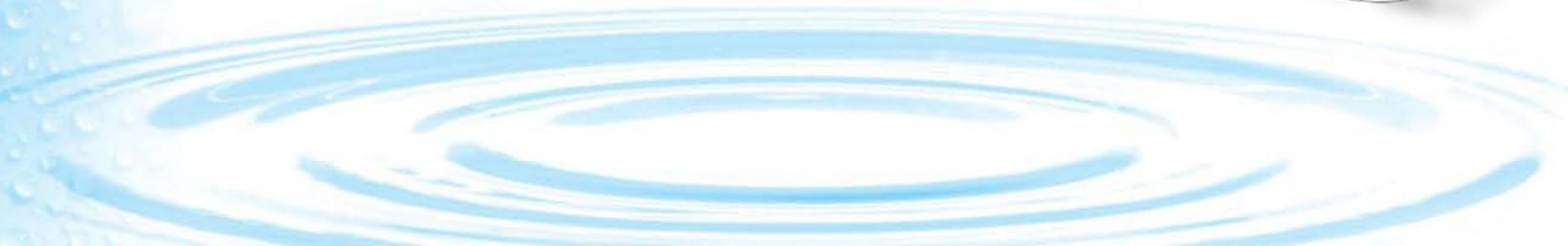
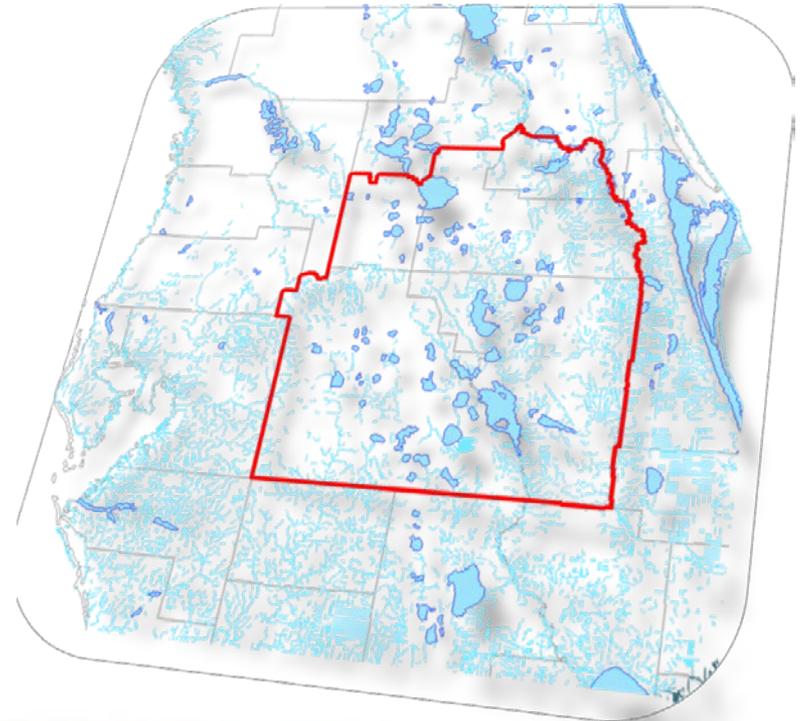


Modeling Update

**Steering Committee
November 14, 2014**

Presented by: Mark Hammond



Groundwater Sub-team Project Evaluations

| Project | Supply (mgd) |
|--------------------------------|--------------|
| South Lake Wellfield | 12.7 |
| Cypress Lake Wellfield | 20.5* |
| SE Polk Co Wellfield | 30 |
| Polk Co. Distributed Wellfield | 9.8 |

*Total Project is 30 mgd.

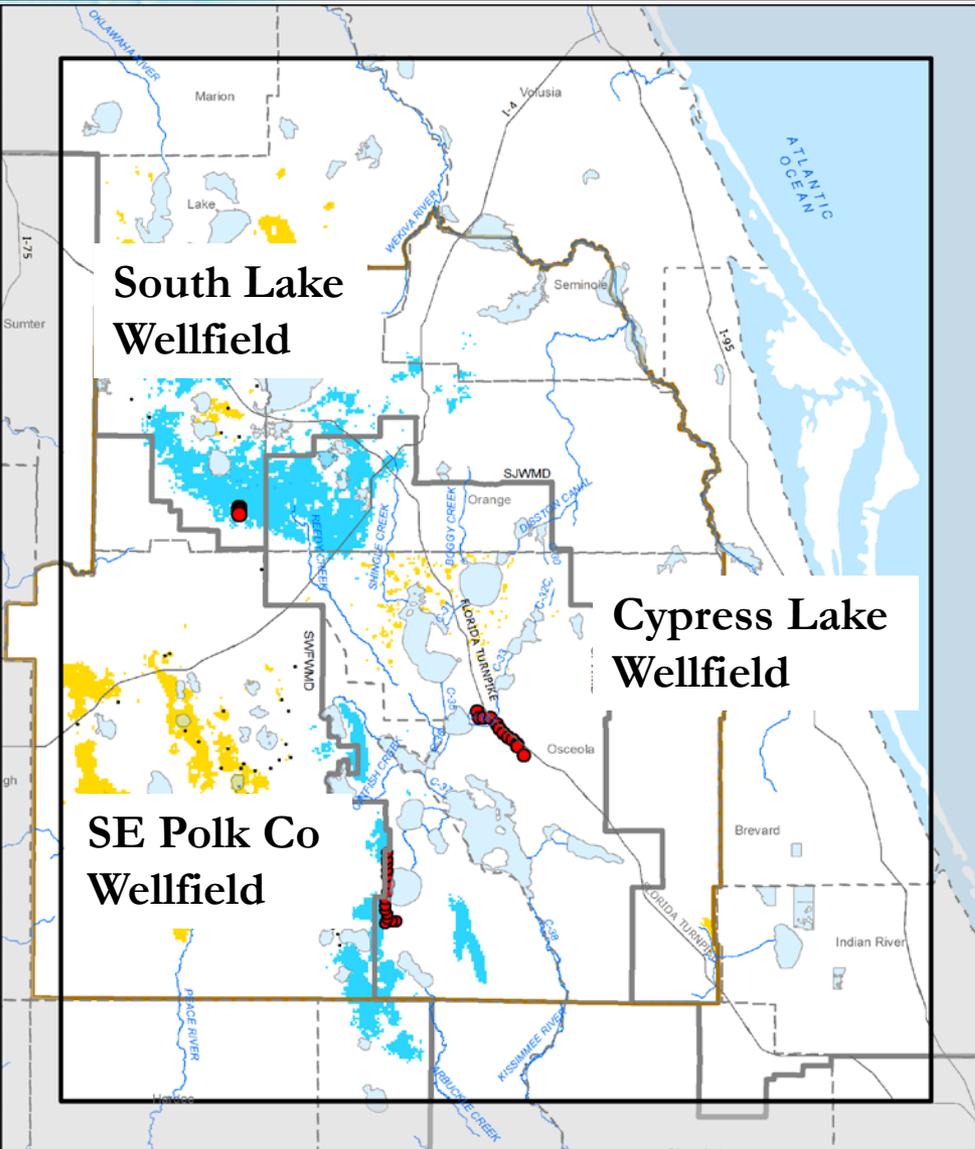
Central Florida Water Initiative

Scenario 2

3 Lower Floridan Wellfields

1. Cypress Lake – 20.5 mgd*
2. SE Polk Co – 30 mgd
3. South Lake – 12.7 mgd

*Total water supply planned for Cypress Lake Wellfield is 30 mgd.



Scenario 2 Minus 2015 P50 Head Difference

| Pumping | | Layer 1 | | Layer 2 | |
|-----------------|--------------|-----------------|---------------|-----------------|-----------------|
| Head Difference | Feet | Head Difference | Feet | Head Difference | Feet |
| 0.01 - 1.65 | >10.00 | 2.01 - 3.00 | 10.01 - 15.00 | -1.99 - -1.00 | -15.00 - -10.00 |
| 1.66 - 2.06 | 5.01 - 10.00 | 1.01 - 2.00 | 10.01 - 15.00 | -2.99 - -2.00 | -10.00 - -5.00 |
| 2.07 - 2.62 | 3.01 - 5.00 | 0.26 - 1.00 | 0.26 - 1.00 | -4.99 - -3.00 | -5.00 - -10.00 |
| 2.63 - 3.30 | | -0.24 - 0.25 | | -9.99 - -5.00 | |
| | | -0.99 - -0.25 | | <-10.00 | |

Prepared by: RESM
 Date: 9/3/2014
 Map: ECFT_F50DifferenceSep2014.mxd

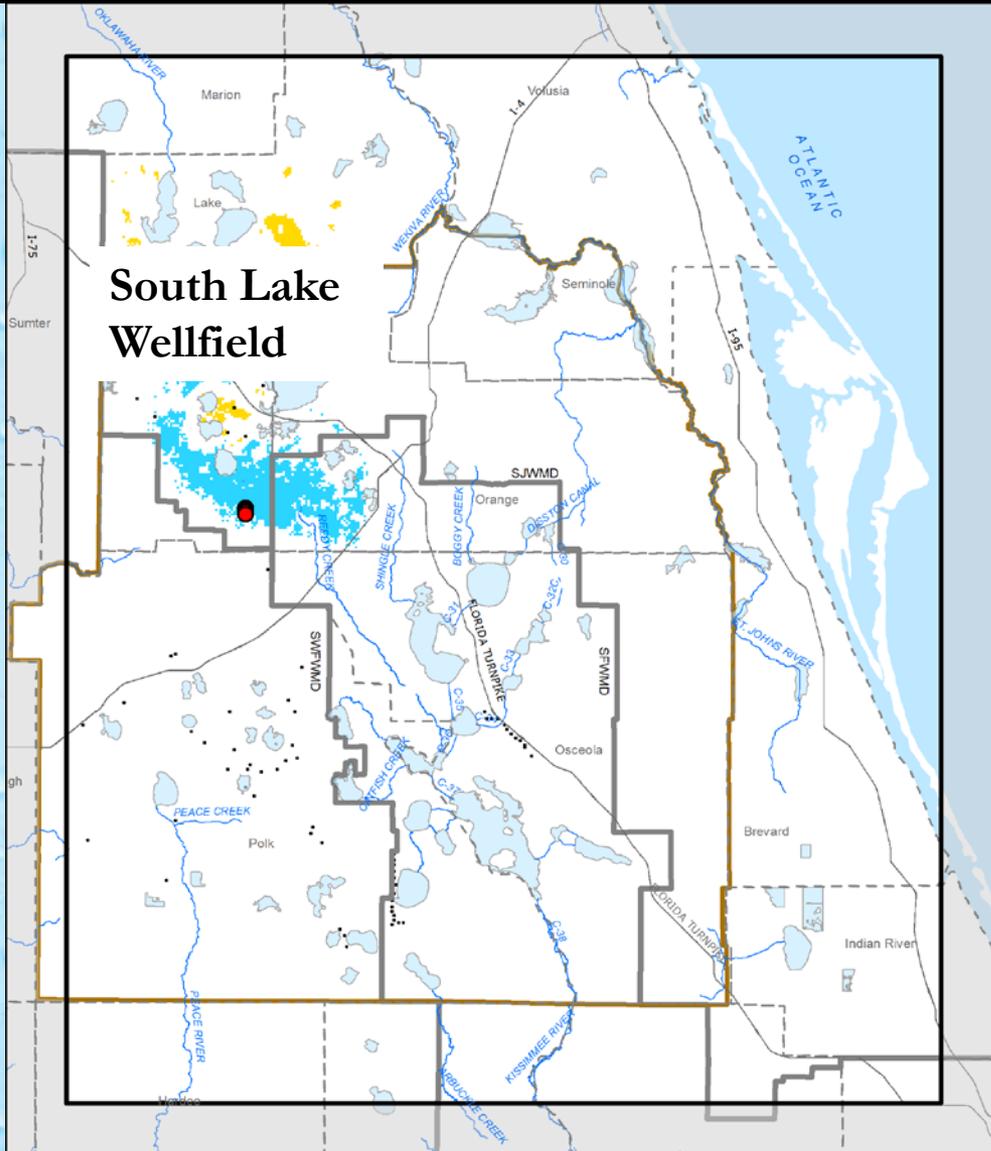
0 5 10
 Miles

CFWI/ECFT Area

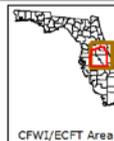
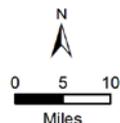
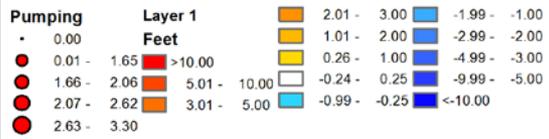
Central Florida Water Initiative

Scenario 2a

South Lake Lower Floridan Wellfield
(Concentrated) – 12.7 mgd



Scenario 2a Minus 2015
P50 Head Difference



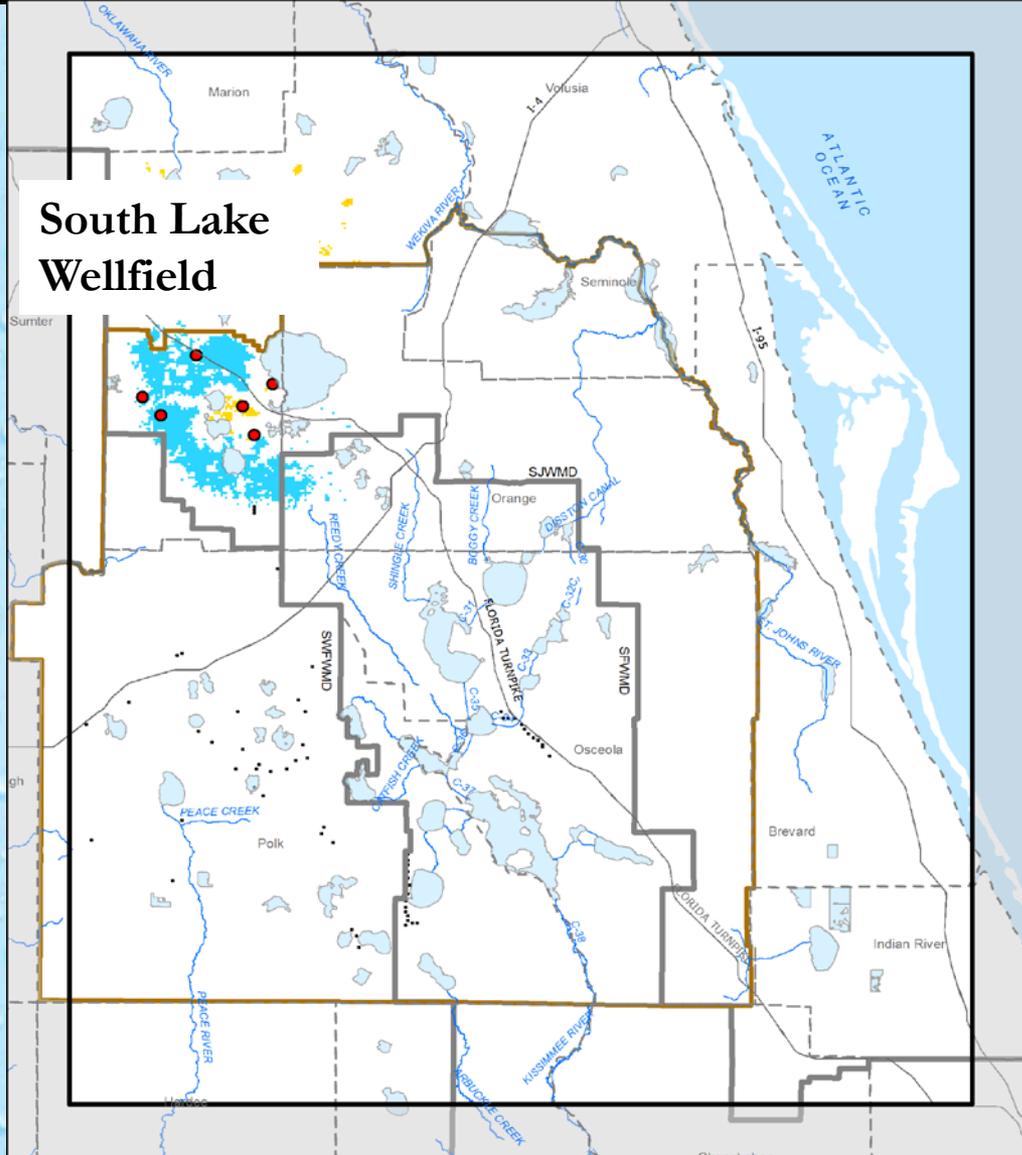
Prepared by: RESM
Date: 9/3/2014
Map: ECFT_P50DifferenceSep2014.mxd

Central Florida Water Initiative

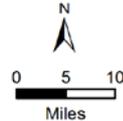
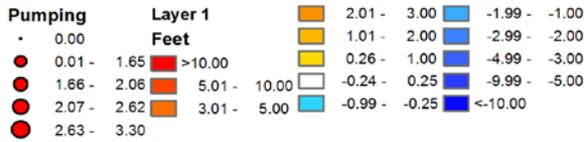
South Lake Wellfield

Scenario 2b

South Lake Lower Floridan Wellfield
(Distributed) – 12.7 mgd



Scenario 2b Minus 2015
P50 Head Difference



Prepared by: RESM
Date: 9/3/2014
Map: ECFT_P50DifferenceSep2014.mxd

Project Concept Model Scenarios

1. Shift withdrawals from the UFA to the LFA
2. Change withdrawal locations away from sensitive areas
3. Targeted Recharge
4. Distributed versus concentrated withdrawals from the LFA
5. Benefit of increasing return flow (Can return flows from non-groundwater AWS projects improve environmental conditions?)

Project Concept Model Status

| | |
|---|---------|
| Step 1 – Scenario Development | Done |
| Step 2 – Model Execution | Done |
| Step 3 – Results/Environmental Evaluation | Ongoing |

Environmental Evaluation Team Status

- **Task 1**: Review and assess areas of environmental sensitivity
 - Draft map completed

- **Task 2**: Evaluate projects in areas of environmental sensitivity
 - Draft map completed

Environmental Evaluation Team Status

- **Task 3**: “evaluate projects for MFL water body impacts”
 - Minimum Flows and Reservation Team “free board analysis”
 - Round 1 scenarios completed – round 2 underway

- **Task 4**: “evaluate projects for non-MFL water body impacts”
 - Environmental Measures Team “risk-based” analysis
 - Round 1 scenarios completed – round 2 underway