APOPKA CITY COMMISSION WORKSHOP AGENDA

June 17, 2026 5:00 PM

Apopka City Hall Council Chambers

APOPKA CITY COUNCIL MEETING WILL BE LIVE-STREAMED ON YOUTUBE. TO WATCH, PLEASE VISIT: https://www.youtube.com/CityofApopkaFL

CALL TO ORDER

INVOCATION

PLEDGE

CITY COMMISSION DISCUSSION (30 minutes)

1. **Golden Gem - Update**
   Presented by: Vladimir Simonovski, Public Works Director

ITEMS FOR FUTURE WORKSHOP DISCUSSIONS

1. **Appointments of Mayor/Commissioners to Boards (MetroPlan, LANGD, etc.)**
2. **Pioneering Agreement**
3. **Transportation (Traffic Signals, Crosswalks, Roundabouts, Planning, etc.)**
4. **Citizen Advisory Committees / Boards**
5. **Utility Infrastructure and Planing (water, wastewater, reuse)**
6. **Comprehensive Plan**
7. **Design/Implementation of Database Software for Commission Votes**

PUBLIC COMMENT PERIOD (30 minutes)

ADJOURNMENT

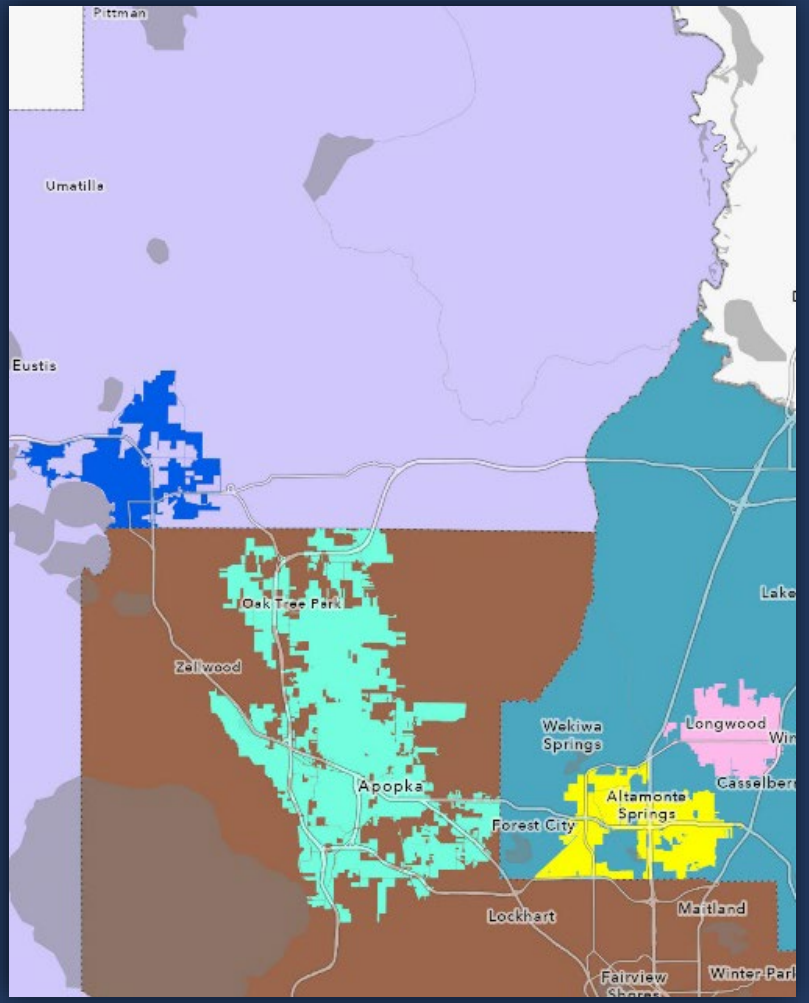
Golden Gem Reclaim Water Facility Workshop

Presented by: Vladimir Simonovski, PE
Public Works Director / City Engineer

Golden Gem RWF Workshop

Project Overview

- Regional reclaimed water initiative with SJRWMD
- Addresses long-term reclaimed water demand in NW Orange County
- Supports Metro Orlando northwest section regional water strategy for local utilities facing scarcity and abundance imbalance of reclaimed water
- Multi phase, multi year infrastructure investment supporting Apopka's growth



Golden Gem RWF Workshop

Regional Significance

- Apopka selected due to anticipated future development and reclaim water needs
- Project aligns with SJRWMD's regional strategy for efficient reclaimed water management
- Addresses reclaimed water shortages and surpluses regionally
- Enhances sustainability and resilience of local water supplies
- Supported through years of cost share funding from SJRWMD and FDEP

Golden Gem RWF Workshop

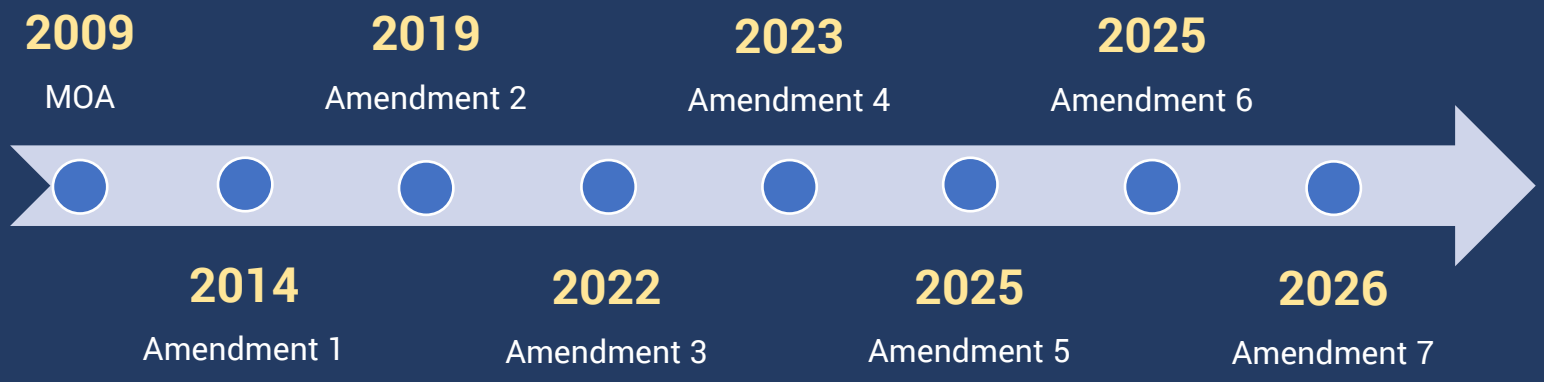
Environmental Benefits

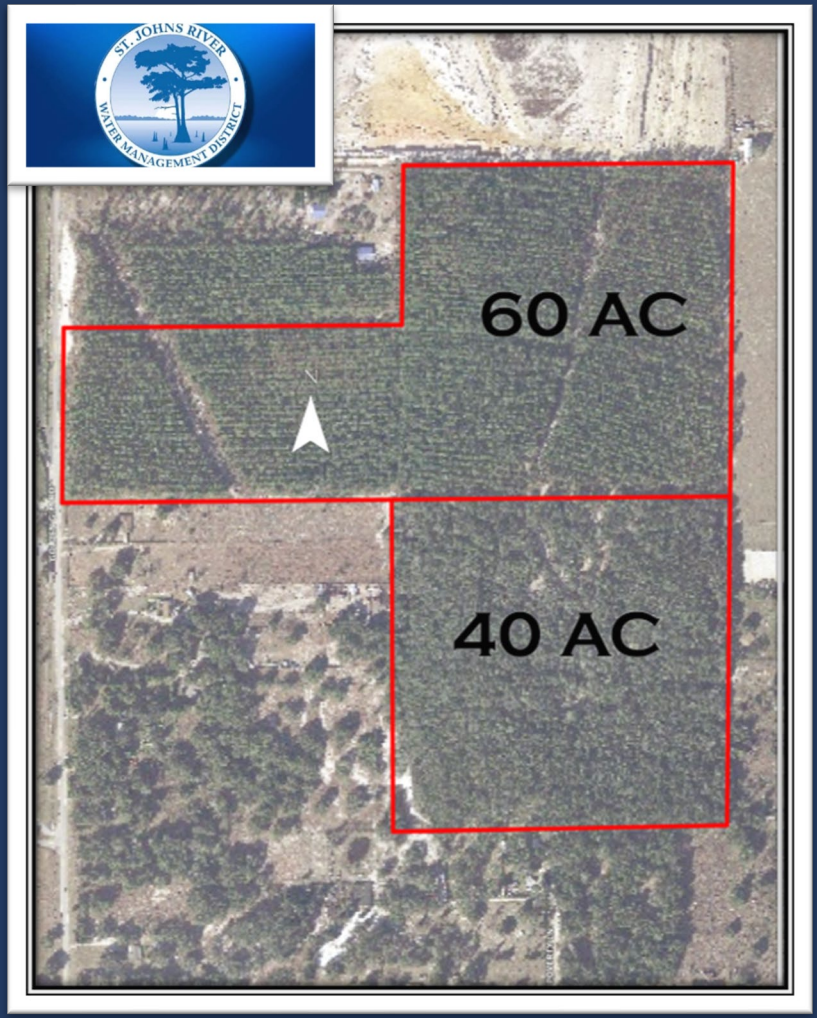
- Supports Basin Management Action Plan (BMAP) and Wekiva springsheds
- Reduces nitrogen through advanced nutrient removal
- Recycles 100% of Apopka's wastewater into reuse irrigation
- Eliminates raw wastewater discharge and decreases reliance on Floridian Aquifer withdrawals

Golden Gem RWF Workshop

Partnership History

- 2009 Memorandum of Agreement with SJRWMD
- SJRWMD purchased 100 acres for City's reclaimed water facility
- Multiple MOA amendments since 2009; latest (Amendment #7) approved May 2026
- Long-standing regional support expected to continue

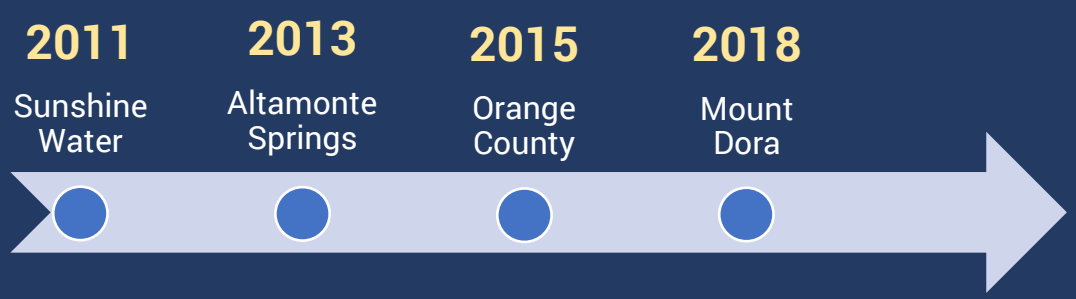


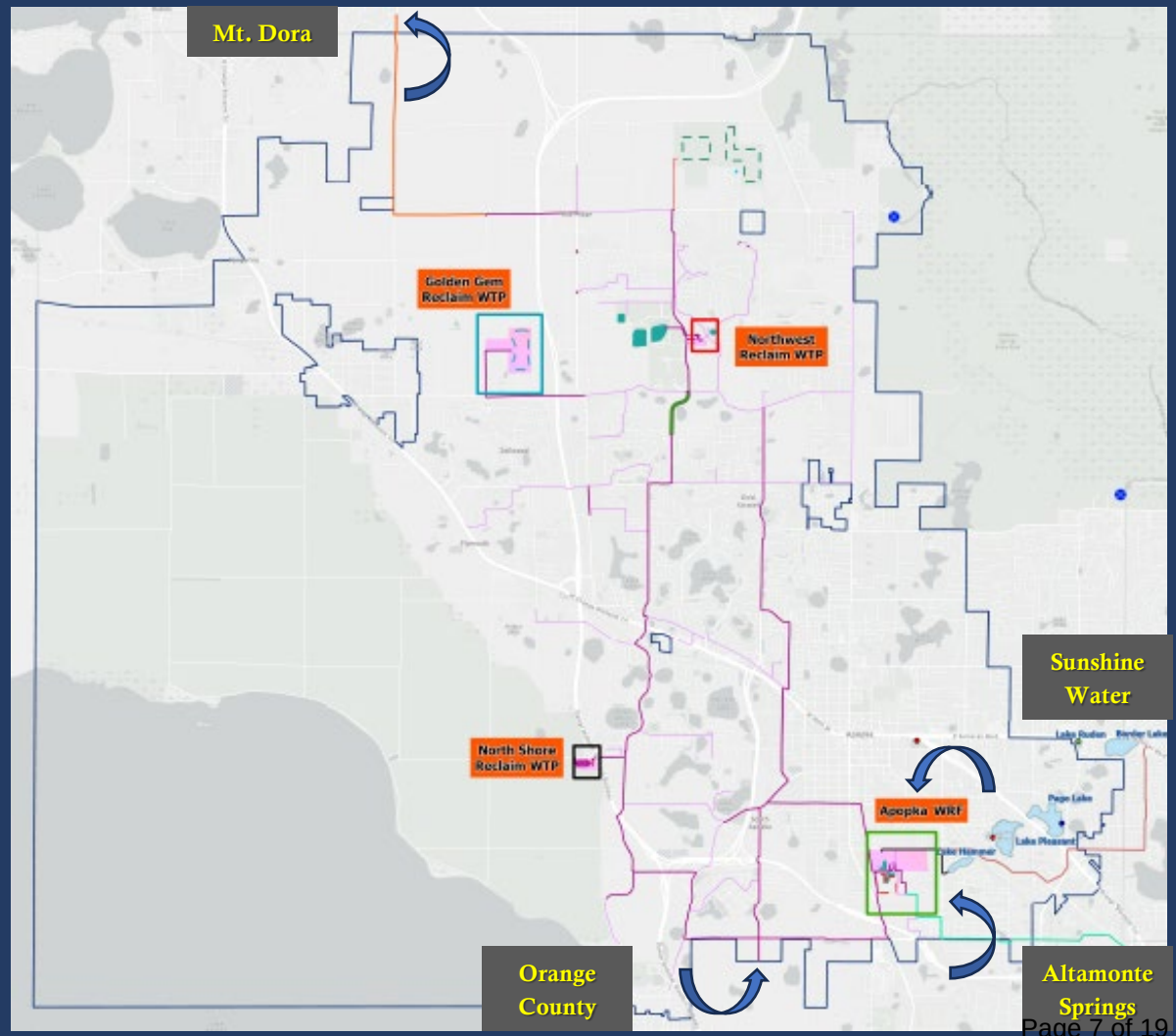


Golden Gem RWF Workshop

Regional Interconnectivity

- City maintains Interlocal Agreements with:
  - ✓ Sunshine Water
  - ✓ Orange County
  - ✓ City of Altamonte Springs
  - ✓ City of Mount Dora
- Agreements executed 2011–2018
- Increases flexibility and supply reliability





Golden Gem RWF Workshop

City of Apopka Reclaim Water Interlocal Agreements

CITY OF APOPKA

RECLAIM WATER SYSTEM SUPPLY (INFLOW)

Agency	Agreement Execution Date	Agreement Expiration Date	Agreement Terms (Initial + Successive)	Minimum Daily Flow (MG)	Average Daily Flow (MG)	Maximum Daily Flow (MG)	Consumption Cost 1,000 (gallons)
Sunshine Water	November - 2011	-	99- years (+10-yr)	**1.0**	**-**	**2.9**	**$0.00**
Altamonte Springs	June - 2013	-	50- years (+10-yr)	**0.0**	**4.5**	**7.0**	**$0.00**
Orange County	March - 2015	-	20- years (+5-yr)	**2.5**	**3.3**	**3.3**	**$1.57**

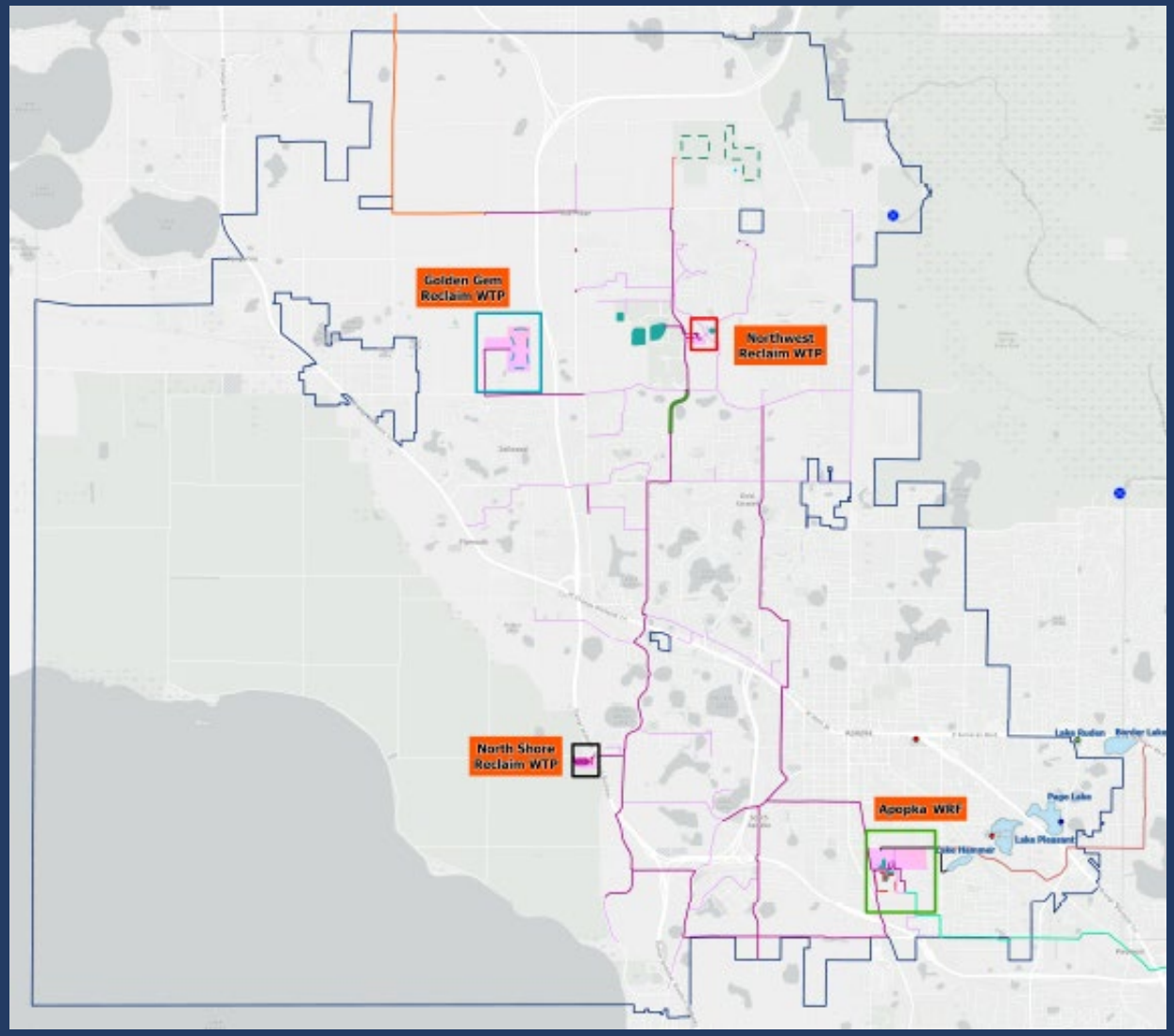
CITY OF APOPKA

RECLAIM WATER SYSTEM DEMAND (OUTFLOW)

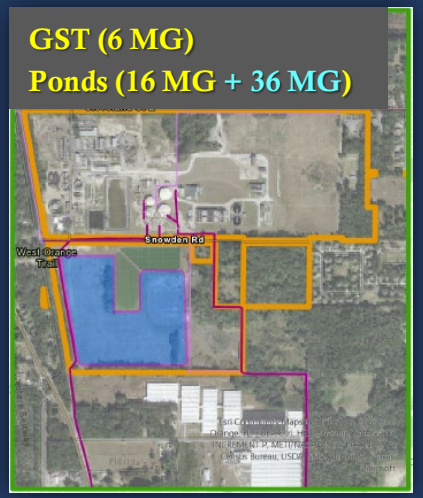
Agency	Agreement Execution Date	Agreement Expiration Date	Agreement Terms	Minimum Daily Flow (MG)	Average Daily Flow (MG)	Maximum Daily Flow (MG)	Consumption Cost 1,000 (gallons)
Mount Dora	April - 2018	-	10- years (+5-yr)	**available excess**	**-**	**up to 50% of excess**	**$1.00**

Golden Gem RWF Workshop

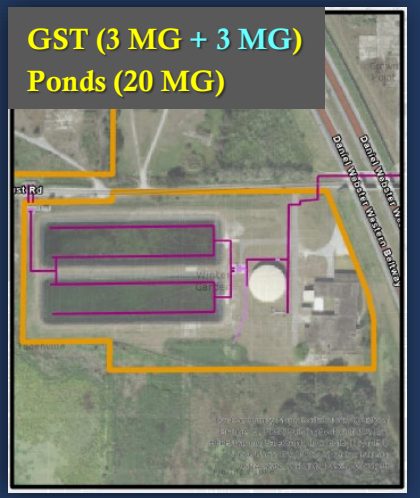
Reclaim Water Utility Service Area (~ 100 sq. mi / 60 sq. mi)



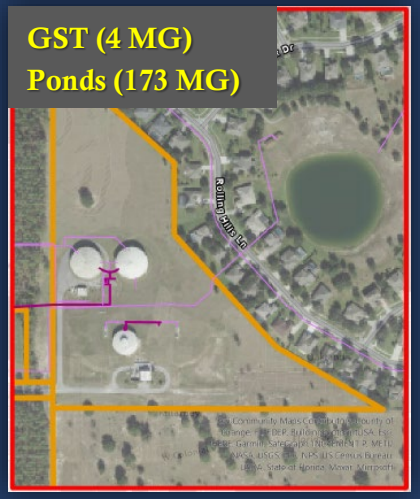
Apopka WRF



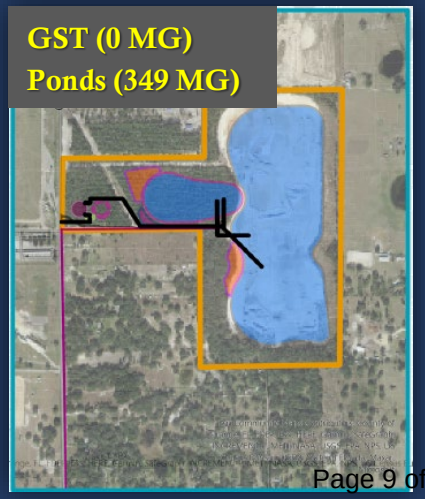
North Shore RWTP



Northwest RWTP



Golden Gem RWTP



Golden Gem RWF Workshop

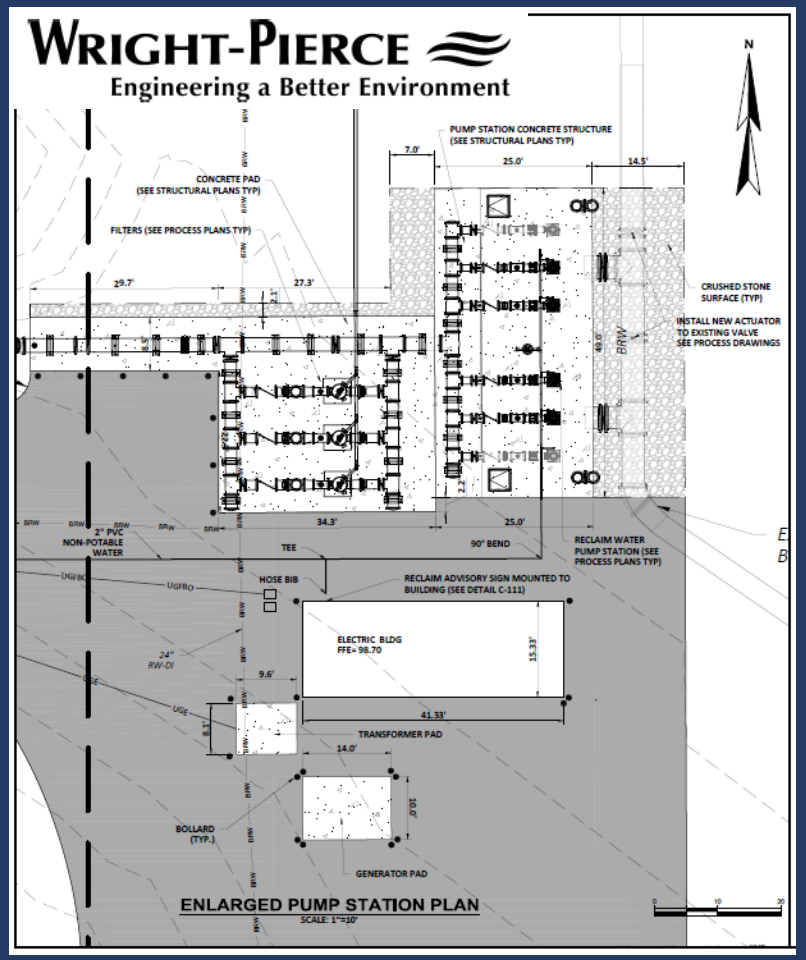
Completed Project Components

- East Pond completed 2021
- West Pond completed 2023
- Establishes essential storage capacity
- Forms foundation for distribution and treatment enhancement

Golden Gem RWF Workshop

Current Construction: Distribution Pump Station

- Designed by Wright-Pierce
- Bid advertised May 31, 2026
- Bid Opening scheduled for June 30, 2026
- Construction to begin before September 1, 2026
- 18-month construction duration
- Key component for distributing reclaimed water through the regional system



Golden Gem RWF Workshop

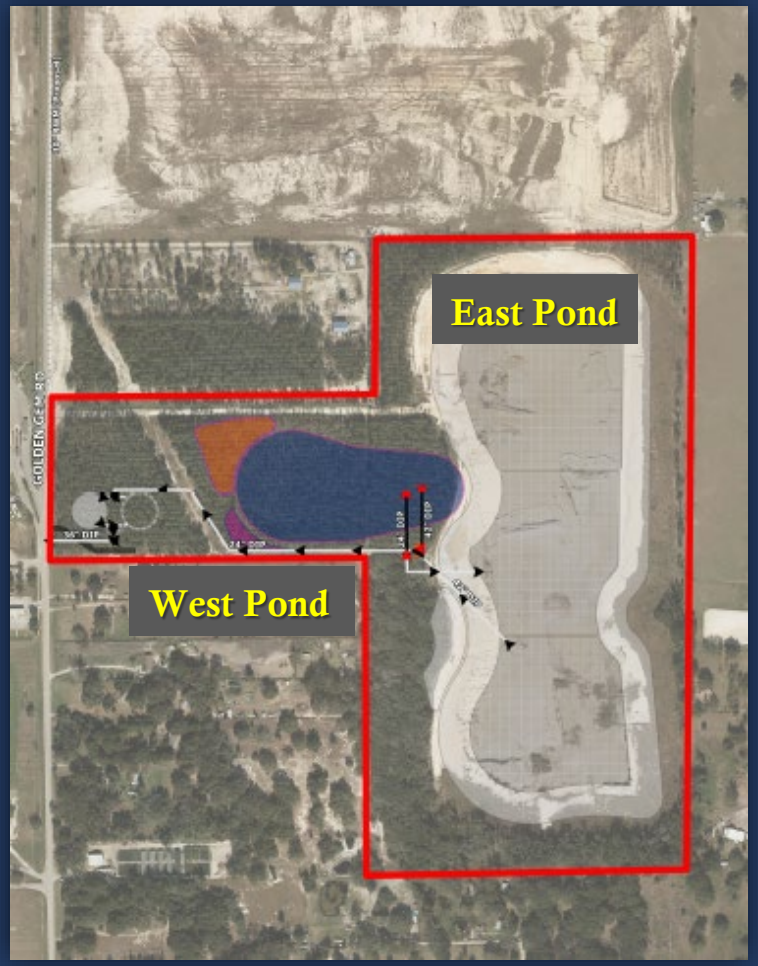
Ongoing Work: Pond Reconstruction

- Tetra Tech engaged to redesign and enhance West and East Pond performance
- Conceptual Design for West Pond released June 5, 2026
- Final Design for West Pond expected late August 2026
- Detailed technical discussion to follow in Tetra Tech's presentation

Golden Gem RWF Workshop

Next Steps

- Start Design of East Pond: September 2026
- Start Construction of West Pond: September/October 2026
- Complete Reconstruction of West Pond: March 2027
- Complete Design of East Pond: April/May 2027
- Complete Reconstruction of East Pond: TBD
- Provide regular Milestones Updates to the City Commission



Golden Gem Reclaim Water Facility Workshop

Presented by: Kevin Friedman, PE
Tetra Tech / Ardaman & Associates, Inc.

Existing Observations

1. Failures at the liner seams have resulted in leakage.
2. The liner material shows signs of deterioration.
3. Gravel or rock fragments are present in the soils directly beneath the liners, causing protrusions.
4. Isolated clayey deposits may create a perched water table above the pond bottom elevation.

Design Solutions

1. Evaluate the subsurface soils directly beneath the pond bottoms and side slopes to confirm they can adequately support the liner system.
2. Specify that the liner subgrade must be properly compacted and free of gravel or rock fragments.
3. Evaluate groundwater conditions to ensure hydrostatic uplift will not adversely affect the pond liners.
4. Provide gas release and drainage pathways beneath the liner.
5. Utilize a textured 60-mil-thick HPDE geomembrane liner, which is widely used for industrial leakage control applications, including many solid waste disposal facilities in Florida.
6. Provide a protective soil cover above the HDPE liner.
7. Implement a robust construction quality assurance program to verify that the liners are installed in accordance with the design specifications.

Groundwater Elevations

- Groundwater level characterization will be used to support design of pond/liner modifications
  - Pond bottom elevations
  - Liner design
- Initial historical data collection
  - Rainfall Data
  - On-site Soil Boring and Geotechnical Data
  - Upper Floridan Aquifer (UFA) groundwater levels
  - Surficial Aquifer System (SAS) groundwater levels
- Utilized to develop initial groundwater characterization
  - Groundwater level range
  - Seasonal high groundwater level

Groundwater Elevations (cont.)

- Historical data limited
- Additional data collection performed
  - Piezometers installation
  - On-going groundwater level data collection to capture beginning of wet season
- Additional data will be used to
  - Refine historical groundwater level characterization
  - Address request from SJRWMD to consider potential influence of stormwater pond to the north

Implementation Schedule

1. Separate the West Pond work from the East Pond work.
2. Prioritize returning the smaller West Pond back to service as soon as practical.
3. Design of the West Pond is currently targeted for completion in August of 2026, to be followed by bidding and construction. Anticipated construction completion date is March 2027.
4. A schedule for East Pond has not yet been established, as the immediate priority is restoring the West Pond to service.