

Data, Monitoring and Investigations Team (DMIT)

DMIT Hydrogeologic Annual Work Plan (FY2020-FY2025)



CFWI Steering Committee Meeting
February 21, 2020

Goal of DMIT

“Ensure that available hydrologic, environmental, and other pertinent data collected throughout the region are identified, inventoried, and accessible to support the CFWI technical initiatives and CFWI regulatory activities.”

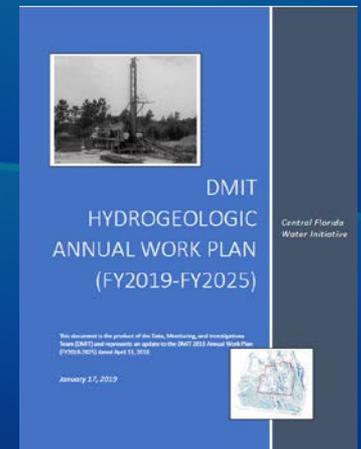


Major DMIT Tasks over past 6 years

- Created an inventory of existing monitoring data (DMIT CFWI Inventory)
 - GIS interface with links to data sources
- Determined data collection needs and developed work plan to meet those needs
 - Regional Monitoring Program Summary Report (June 2014)
 - First DMIT Hydrogeologic Work Plan FY 2015-FY2020
 - DMIT Work Plan is updated annually

DMIT Hydrogeologic Work Plan

- Purpose is to delineate a schedule and construction details for development of new hydrogeologic monitoring sites
- Resources monitored include
 - Wetland monitoring with transects and Surficial Aquifer wells
 - Regional water level monitoring
 - Surficial aquifer
 - Upper Floridan aquifer
 - Lower Floridan aquifer
 - Other Parameters such as Water Quality and Rainfall

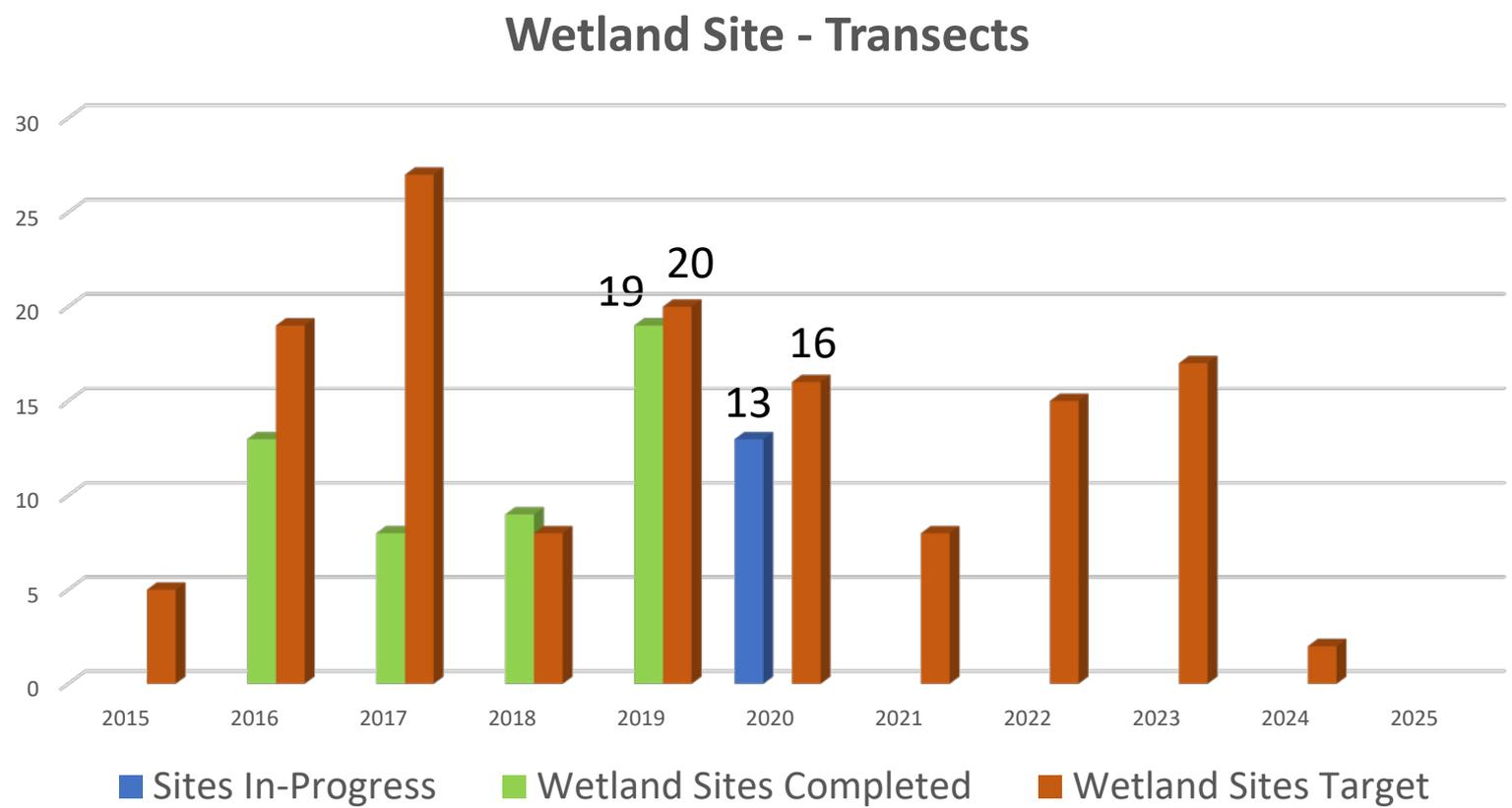


FY2015-FY2025 DMIT Well Status

	Wetland Sites	Wetland SA	General SA	UFA	LFA
2015	0	0	2	3	1
2016	13	4	5	4	2
2017	8	7	7	7	3
2018	9	5	8	6	2
2019	19	17	5	3	7
Total (2015-2019):	49	33	27	23	15
2020	16	14	5	9	8
2021-2025	42	37	26	14	13
Total (2015-2025):	107	84	58	46	36



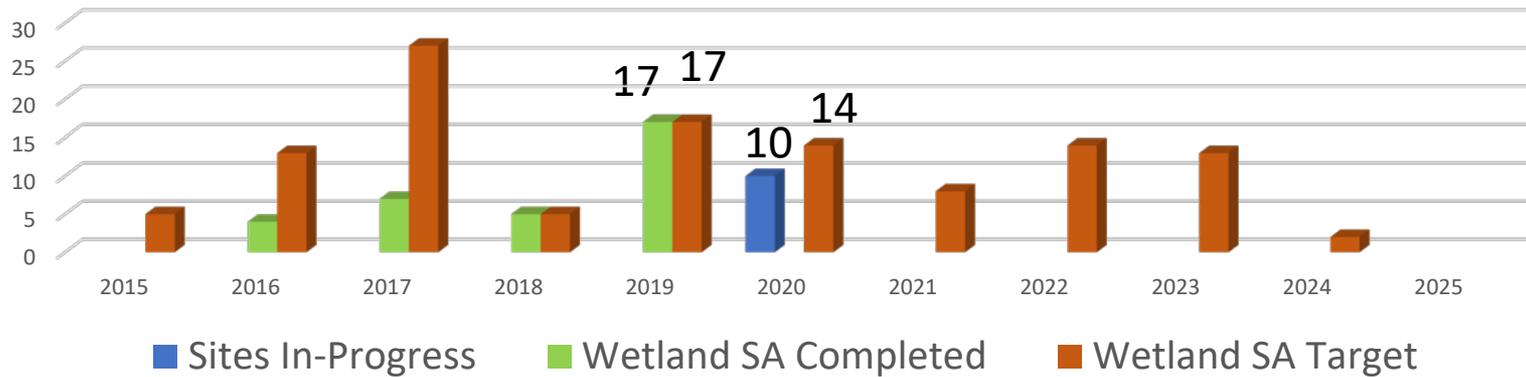
Wetland Site Transects Targeted/Completed



Only FY2020 in-progress sites shown. Targets not met are incorporated into future Work Plans as appropriate

Surficial Aquifer (SA) Wells Targeted/Completed

Wetland SA Wells

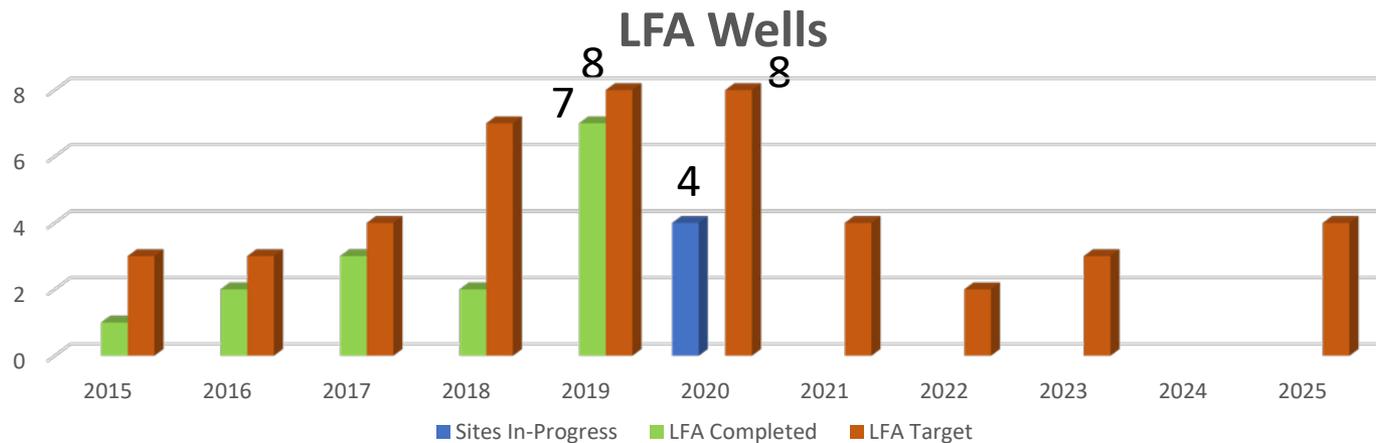
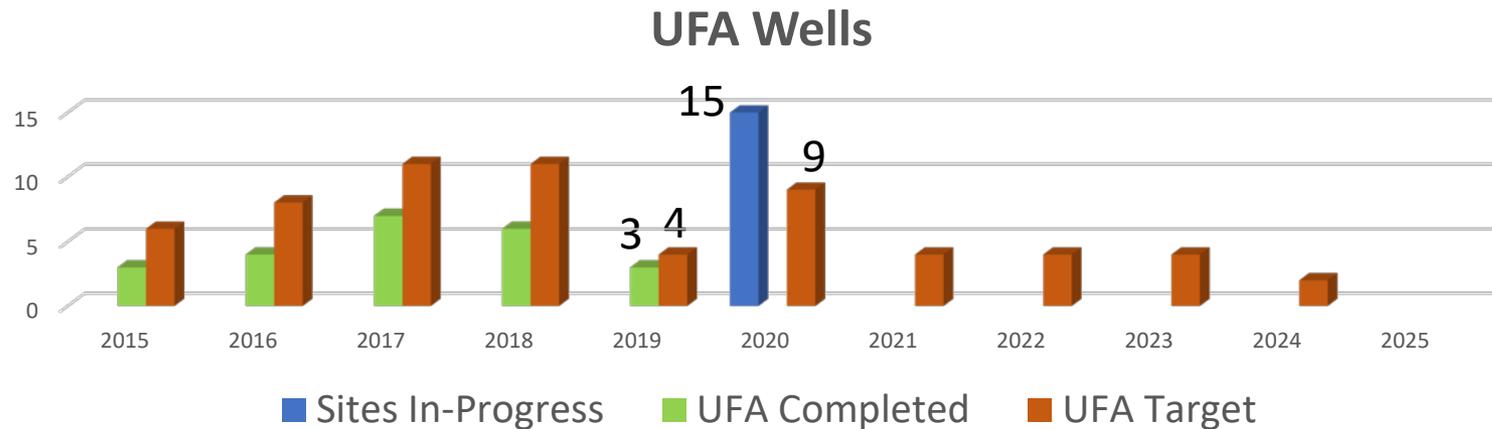


General SA Wells



Only FY2020 in-progress sites shown. Targets not met are incorporated into future Work Plans as appropriate

UFA/LFA Wells Targeted/Completed



Only FY2020 in-progress wells shown. Targets not met are incorporated into future Work Plans as appropriate

Additional Measures Being Implemented to Further Construction

- Coordinate with stakeholders to assist with site development
- Continue to identify District land opportunities



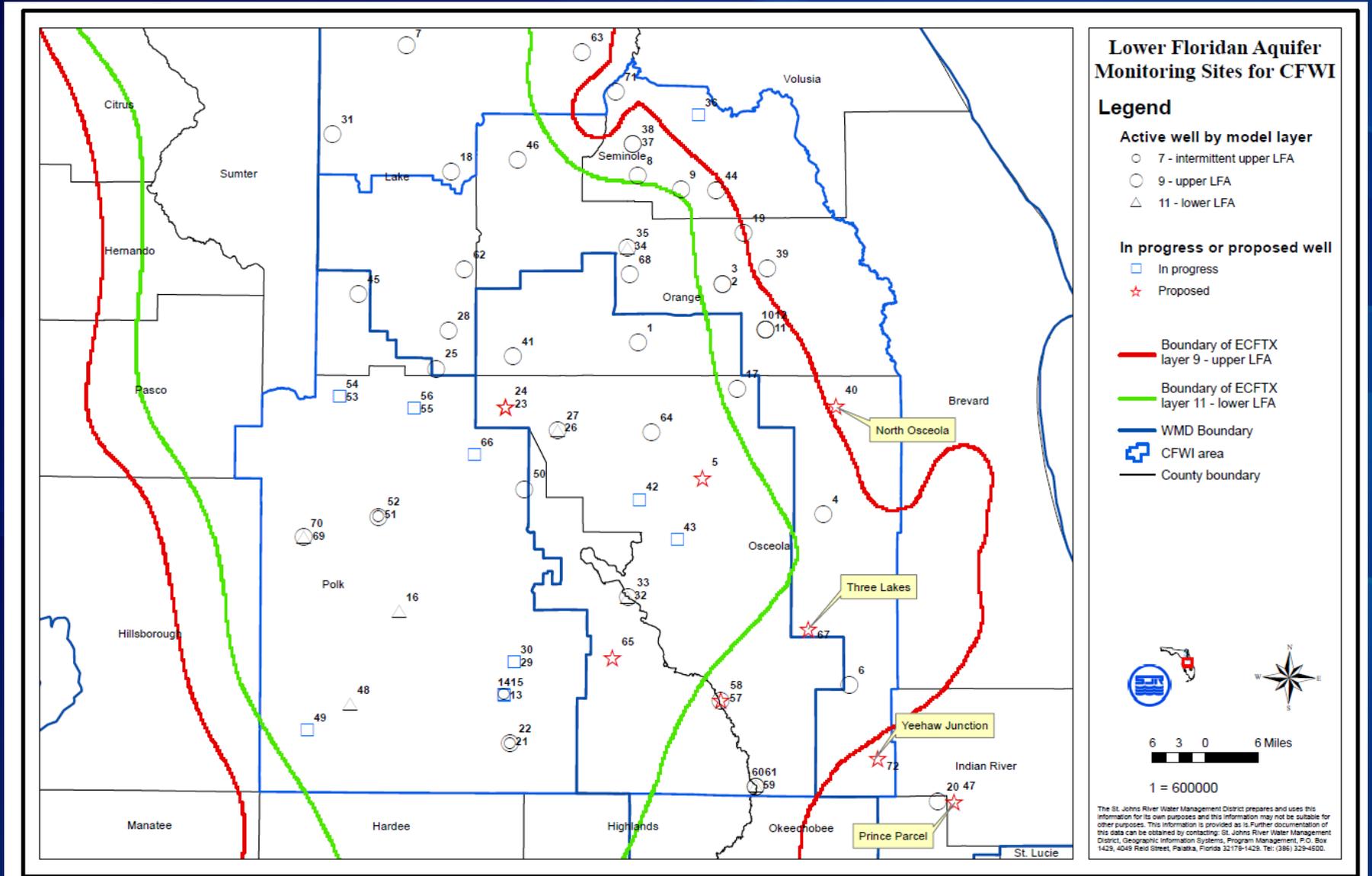
Implementation Costs

Fiscal Year	Total Implementation Costs (in millions)
2015	\$0.63
2016	\$0.70
2017	\$2.78
2018	\$3.51
2019	\$7.74
2020 ¹	\$9.16
2021-2025 ²	\$14.43
Total	\$38.95

¹Cost is budgeted but may be lower based on actual construction performed

²Cost is estimated for the five-year period and subject to the availability of Legislative appropriation or State funding.

Evaluation of Four Proposed LFA wells



Additional Activities in FY2019

- Uniform electronic database for storing wetland site data is 95% complete
- Met with DMIT stakeholders and other WRAT subteams to discuss remaining site locations
- Produced water quality maps for the GAT subteam
- Updated the DMIT CFWI Inventory



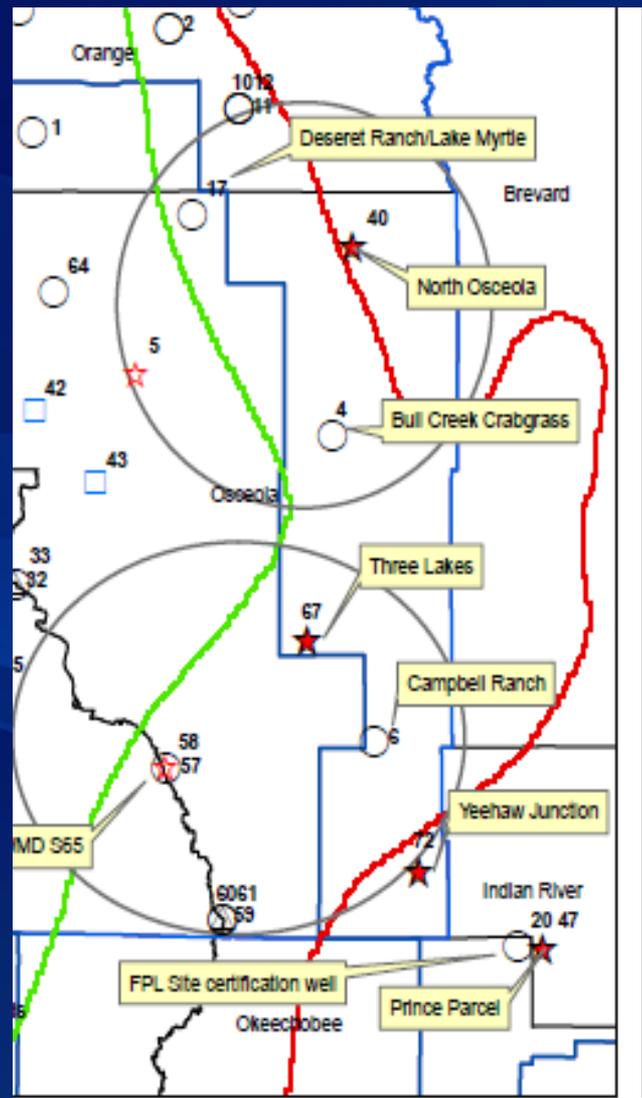
Action Item

DMIT requests approval of the DMIT Hydrogeologic Annual Work Plan (FY2020-2025)



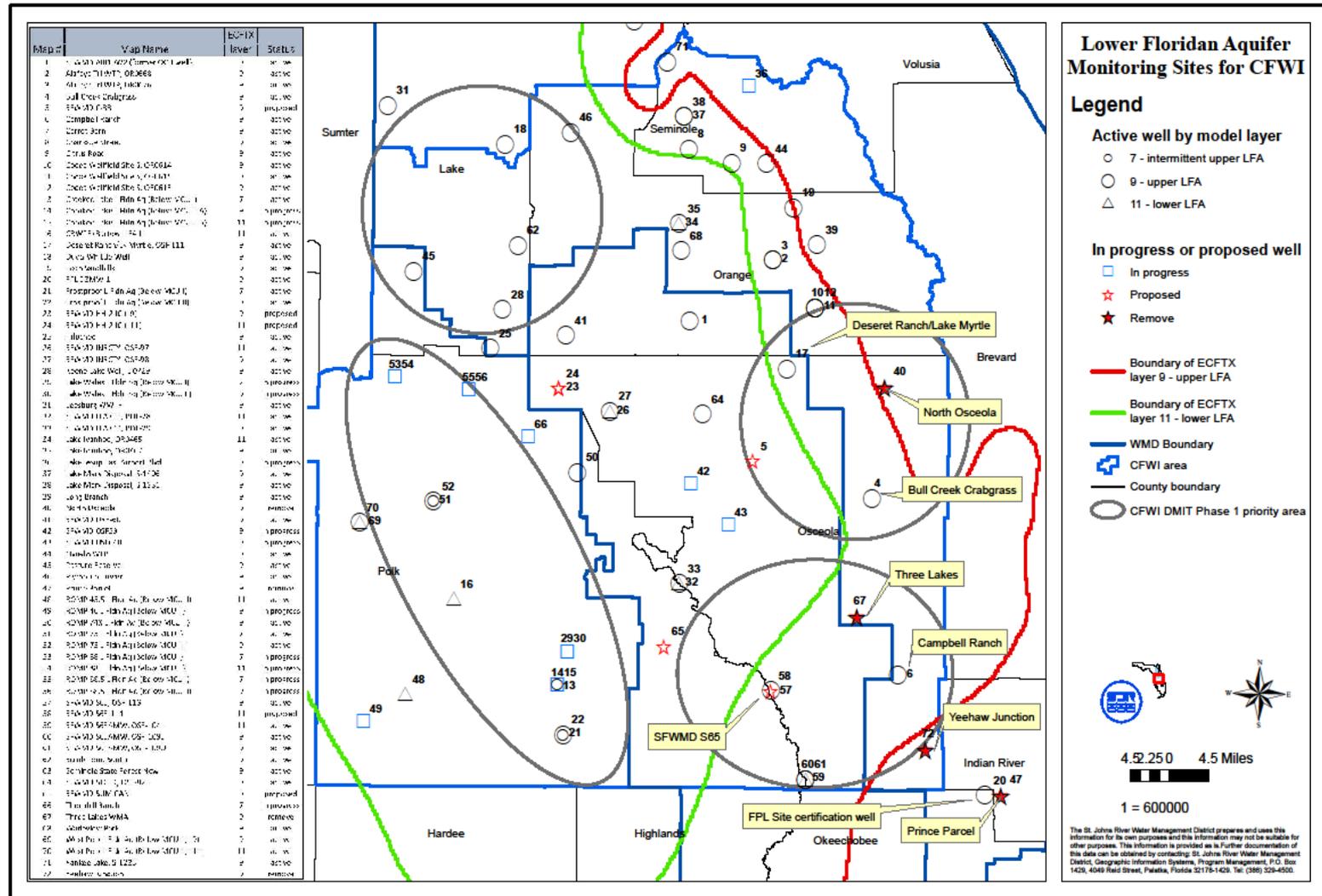
Extra Slides

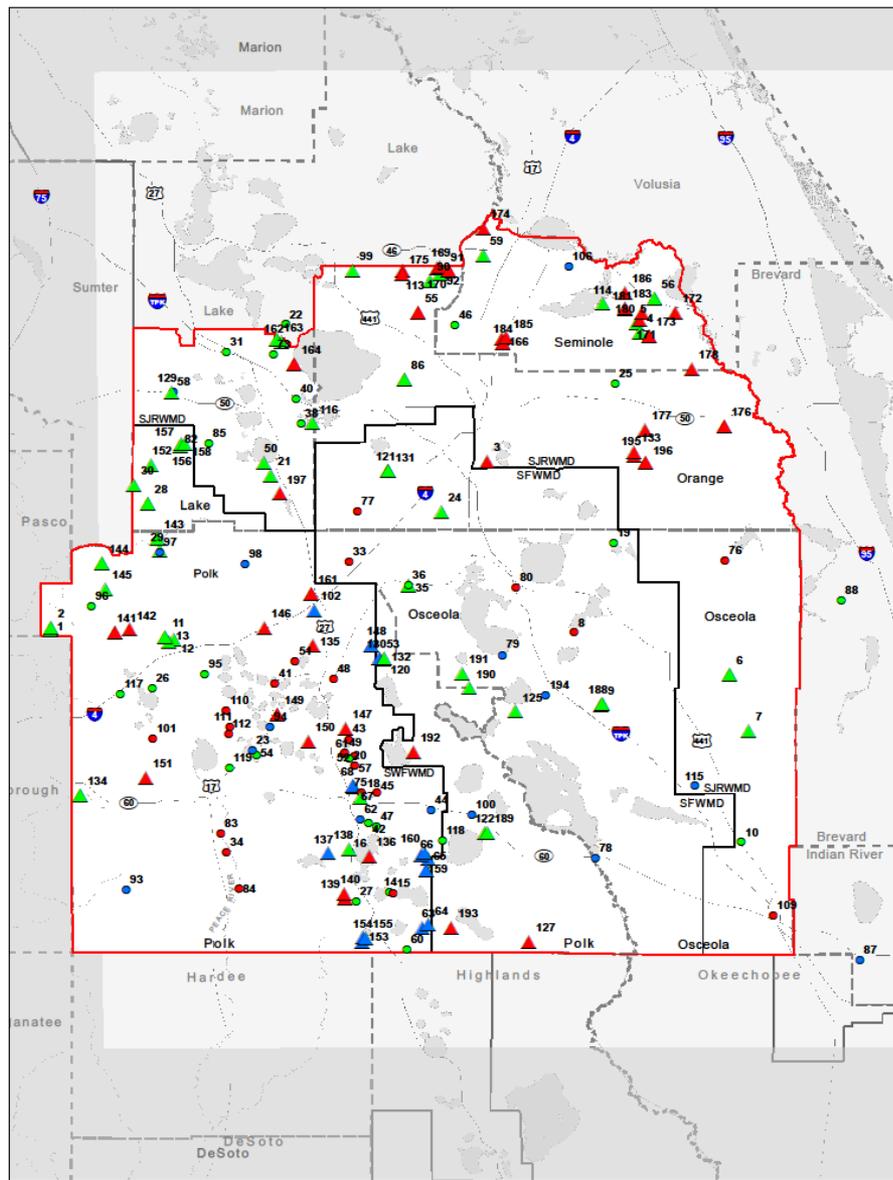
Four LFA wells within SJRWMD



★ Four LFA Wells

Evaluation of Four Proposed LFA wells





Status of DMIT Sites

- △ Wetland
- Well(s)
- Green = Completed
- Blue = In Progress
- Red = Proposed
- Red outline = CFWI Boundary
- Dashed line = County Boundaries
- Black outline = Water Management District Boundaries

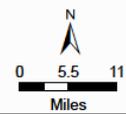
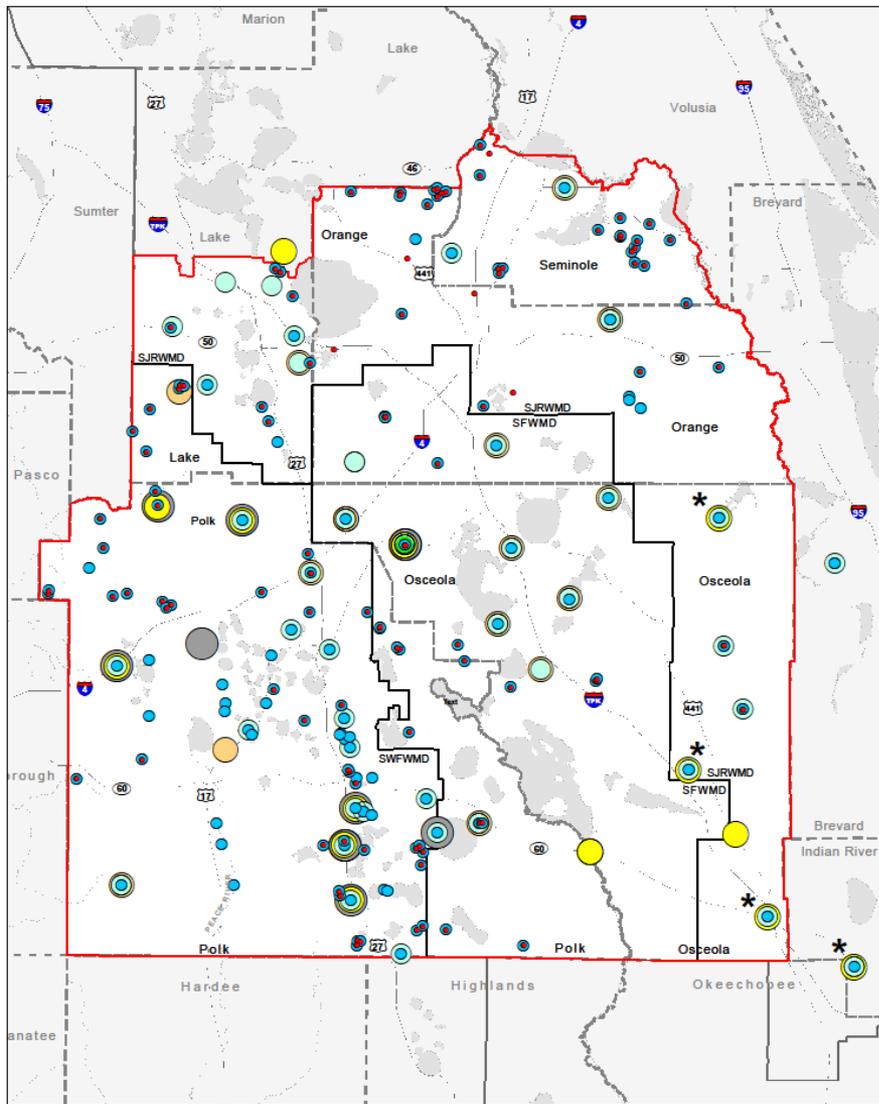


Figure 1: Status of DMIT Sites (February 2020)

Note: 2 wetland sites planned but not mapped for SFWMD





CFWI All DMIT Sites By Monitored Resource February 2020 Update

DMIT Sites By Monitored Resource



- Wetlands
- Surficial Aquifer (Model Layer 1)
- ICU/HCU (Model Layer 2)
- Upper Floridan Aquifer (Model layer 3, 4, 5)
- Lower Floridan Aquifer:**
 - Model Layer 7
 - Model Layer 9
 - Model Layer 11

- ▭ CFWI Boundary
- - - County Boundaries
- ▭ Water Management District Boundaries

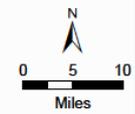


Figure 2: DMIT Sites by Monitored Resource (February 2020)

Note 1: 1 wetland site planned but not mapped for SFWMD
 Note 2: Model Layers are for ECFIX models

