17.511	17.300	3,189.632	Annualized Value
	78.1%							



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: August 12, 2025

Subject: Monthly Report for July 2025

The following is a summary of the activities completed by Environmental Sciences in the month of July 2025:

Regulatory Activities – sampling and testing

- 442 sites were visited
- 1,628 samples were collected or delivered
- 3,849 tests were assigned
- Non-Potable Water Proficiency Testing samples for Microbiology were ordered, received, analyzed, and results were submitted for evaluation
- Non-Potable Water Proficiency Testing samples for Chemistry for the analyte Color were received and analyzed

Mosquitoes Monitoring

- 109 traps were set for the month
- 5,880 mosquitoes were collected and identified
- 210 blood sera samples were submitted for testing
- Numerous days of excessive heat resulted in decreased mosquito counts despite consistent rainfall throughout the month.

Meetings and Educational Sessions Participation

- Attended virtual webinar on the Reclaiming Water Program hosted by Seminole County Parks and Recreation Department UF/IFAS Extension Services
- Attended the Stormwater Operator Level II virtual training
- Met with new Pollution Control Board Member Eddie Snell and conducted a lab tour

CC: Pollution Control Board



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: September 26, 2025

Subject: Monthly Report for August 2025

The following is a summary of the activities completed by Environmental Sciences in the month of August 2025:

Regulatory Activities – sampling and testing

- 422 sites were visited
- 1,688 samples were collected or delivered
- 3,960 tests were assigned
- Results were received for the Non-Potable Water Proficiency Testing samples for Microbiology with a 100% successful completion
- Non-Potable Water Proficiency Testing samples for Chemistry for the analyte Color were submitted for evaluation and results were received with a 100% successful completion

Mosquitoes Monitoring

- 111 traps were set for the month
- 3,365 mosquitoes were collected and identified
- 215 blood sera samples were submitted for testing

- Mosquito populations remained relatively low despite a slight increase in rainfall

Meetings and Educational Sessions Participation

- Attended the TNI Environmental measurement Symposium in Saint Louis, Missouri
- Delivered the "Recycling Right" training Power Point presentation across 7 CFTOD departments throughout the month
- Attended the FLMS workshop and meeting on Aquatic Plant Identification in Duck Key, FL
- Attended a virtual FSEA Ethics and Data Integrity Workshop
- Attended the 36th FLMS Symposium on Lake Management, Nutrient Reduction and Vegetation Monitoring

CC: Pollution Control Board



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: October 15, 2025

Subject: Monthly Report for September 2025

The following is a summary of the activities completed by Environmental Sciences in the month of September 2025:

Regulatory Activities – sampling and testing

- 404 sites were visited
- 1,193 samples were collected or delivered
- 2,996 tests were assigned
- Results for the Non-Potable Water Proficiency Testing samples for Chemistry for the analyte Color were received with a 100% successful completion
- Samples for Potable Water Proficiency Testing for Microbiology were received, analyzed and results were submitted for evaluation

Mosquitoes Monitoring

- 122 traps were set for the month
- 18,293 mosquitoes were collected and identified
- 212 blood samples were submitted for testing

- Mosquito populations increased due to heavy rainstorms resulting in areas with standing water

Meetings and Educational Sessions Participation

- Attended the Invasive Species virtual training
- Hosted the Pollution Control Board Meeting at CFTOD Environmental Sciences
- Attended the Osceola County Local Mitigation Strategy Working Group virtual meeting

Anniversaries

- Roxanne Huff – Chemist II – New Hire
- Lea Obendorf – Fall Intern

CC: Pollution Control Board



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: November 19, 2025

Subject: Monthly Report for October 2025

The following is a summary of the activities completed by Environmental Sciences in the month of October 2025:

Regulatory Activities – sampling and testing

- 404 sites were visited
- 1,312 samples were collected or delivered
- 3,599 tests were assigned
- Results for the Potable Water Microbiology Proficiency Testing study were received with a 100% successful completion
- Samples for the Solid and Chemical Materials Proficiency Testing in the categories of Metals and Inorganic Chemistry were received

Mosquitoes Monitoring

- 120 traps were set for the month
- 10,317 mosquitoes were collected and identified
- 210 blood samples were submitted for testing
- Mosquito populations decreased due to limited rainfall and cooler fall temperatures

Meetings and Educational Sessions Participation

- Attended the virtual TNI Training - Back to Basics for Analysts: lab Skills and Techniques
- Attended the Osceola Local Mitigation Strategy Public Involvement Subcommittee Meeting at the Osceola County EOC
- Attended the virtual METRA Self-Assessment and Dissolution Plan meeting and discussion
- Attended the annual Florida Aquatic Plant Management Society (FAPMS) conference in St. Petersburg, FL
- Hosted three Field Experience Opportunity events for individual Pollution Control Board members on CFTOD property
- Attended the Osceola County Local Mitigation Strategy Working Group - Public Involvement Subcommittee Meeting at the Osceola County EOC
- Participated in the first ever Disney Experiences Pest Management Summit by hosting summit visitors at the CFTOD Environmental Sciences Mosquito Biology Lab
- Participated in the Mad Scientist Day R.L Stevenson Elementary School of the Arts Education outreach event in Merritt Island, FL

CC: Pollution Control Board



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: December 24, 2025

Subject: Monthly Report for November 2025

The following is a summary of the activities completed by Environmental Sciences in the month of November 2025:

Regulatory Activities – sampling and testing

- 393 sites were visited
- 1,300 samples were collected or delivered
- 3,246 tests were assigned
- Samples for the Solid and Chemical Materials Proficiency Testing in the categories of Metals and Inorganic Chemistry were analyzed, and results were submitted for evaluation

Mosquitoes Monitoring

- 84 traps were set for the month
- 3,797 mosquitoes were collected and identified
- 162 blood samples were submitted for testing
- Mosquito populations decreased due to multiple cold fronts and limited rainfall

Meetings and Educational Sessions Participation

- Attended the Florida First Detector: Invasive Hornets, Wasps, Ants webinar
- Participated in a METRA Dissolution Discussion virtual meeting
- Participated in the Sunridge Middle School Teach In (Career Day) event in Winter Garden, FL
- Attended the FSEA Fall Conference in Orlando, FL
- Attended the FDEP Biennial Assessment Webinar
- Participated in the Laureate Park Elementary School Career Day event in Orlando, FL
- Attended the SFWMD New Water Quality Performance Standards for ERPs virtual public meeting
- Attended the Florida Association of Aquatic Biologists Annual Meeting in Wekiva Springs State Park, FL

Anniversaries

- Wendy Duncan, Director – 20 years

CC: Pollution Control Board



1900 Hotel Plaza Blvd., Lake Buena Vista, FL 32830

MEMORANDUM

To: Stephanie Kopelousos

From: Wendy R. Duncan

Date: February 3, 2026

Subject: Monthly Report for December 2025

The following is a summary of the activities completed by Environmental Sciences in the month of December 2025:

Regulatory Activities – sampling and testing

- 315 sites were visited
- 1,084 samples were collected or delivered
- 2,899 tests were assigned
- Non-Potable Water Proficiency Testing samples for the General Chemistry and Metals analyses were received

Mosquitoes Monitoring

- 148 traps were set for the month
- 6,385 mosquitoes were collected and identified
- 152 blood samples were submitted for testing
- Mosquito populations remained low during the month due to continuing cooler temperatures and average winter rainfall

Meetings and Educational Sessions Participation

- Attended the 2025 Florida Association of Aquatic Biologists Annual Meeting in Wekiva Springs, FL
- Attended the Florida Stormwater Conference Winter Meeting in Kissimmee, FL
- Attended the Osceola County Local Mitigation Strategy Working Group meeting at the Osceola County EOC
- Participated as a Science Fair Judge at Robert L. Stevenson Elementary School of the Arts in Merritt Island, FL
- Attended the EcoVenger webinar Spatial Repellency: An Important Strategy for Mosquito Control

Anniversaries

- Amanda Barfield, Chemist IV – 5 years

CC: Pollution Control Board



Pollution Control Quarterly Report

Third Quarter 2025 (July-September)

General Information

During the third quarter (Q3) of 2025, 3,697 samples were collected or delivered from 827 sample sites. A total of 25,075 tests were performed, of which 13,576 or 54.1% of the total tests were from surface waters.

Water Quality

Surface water quality within CFTOD is measured according to criteria in Chapter 62-302 of the Florida Administrative Code (FAC) and Numeric Nutrient Criteria specifically for Class III recreational waters. The Reedy Creek watershed includes a large wetland system, which typically has low alkalinity, dissolved oxygen and pH. These parameters may fall outside Chapter 62 FAC water quality criteria, but are not indicative of impairment or pollution.

Routine Monitoring

Environmental Sciences monitored a number of sample locations for permit compliance as well as routine monitoring of surface water, stormwater outfalls and inflows to property.

- Swimming beaches and areas open to the public met FAC guidelines for bathing places for all locations tested.
- Out of the 13,576 surface water tests performed, 98.5% of tests analyzed met the FAC 62-302 and Numeric Nutrient Criteria guidelines with the following few exceptions (see maps for additional information):
 - **Nitrogen** results were elevated at two locations:
 - 1 Celebration Village outfall; and
 - 1 location at the discharge point of the S-401 structure.
 - Elevated **phosphorus** results were present at the following two locations:
 - 1 location at a ditch SR 535; and
 - 1 Celebration Village outfall.
 - **E.coli** exceedances based on a single sample occurred at six sites (seven exceedances) during the third quarter:
 - 1 Celebration Village outfall;
 - 1 location in Davenport Creek off of SR 545;
 - 1 location in the lower portion of Reedy Creek (likely wildlife influenced); and
 - 3 locations (4 exceedances) within a drainage ditch running under SR 535 and Hotel Plaza Blvd. The District continues to monitor the area with expanded sampling until construction has been completed. Recent sampling results have indicated a lower level of pollution with sporadic exceedances at various locations.
 - Seven exceedances for **Chlorophyll-a** were recorded within two waterbodies as follows:
 - 1 location above the S-407; and
 - 6 locations within the L-405 canal.
 - **pH** readings at numerous locations across property measured outside the specified criteria. The number of samples that did not meet surface water criteria increased in comparison to the previous quarter's sampling events, but was slightly below the number of exceedances from Q3 of 2024. In fact, the exceedance rate for Q3 2025 was below the average exceedance rate of the previous five Q3 results. The exceedances were all located in areas where low pH has been observed in the past and do not appear to be the result of environmental degradation. Staff will continue to monitor the system for trends or anomalies.



Pollution Control Quarterly Report

Third Quarter 2025 (July-September)

Routine Monitoring Continued

- **Total alkalinity** results were outside of regulatory limits for nearly sixteen percent of all sites collected and tested across property. The exceedance rate increased slightly from the previous quarter, and was within previous records of past Q3 exceedance data. Exceedances occurred in areas where lower alkalinity has been observed in the past, and some of the areas appear to have naturally low levels of alkalinity.
- The number of criteria exceptions for **dissolved oxygen** measurements increased from the previous quarter. These sample sites also occur in areas where low dissolved oxygen has occurred in the past. District staff continues to track and monitor any changes that occur on property, but these findings appear to be consistent with past Q3 results.
- **Copper** results were elevated at the following five sample sites listed below. Most of the sites exceeding state standards this quarter were located outside District boundaries and within the Golden Oak community.
 - 3 locations in the Golden Oak area; and
 - 2 locations in the L-407A canal.
- **Iron** was elevated at one location:
 - 1 location in the L-405 canal.
- **Cadmium** was elevated at one location off property where no prior exceedances have been detected. No obvious source for the exceedance was found, but further sampling of the area should establish if additional monitoring is needed:
 - 1 location in Davenport Creek off of SR 545.



RC-14M, 7/8/25
pH and Dissolved Oxygen exceedances



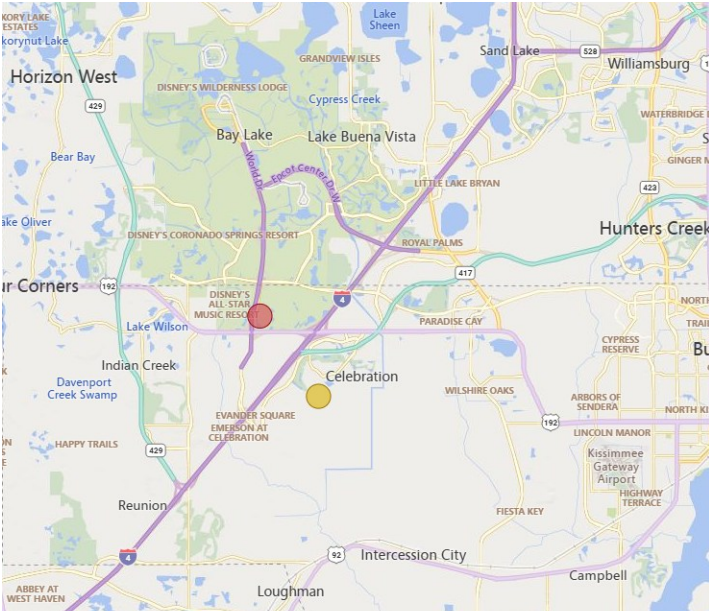
STW-4M, 7/1/25
July ~ Exceptional Stream Condition Index Score
September ~ Normal MHD Result



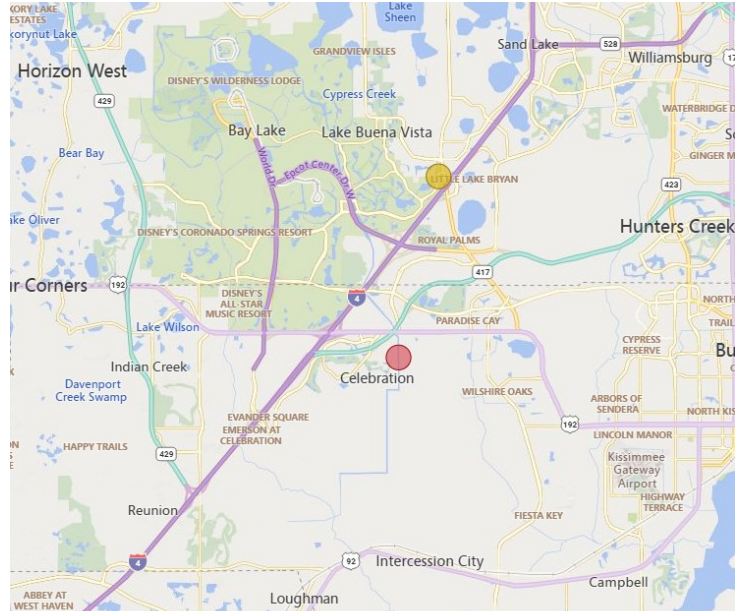
Pollution Control Quarterly Report Third Quarter 2025 (July-September)

Water Quality Outside of Guideline Limits

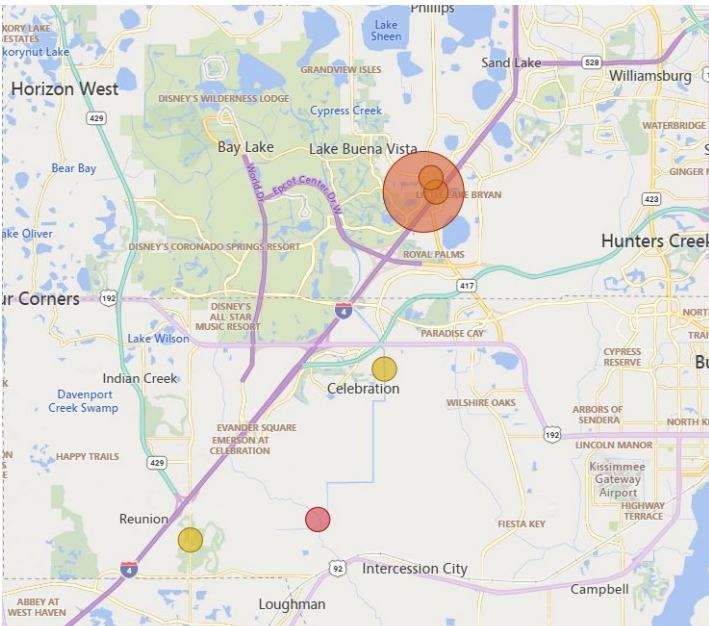
Color Gradient Scale



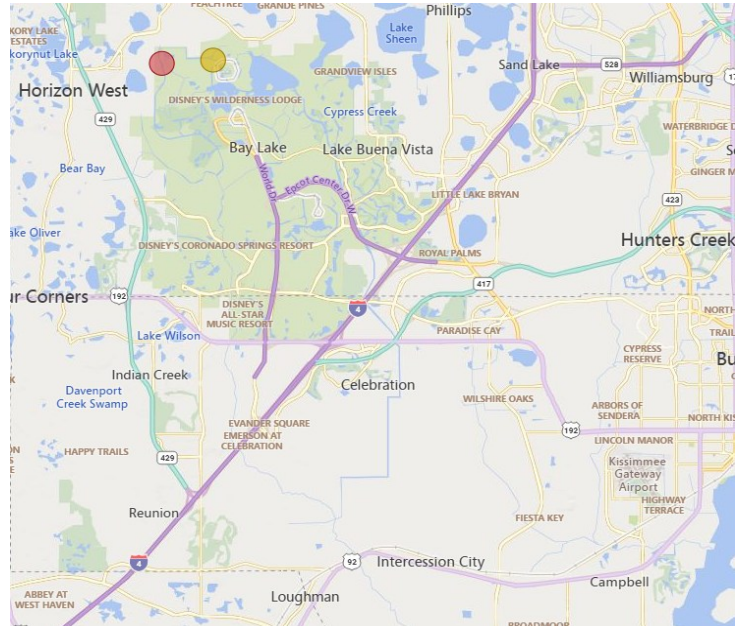
Total Nitrogen (n=2 out of 148, 1.3%)
2 Sample Sites



Total Phosphorus (n=2 out of 159, 1.2%)
2 Sample Sites



E.coli (n=7 out of 119, 5.9%)
6 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Chlorophyll-a (n=7 out of 112, 6.2%)
2 Waterbody Locations

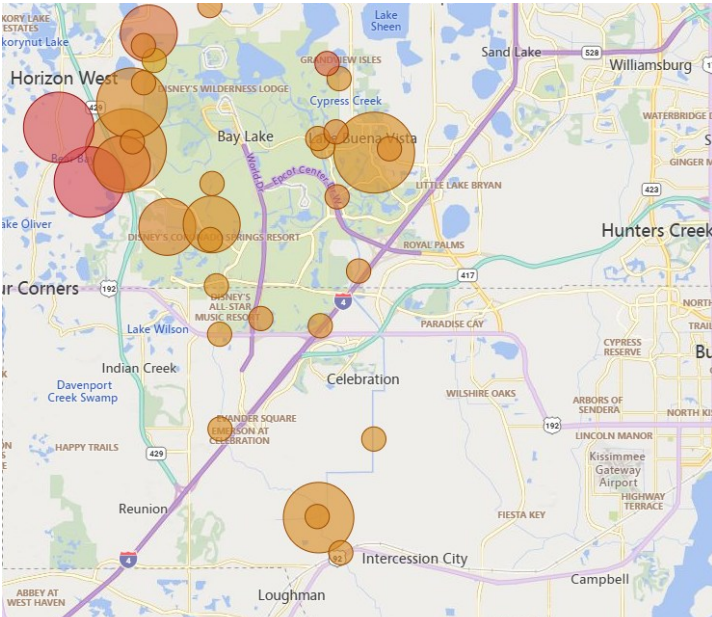
CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.



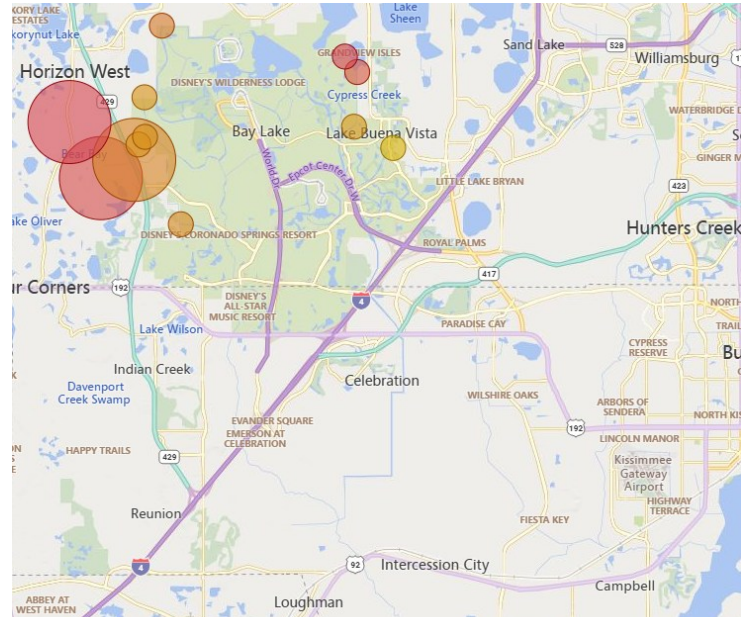
Pollution Control Quarterly Report Third Quarter 2025 (July-September)

Water Quality Outside of Guideline Limits

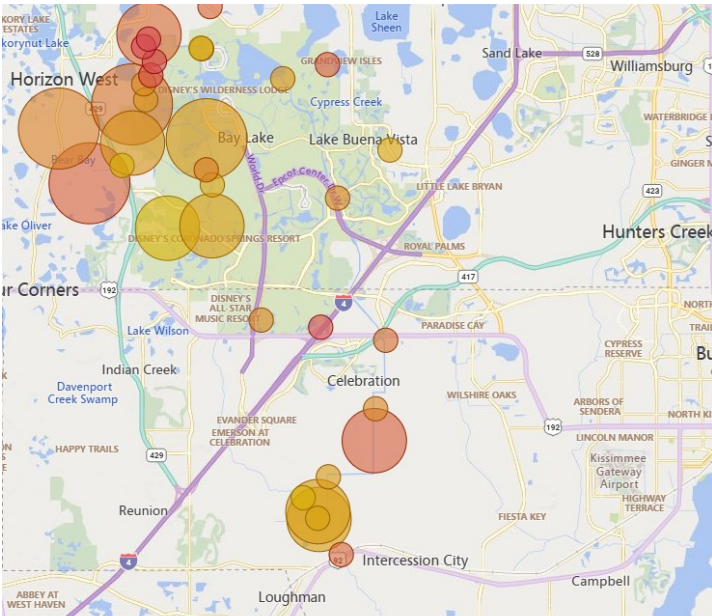
Color Gradient Scale



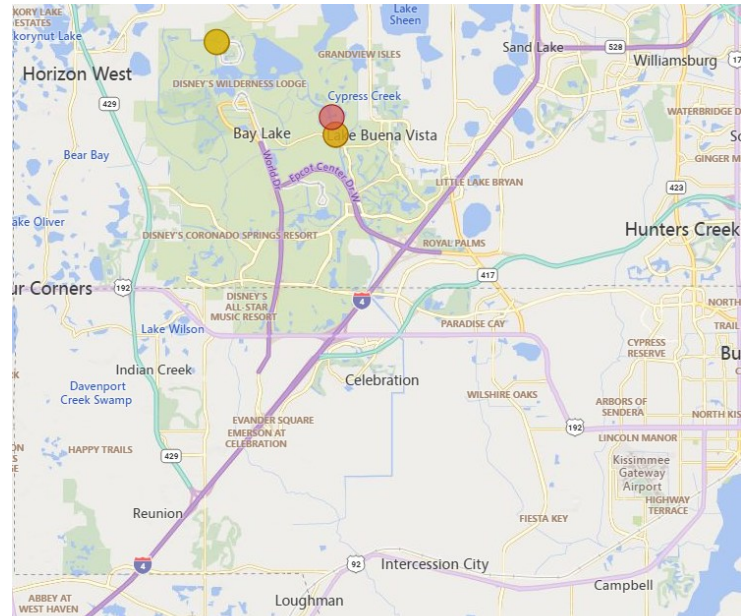
pH (n=51 out of 183, 27.9%)
33 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Alkalinity (n=18 out of 114, 15.8%)
12 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Percent Dissolved Oxygen Saturation (n=50 out of 180, 27.8%)
35 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Copper (n=5 out of 83, 6.0%)
5 Sample Sites

CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.

*The Reedy Creek Watershed includes a large wetland system which naturally has low alkalinity, dissolved oxygen, & pH. These parameters may fall outside of 62-302 water quality criteria, but are not indicative of impairment or pollution.



Pollution Control Quarterly Report Third Quarter 2025 (July-September)

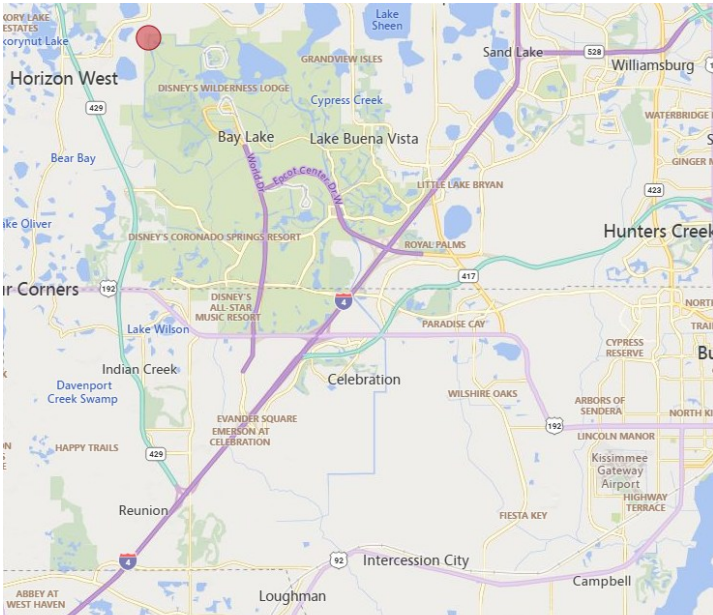
Water Quality Outside of Guideline Limits

Color Gradient Scale

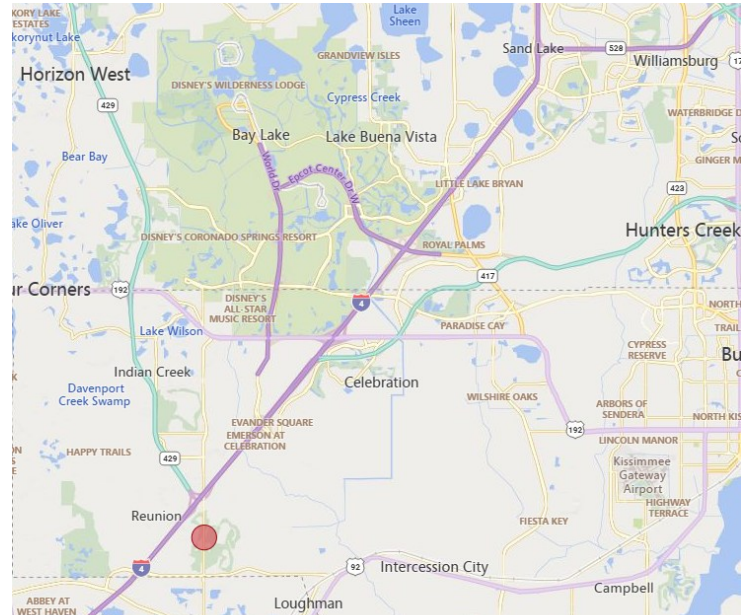


Lower Exceedance

Greater Exceedance



Iron (n=1 out of 86, 1.2%)
1 Sample Site



Cadmium (n=1 out of 99, 1.0%)
1 Sample Site



RC-16, 8/26/2025
Cadmium and *E.coli* exceedances



LFS-6, 8/11/2025
Chl-a, Iron, and Dissolved Oxygen exceedances

CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.

*The Reedy Creek Watershed includes a large wetland system which naturally has low alkalinity, dissolved oxygen, & pH. These parameters may fall outside of 62-302 water quality criteria, but are not indicative of impairment or pollution.



Pollution Control Quarterly Report

Third Quarter 2025 (July-September)

Macroinvertebrate Monitoring

During the third quarter of 2025, the Macroinvertebrate Biology Section completed eighteen macroinvertebrate assessments, including one Stream Condition Index (SCI) collection, four Lake Condition Index (LCI) samples and thirteen MHD (Modified Hester-Dendy Multiplate Sampler) collections. The results of the completed bio assessments within District or jurisdictional waters are shown in the following table.

As indicated below, most results from the third quarter were normal or better than normal, suggesting stable environmental conditions at these sites. In two cases, however, results were below normal. These cases were MHD samples located in canals where water levels and flow are determined by utilization of water control structures. The MHD samples collected at these sites showed below normal results, with few good water quality indicator taxa, a relatively low number of species, and low Biotic Index values. These results, however, are not historic lows, and have been somewhat common in these stretches of canal. Staff will continue to monitor these areas for anomalies and trends.

The Biotic Index (BI) and Hulbert Index (HI) are taxa sensitivity indices for streams and lakes, respectively. Higher scores are indicative of better water quality and habitat availability.

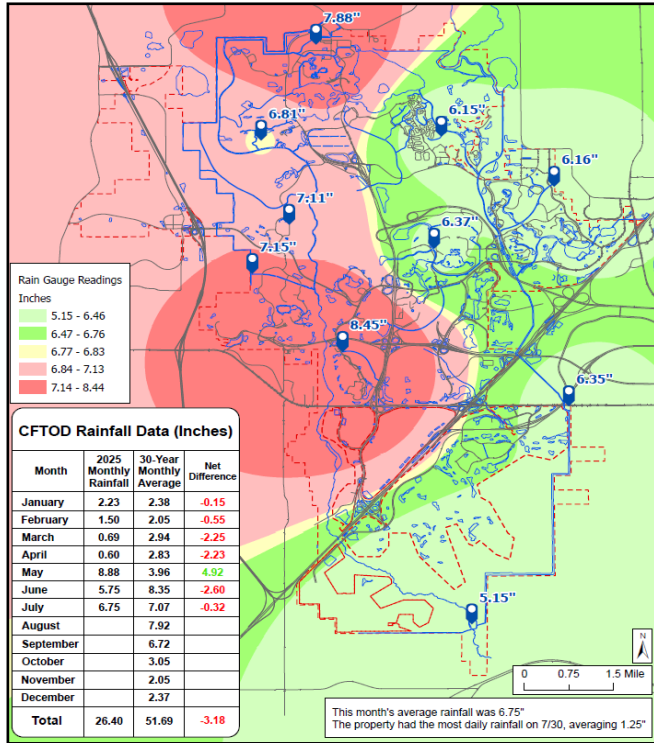
SITE	DESCRIPTION	DATE	TYPE	RESULTS
STW-4M	Reedy Creek above US 192	7/01/25	SCI, RPS, LVS	Exceptional results; SCI=76, BI=222
RC-19A	Reedy Creek Canal at the force main	7/15/25	MHD	Normal results
RC-1	Reedy Creek at NW corner of property	7/23/25	MHD	Below normal results
RC-6	perimeter canal west of C-4 canal	7/23/25	MHD	Better than normal results
RC-13B	Reedy Creek upstream of I-4	7/28/25	MHD	Normal results
RC-14M	Reedy Creek just below C-1 canal	8/05/25	MHD	Normal results
C-12A	C-1 Canal just south of US 192	8/05/25	MHD	Normal results
RC-6B	Whittenhorse Creek at wooden bridge	8/11/25	MHD	Normal results
RC-7	Reedy Creek Canal DS of Bear Island Road	8/11/25	MHD	Below normal results
RC-16A	Davenport Creek just NE of powerline vehicle path	8/13/25	MHD	Normal results
STW-1M	Cypress Creek above Vista Blvd.	8/20/25	MHD	Normal results
C-5M (MS4)	Cypress Creek Canal	8/20/25	MHD	Normal results
L-BCOMP	Bay Lake	9/02/25	LCI	Normal results; LCI=72, HI=11
RC-21B	Reedy Creek below Osceola Parkway - east branch	9/15/25	MHD	Normal results
STW-4M	Reedy Creek above US 192	9/15/25	MHD	Normal results



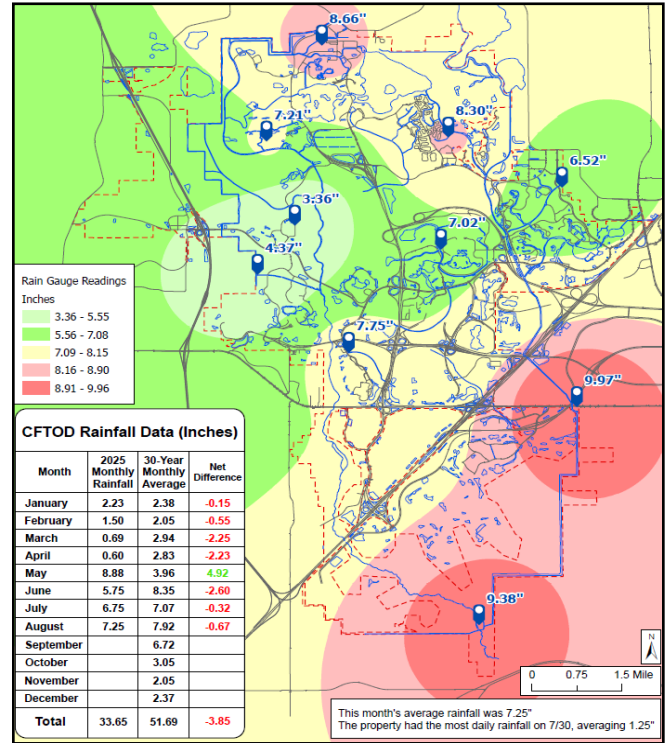
Pollution Control Quarterly Report

Third Quarter 2025 (July-September)

District Rainfall Summary



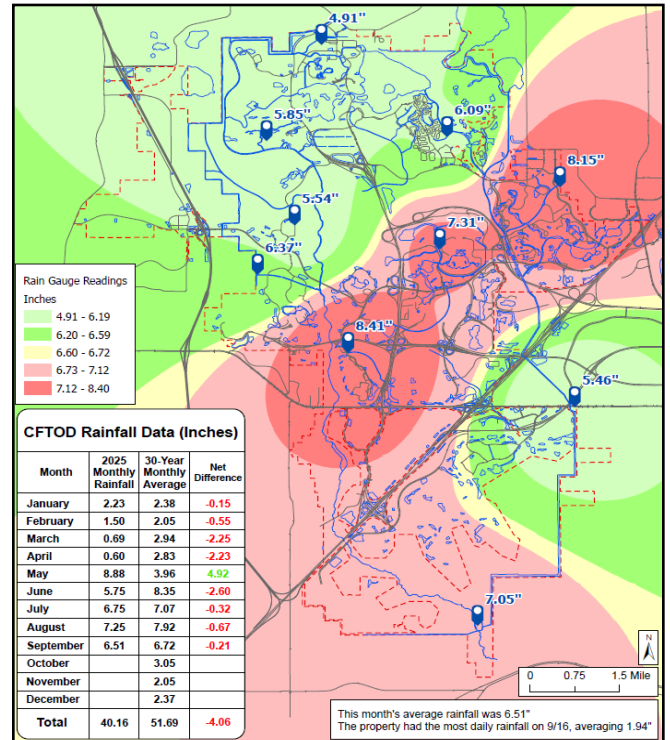
July 2025



August 2025

CFTOD Rainfall Data (Inches)

Month	2025 Monthly Rainfall	30-Year Monthly Average	Net Difference
January	2.23	2.38	-0.15
February	1.5	2.05	-0.55
March	0.69	2.94	-2.25
April	0.6	2.83	-2.23
May	8.88	3.96	4.92
June	5.75	8.35	-2.6
July	6.75	7.07	-0.32
August	7.25	7.92	-0.67
September	6.51	6.72	-0.21
October		3.05	
November		2.05	
December		2.37	
Total	40.16	51.69	-4.06



September 2025





Pollution Control Quarterly Report

Fourth Quarter 2025 (October-December)

General Information

During the fourth quarter (Q4) of 2025, 3,258 samples were collected or delivered from 691 sample sites. A total of 18,494 tests were performed, of which 12,445 or 67.3% of the total tests were from surface waters.

Water Quality

Surface water quality within CFTOD is measured according to criteria in Chapter 62-302 of the Florida Administrative Code (FAC) and Numeric Nutrient Criteria specifically for Class III recreational waters. The Reedy Creek watershed includes a large wetland system, which typically has low alkalinity, dissolved oxygen and pH. These parameters may fall outside Chapter 62 FAC water quality criteria, but are not indicative of impairment or pollution.

Routine Monitoring

Environmental Sciences monitored a number of sample locations for permit compliance as well as routine monitoring of surface water, stormwater outfalls and inflows to property.

- Swimming beaches and areas open to the public met FAC guidelines for bathing places for all locations tested.
- Out of the 12,445 surface water tests performed, 98.4% of tests analyzed met the FAC 62-302 and Numeric Nutrient Criteria guidelines with the following few exceptions (see maps for additional information):
 - **Nitrogen** results were elevated at five locations (six exceedances):
 - 2 locations (3 exceedances) in the L-401A canal;
 - 2 locations in the L-405 canal; and
 - 1 location in the L-410 canal.
 - Elevated **phosphorus** results were present at the following three locations:
 - 2 Celebration Village outfalls; and
 - 1 location in the C-4 canal above the S-46 structure.
 - **E.coli** exceedances based on a single sample occurred at fourteen sites (eighteen exceedances) during the fourth quarter:
 - 3 locations in the upper portion of the C-1 canal;
 - 2 location in the lower portions of Reedy Creek (likely wildlife influenced);
 - 1 location in Davenport Creek off of SR 545;
 - 1 location in the upper portion of Reedy Creek;
 - 1 location in the L-401 canal;
 - 3 locations (7 exceedances) within a drainage ditch running under SR 535 and Hotel Plaza Blvd; and
 - 3 locations collected at structures at the L-405, L-410, and Perimeter Canals. In December, multiple exceedances were recorded after a heavy rain event which most likely flushed the system. Follow up sampling was conducted that resulted in readings within state limits.
 - Two exceedances for **Chlorophyll-a** were recorded within two waterbodies as follows:
 - 1 location above the S-407 structure; and
 - 1 location within the L-401 canal.
 - **pH** readings at numerous locations across property measured outside the specified criteria. The number of samples that did not meet surface water criteria increased in comparison to the previous quarter's sampling events, but was only slightly higher than the number of exceedances in Q4 of 2024. The last quarter of the year has typically resulted in the highest number of exceedances going back the past 8 years. The exceedances were all located in areas where low pH has been observed in the past and do not appear to be the result of environmental degradation. Staff will continue to monitor the system for trends or anomalies.



Pollution Control Quarterly Report

Fourth Quarter 2025 (October-December)

Routine Monitoring Continued

- **Total alkalinity** results were outside of regulatory limits for twenty-eight percent of all sites collected and tested across property. The exceedance rate increased from the previous quarter, but was within previous results of past Q4 exceedance data. Exceedances occurred in areas where lower alkalinity has been observed in the past, and some of the areas appear to have naturally low levels of alkalinity.
- The number of criteria exceptions for **dissolved oxygen** measurements decreased from the previous quarter and were also lower than several past Q4 results. The samples that were below the threshold occurred in areas where low dissolved oxygen has been observed in the past. District staff continues to track and monitor any changes that occur on property.
- **Copper** results were elevated at the following five sample sites listed below. Most of the sites exceeding state standards this quarter were located outside District boundaries and within the Golden Oak and Celebration communities.
 - 3 locations in the Golden Oak area;
 - 1 Celebration Village outfall; and
 - 1 location in the L-407A canal.
- **Cadmium** was elevated at one outfall taken on the C-1 Canal where no prior exceedances have been detected. No obvious source for the exceedance was found, but further sampling of the area should establish if additional monitoring is needed:
 - 1 location in the C-1 canal taken from end of pipe.



C-3B, 10/2/25
E.coli, pH, Copper, and Alkalinity exceedances



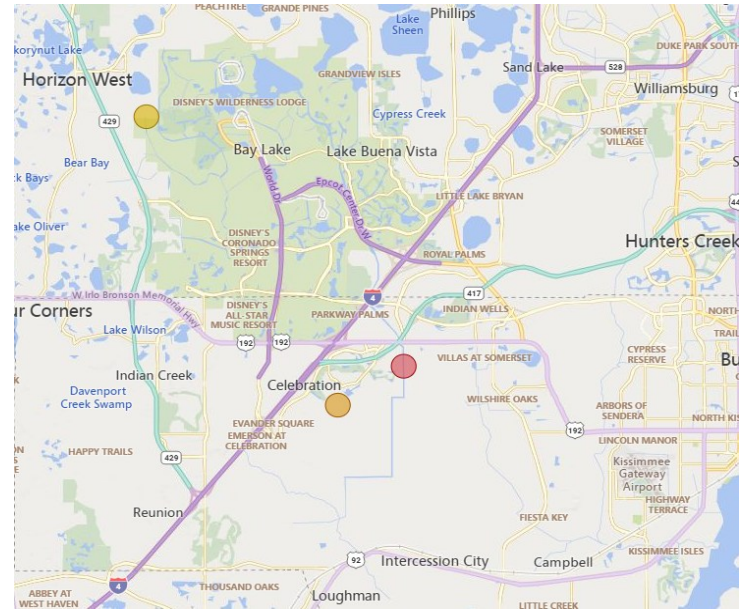
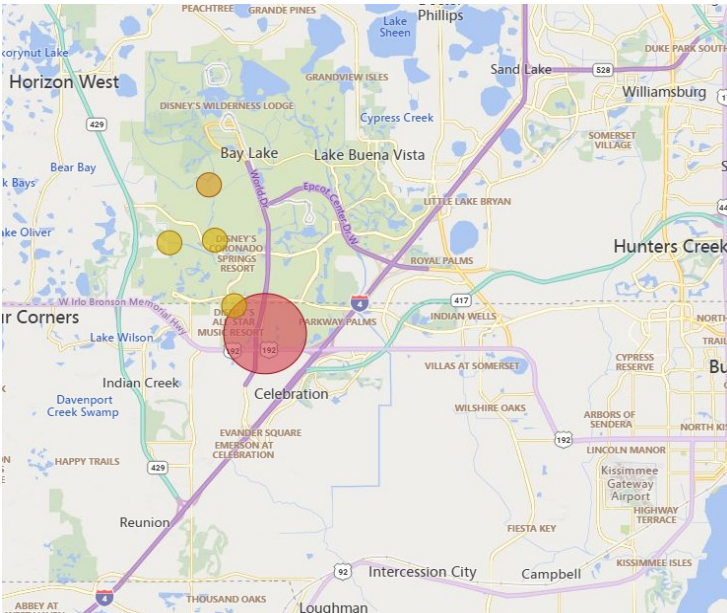
C-10B, 11/12/25
November ~ Better than Normal MHD Result



Pollution Control Quarterly Report Fourth Quarter 2025 (October-December)

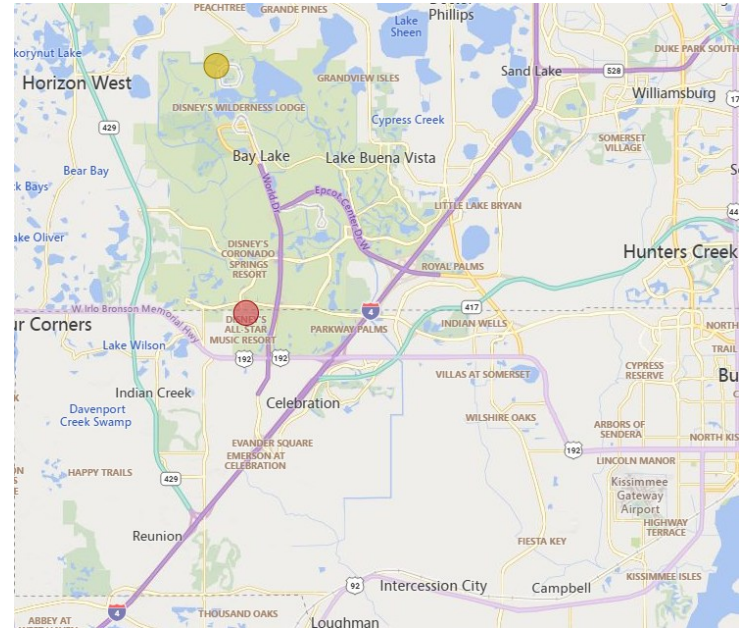
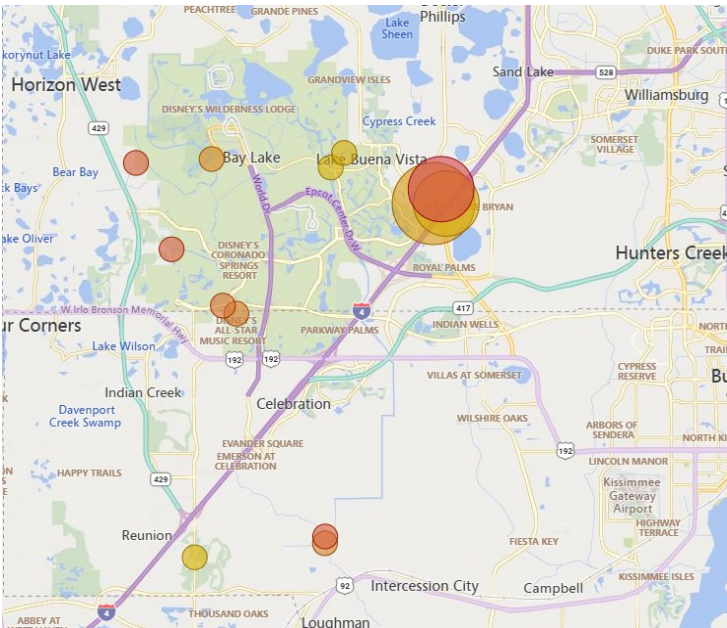
Water Quality Outside of Guideline Limits

Color Gradient Scale



Total Nitrogen (n=6 out of 156, 3.8%)
5 Sample Sites
Larger dot size = multiple exceedances at the same sample site

Total Phosphorus (n=3 out of 160, 1.9%)
3 Sample Sites



E.coli (n=18 out of 134, 13.4%)
14 Sample Sites
Larger dot size = multiple exceedances at the same sample site

Chlorophyll-a (n=2 out of 125, 1.6%)
2 Waterbody Locations

CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.



Pollution Control Quarterly Report Fourth Quarter 2025 (October-December)

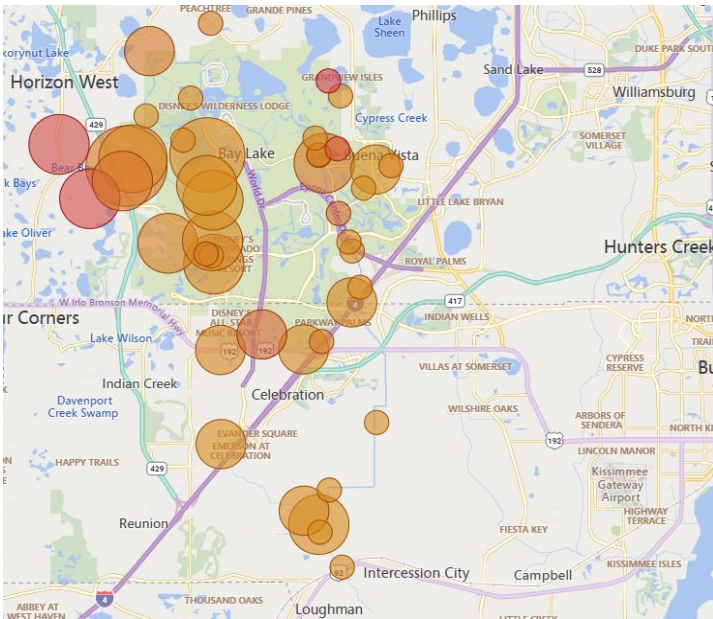
Water Quality Outside of Guideline Limits

Color Gradient Scale

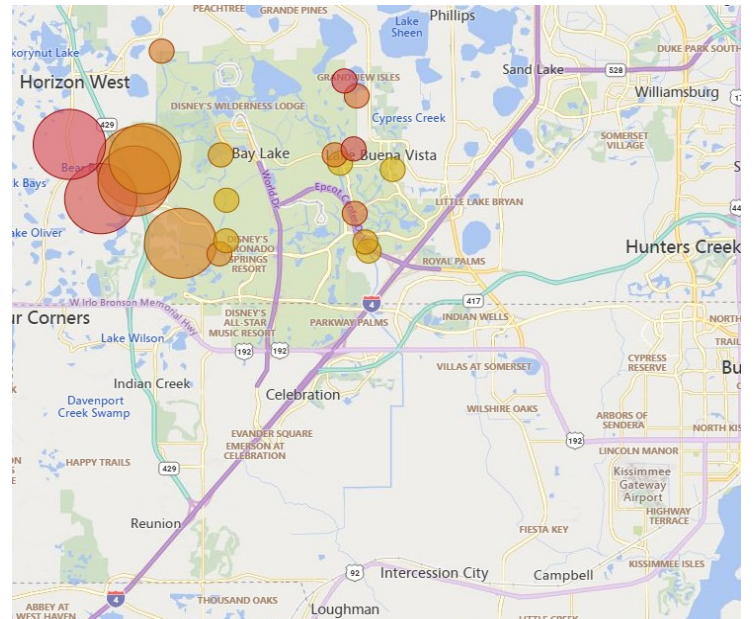


Lower Exceedance

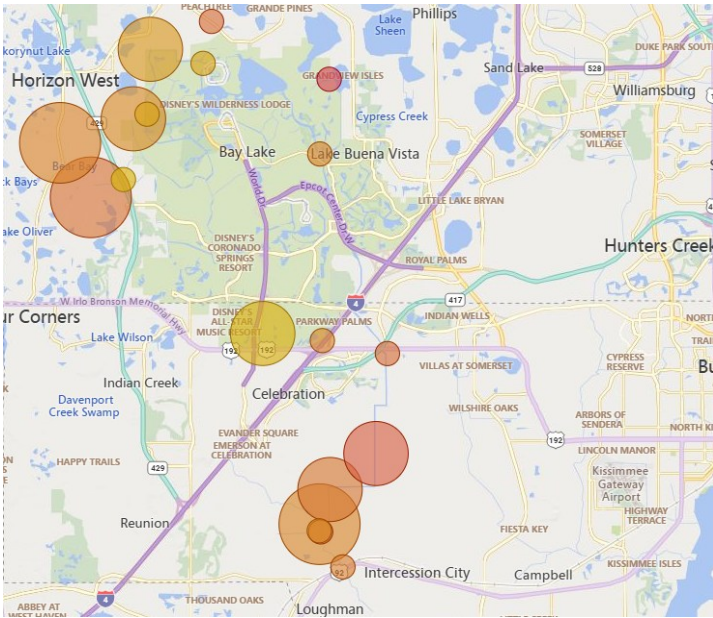
Greater Exceedance



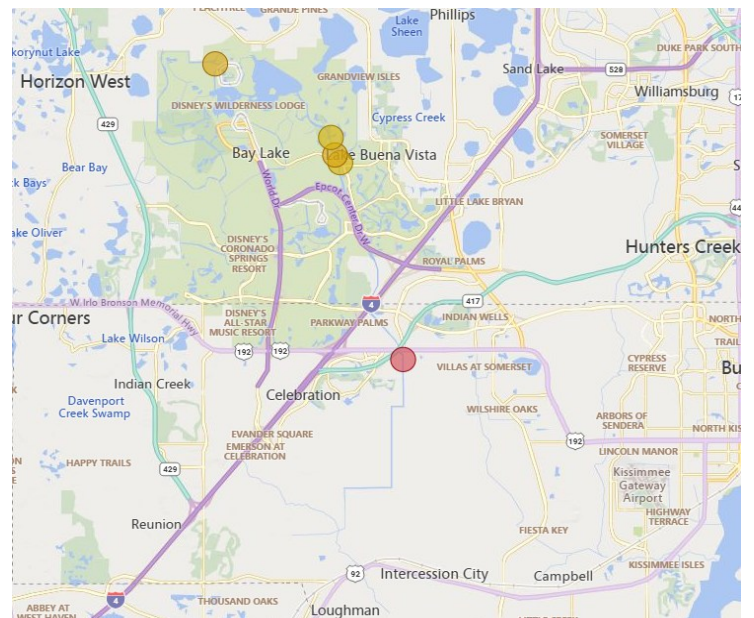
pH (n=79 out of 185, 42.7%)
40 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Alkalinity (n=33 out of 117, 28.2%)
20 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Percent Dissolved Oxygen Saturation (n=30 out of 182, 16.5%)
19 Sample Sites
Larger dot size = multiple exceedances at the same sample site



Copper (n=5 out of 81, 6.2%)
5 Sample Sites

CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.

*The Reedy Creek Watershed includes a large wetland system which naturally has low alkalinity, dissolved oxygen, & pH. These parameters may fall outside of 62-302 water quality criteria, but are not indicative of impairment or pollution.



Pollution Control Quarterly Report Fourth Quarter 2025 (October-December)

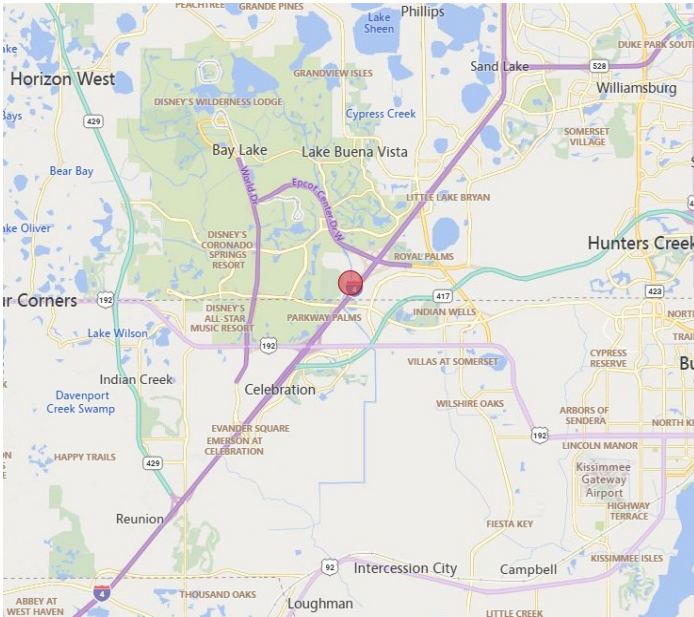
Water Quality Outside of Guideline Limits

Color Gradient Scale



Lower Exceedance

Greater Exceedance



Cadmium (n=1 out of 100, 1.0%)
1 Sample Site



WH-4, 10/21/2025
pH, Alkalinity, and Dissolved Oxygen exceedances



RC-13L, 11/18/2025
Dissolved Oxygen, pH, and E.coli exceedances



RC-19A, 11/12/2025
pH and Alkalinity exceedances

CFTOD monitors hundreds of water quality sample sites on a daily, weekly, monthly & quarterly basis. These maps only display those sites that are not within the 62-302 FAC or Numeric Nutrient criteria for a single event during the indicated time period. Not all sites displayed are ambient or subject to the water quality criterion noted.



Pollution Control Quarterly Report

Fourth Quarter 2025 (October-December)

Macroinvertebrate Monitoring

During the fourth quarter of 2025, the Macroinvertebrate Biology Section completed eighteen macroinvertebrate assessments, including five Lake Condition Index (LCI) samples and thirteen MHD (Modified Hester-Dendy Multiplate Sampler) collections. The results of the completed bio assessments within District or jurisdictional waters are shown in the following table.

As indicated below, most results from the fourth quarter were normal or better than normal, suggesting stable environmental conditions at these sites. In one case, however, results were below normal. This site is located downstream of the S-405 structure which has been undergoing maintenance. During retrieval of the MHD samplers, the gate was open creating extreme velocities (>3 ft/sec). Research shows that extreme velocities are known to have negative impacts on macroinvertebrate communities. Sampling at another site just downstream of the previously mentioned impacted site on 11/19/2025 showed normal results. This sample was collected prior to any maintenance conducted on the S-405 structure. The below normal results are likely due to the velocity changes during MHD deployment rather than a decline in water quality. Future sampling should clarify this.

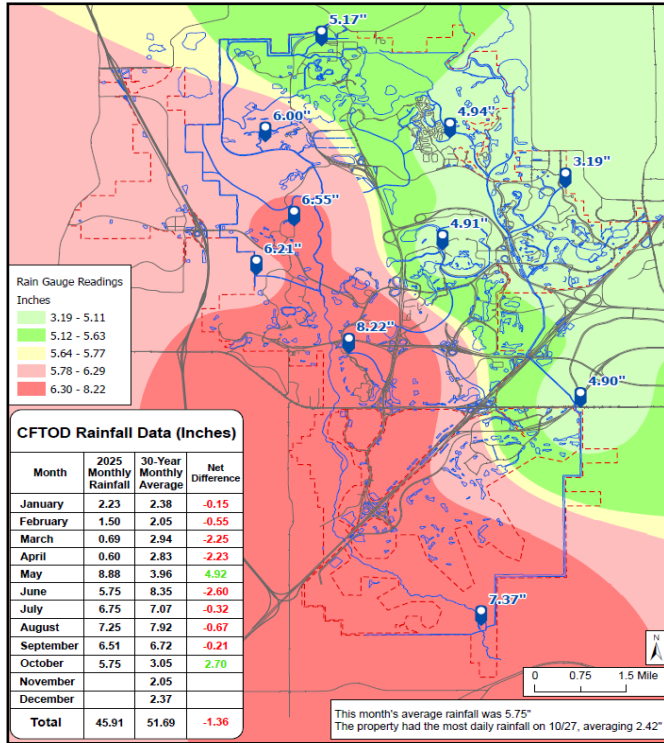
The Biotic Index (BI) and Hulbert Index (HI) are taxa sensitivity indices for streams and lakes, respectively. Higher scores are indicative of better water quality and habitat availability.

SITE	DESCRIPTION	DATE	TYPE	RESULTS
RC-13B	Reedy Creek upstream of I-4	10/01/2025	MHD	Normal results
RC-14M	Reedy Creek just below C-1 canal	10/27/2025	MHD	Normal results
C-15	C-1 Canal south of US 192	10/27/2025	MHD	Normal results
C-3B	C-1 Canal at Vista Blvd.	10/28/2025	MHD	Normal results
L-BCOMP	Bay Lake	11/03/2025	LCI	Normal results; LCI score=62, HI=15
C-10B	C-1 Canal above I-4	11/12/2025	MHD	Better than normal results
STW-4M	Reedy Creek just north of US 192	11/12/2025	MHD	Normal results
RC-19A	Reedy Creek Canal at the force main	11/19/2025	MHD	Better than normal results
RC-11	Reedy Creek below L-410 canal	12/02/2025	MHD	Normal results
RC-16A	Davenport Creek just NE of powerline vehicle path	11/25/2025	MHD	Normal results
RC-6B	Whittenhorse Creek at wooden bridge	12/02/2025	MHD	Normal results
RC-7	Reedy Creek Canal downstream of Bear Island Road	12/02/2025	MHD	Below normal results
C-5M	Cypress Creek Canal	12/16/2025	MHD	Normal results
STW-1M	Cypress Creek above Vista Blvd.	12/16/2025	MHD	Normal results

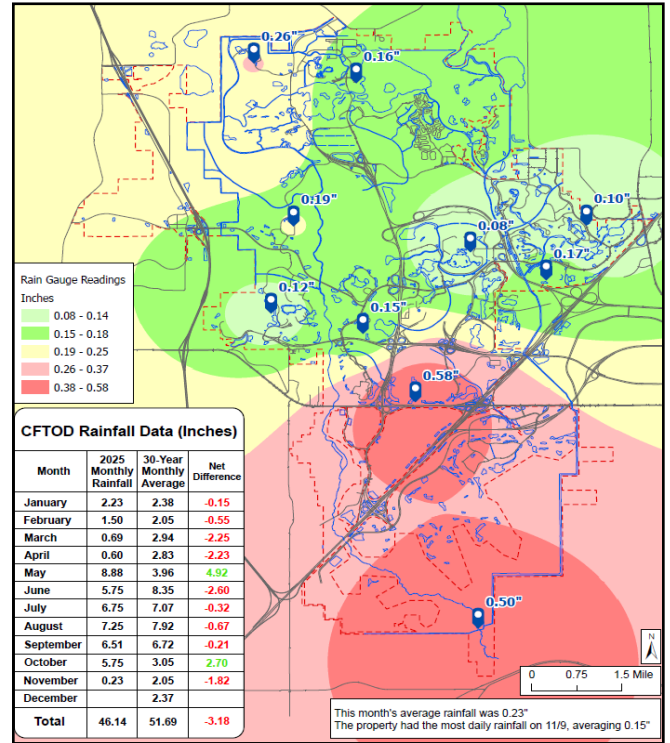


Pollution Control Quarterly Report Fourth Quarter 2025 (October-December)

District Rainfall Summary

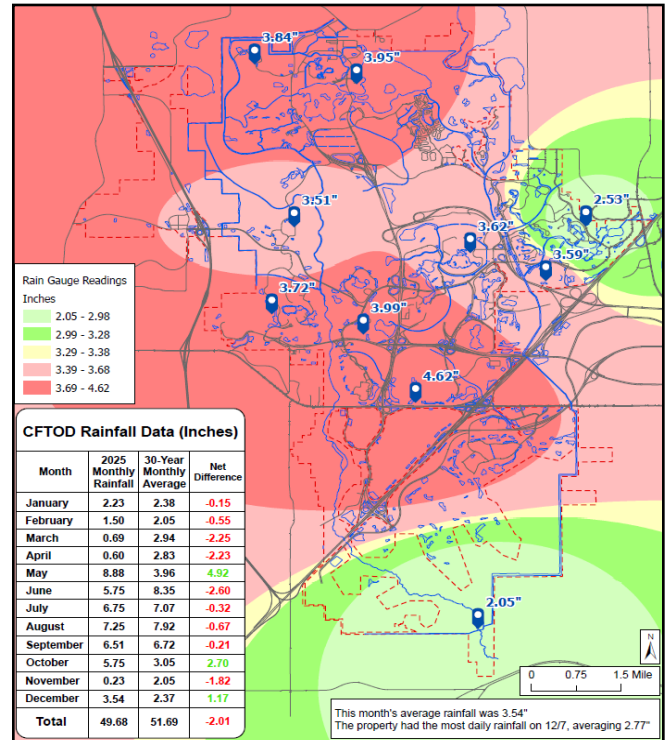


October 2025



November 2025

CFTOD Rainfall Data (Inches)			
Month	2025 Monthly Rainfall	30-Year Monthly Average	Net Difference
January	2.23	2.38	-0.15
February	1.5	2.05	-0.55
March	0.69	2.94	-2.25
April	0.6	2.83	-2.23
May	8.88	3.96	4.92
June	5.75	8.35	-2.6
July	6.75	7.07	-0.32
August	7.25	7.92	-0.67
September	6.51	6.72	-0.21
October	5.75	3.05	2.70
November	0.23	2.05	-1.82
December	3.54	2.37	1.17
Total	49.68	51.69	-2.01



December 2025