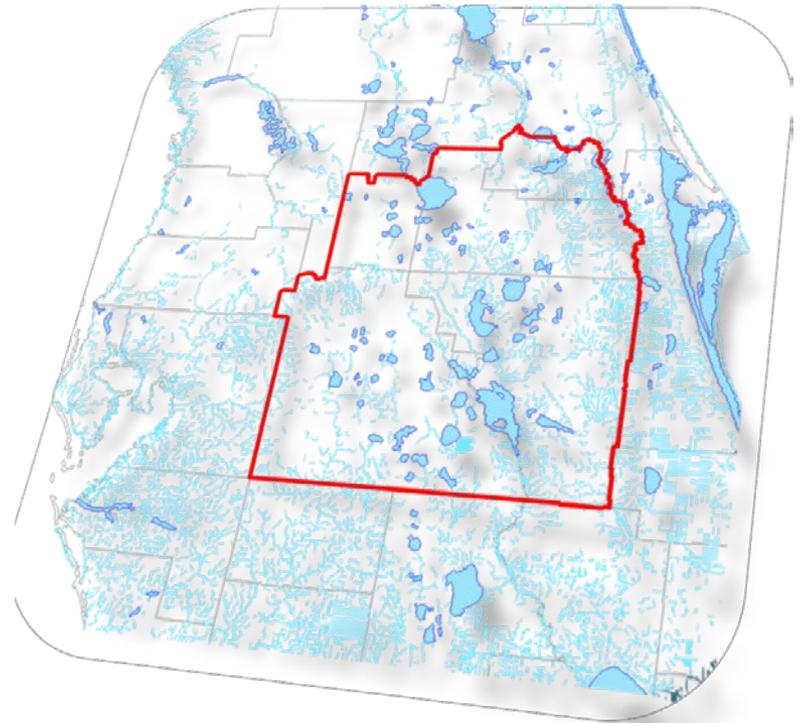


# Steering Committee Meeting

May 8, 2015

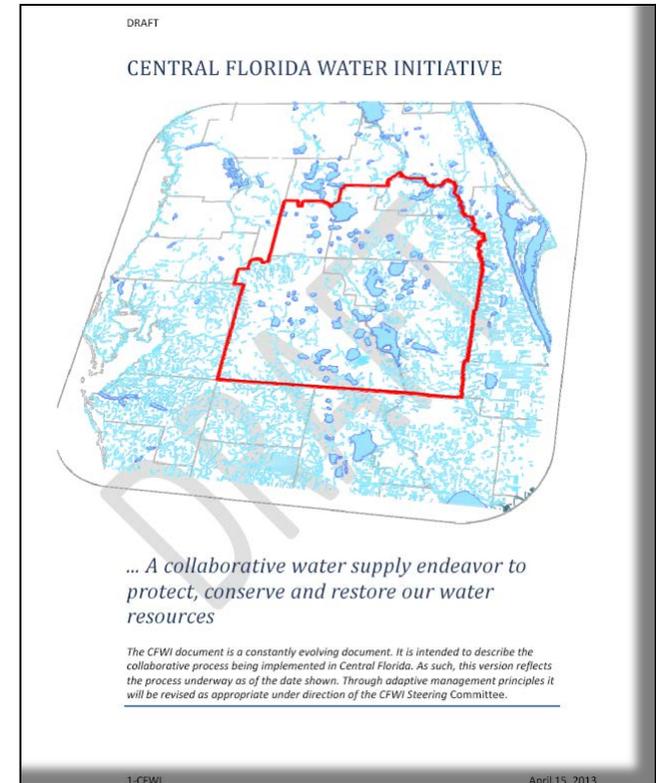
*Solutions Planning  
Team*



**Mark Hammond, P.E.**  
SWFWMD

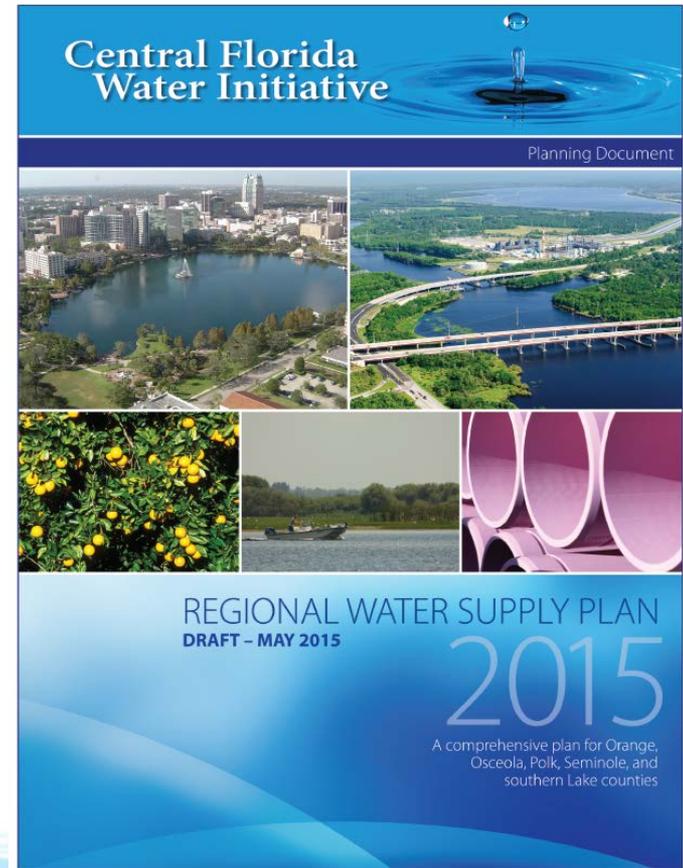
# Guidance Document Principles

1. Identify sustainable quantities of groundwater sources
2. Develop strategies to meet water demands
3. Establish consistent rules



# One RWSP for the CFWI Region

- Collaborative effort
- Scientific foundation
- Stakeholder driven
- Demands from all categories
- Potential sources and projects
- Water resource evaluation
- Funding mechanisms
- Update every 5 years
  - 20-year planning horizon



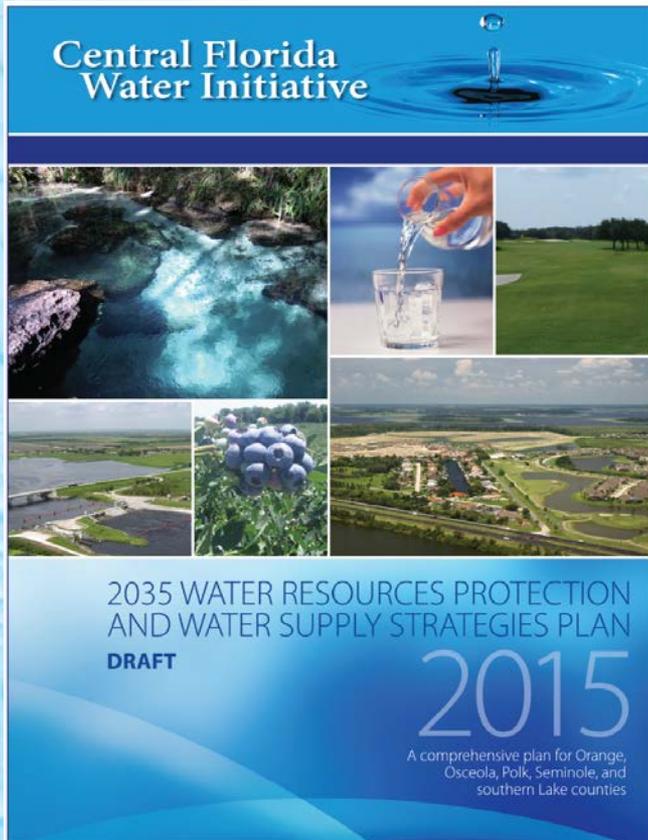
# Solutions Team

- Subtasks:
  - Review regional alternatives
  - Develop water supply and conservation options
  - Identify partnerships/encourage interconnects
  - Identify need for recovery/prevention
  - Monitoring/Assessment in conjunction with DMIT
  - Workshops and public meetings
  - Identify funding needs for regional projects

# 2035 Water Resources Protection & Water Supply Strategies Plan

## CFWI Solutions Plan

- **Executive Summary**
- **Chapter 1: Introduction**
- **Chapter 2: Water Conservation**
- **Chapter 3: Solutions Project Options**
- **Chapter 4: Environmental Evaluation**
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- **Appendices**



# Key Findings

## Solutions Phase

- Water conservation is an important element
- Sufficient options to meet the regions' needs through 2035
  - 150 options – more than 334 mgd
- Conceptual management strategies can be developed into specific projects
- Stakeholder engagement has and will continue to be important
- Project cost estimates scenario
  - \$2.8 billion for 225 mgd
- Establishment of consistent rules and regulations to be developed to implement the results of CFWI Planning effort
- Implementing results of CFWI is critical to long-term sustainability

# Implementation Strategy

- Implement Water Conservation Programs
- Develop Specific Prevention and Recovery Projects
- Support Development and Implementation of Regional Project Solutions
- Support Additional AWS Projects
- Improve Water Resource Assessment Tools and Supporting Data
- Develop Options for Consistent Rules and Regulations
- Continued Communication and Outreach
- Identify Options for Future CFWI Framework to Support Implementation Strategies

# Water Conservation

- 5-year Plan
  - Public Supply & Other Self Supply
    - 10 BMPs
  - Adopt High-Efficiency Standards
    - Landscape and Irrigation Systems
    - Plumbing Fixtures and Appliances
  - Public Education
  - Clearinghouse/Conservation Planning Tools/Research
  - Agriculture (Programmatic Approach)
    - 7 BMP categories
    - Includes training workshops, on-site demonstrations, mobile labs and support for Extension Services

# Prevention and Recovery

- \$2 million in 2016 and \$1.5 million in 2017
  - Evaluate recovery options for 3 waterbodies
  - Options include
    - Conservation
    - Recharge
    - Relocation of withdrawals
    - Development of AWS

## Solutions Planning Team Priority Projects

Projects	Total Quantity	Year 1 (MIL \$)	Year 2 (MIL \$)	Years 3-5 (MIL \$)	Total Cost (Mil \$)
Conservation (All)	36.8 mgd	3.8	6.1	24.5	170.0
Recovery Projects		2.0	1.5	10.0	50.0
Data Monitoring & Investigation		3.0	7.5	23.1	34.1
Other Investigations		1.3	3.3	3.7	8.9
<b>Groundwater Projects</b>					
South Lake County Wellfield	12.7 mgd			60.7	116.5
Cypress Lake Wellfield	30 mgd	14	25.8	153.7	374.3
Southeast Polk County Wellfield (centralized)	30 mgd	2.4	2.6	129.5	284.6
<b>Reclaimed Water Projects</b>					
Project RENEW	9.2 mgd			24.6	50.5
West Ditch Stormwater for Reuse Augmentation	0.9 mgd	1.6	2.3	11.0	28.2
160-ac Site Indirect Potable Reuse	4.5 mgd	0.6	0.7	6.4	7.7
TECO Polk Power Reuse	10 mgd				97.0
AFIRST/Altamonte Springs	4.5 mgd				15.0
<b>Surface Water Projects</b>					
St. Johns River/Taylor Creek Reservoir	54 mgd	■	■	10.0	637.6
St. Johns River near State Road 46	40 mgd	■	■	■	584.3
St. Johns River near Yankee Lake	40 mgd		2.0	20.0	536.7
Polk Regional Alafia River Basin	10 mgd				263.4
Grove Land Reservoir and Stormwater Treatment	122.4 mgd raw water	3.0	3.0		435.4
<b>Stormwater Projects</b>					
Judge Farms Reservoir and Impoundment	5 mgd	0.5 ■	17.7	6.8	28.3
Lake Wailes Stormwater Mitigation	1.4 mgd		1.2	12.4	13.6
Reedy Creek Watershed	4 mgd				1.6
<b>Total Financial Plan</b>	224.5 mgd	32.2	73.7	496.4	2,775.7
<b>Total Solutions Projects</b>	415.4 mgd				3,737.7

# Central Florida Water Initiative

## DRAFT Solutions Planning Team Financial Plan

	Year 1		Year 2		Year 3-5		Year 6-10		Year 11-20		Total	
Category/Project	Funds (Mil/\$)	Water (MGD)	Funds (Mil/\$)	Water (MGD)								
<b>Conservation</b>												
Ag Programmatic Approach	1.0	0.4	1.0	0.4	3.0	1.3	2.6	1.1	2.4	1.0	10	4.3
Public Water Supply and Other Self Supply (includes education)	2.8	0.5	5.1	1.0	21.5	4.8	44.2	8.7	86.4	17.5	160	32.5
<b>Environmental Recovery</b>												
Recovery Projects	2		1.5		10		16.5		20		50	
<b>Research &amp; Investigation</b>												
Data, Monitoring and Investigations	3		7.5		23.1		0.5				34.1	
Other Investigation	1.3		3.3		3.7		0.6				8.9	
<b>Alternative Water Supply Projects</b>												
Groundwater Projects	16.4		28.4		344		211.5	32.7	175.2	40	775.5	72.7
Reclaimed Projects	2.2		3		41.9	9	39	5.6			86.1	14.6
Surface Water Projects	3		5		30		288.5	12.4	1282.6	81.6	1609.1	94
Stormwater Projects	0.5		18.9		19.2	6.4	3.3				41.9	6.4
<b>Sub Total</b>	<b>33.2</b>	<b>0.9</b>	<b>74.7</b>	<b>1.4</b>	<b>499.5</b>	<b>21.5</b>	<b>606.7</b>	<b>60.5</b>	<b>1566.6</b>	<b>140.1</b>	<b>2,775.7</b>	<b>224.5</b>

# Support Additional AWS Projects

## Updated Water Supply Project Options:

- 37 brackish/nontraditional groundwater
- 87 reclaimed water
- 17 surface water
- 6 stormwater
- 3 management strategies

# Improve Tools and Data

- DMIT Work Plan
  - \$34.1 million
  - Construct and equip 292 monitoring stations
- Update the ECFT Groundwater Model
  - \$0.8 million
- Stormwater
  - Develop recharge project options
  - \$2 million
- Reclaimed Water/Direct Reuse Options
  - Demonstration project
  - \$5.5 million

# Implementation Strategy

- Implement Water Conservation Programs
- Develop Specific Prevention and Recovery Projects
- Support Development and Implementation of Regional Project Solutions
- Support Additional AWS Projects
- Improve Water Resource Assessment Tools and Supporting Data
- **Develop Options for Consistent Rules and Regulations**
- **Continued Communication and Outreach**
- **Identify Options for Future CFWI Framework to Support Implementation Strategies**

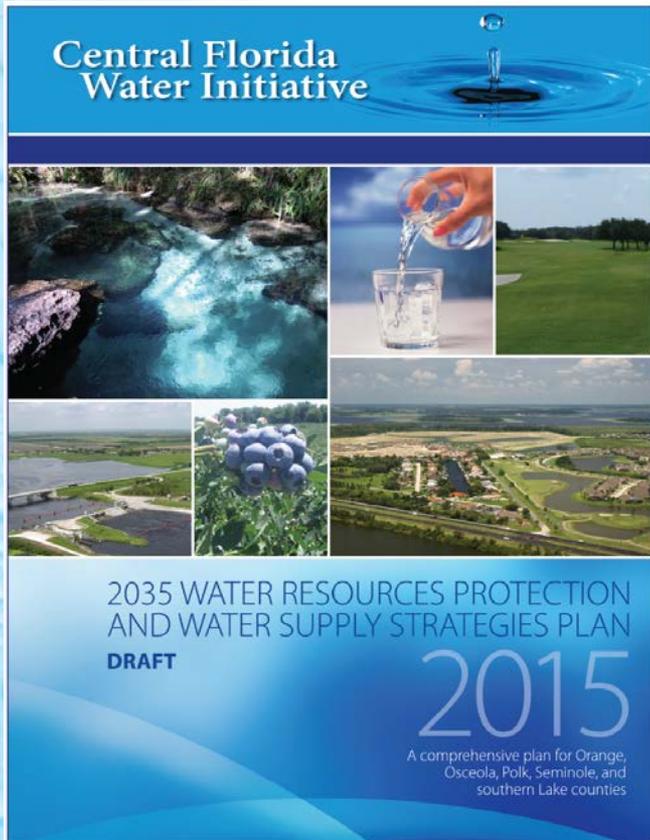
# Reporting

- Annual Status Reporting
  - Progress on implementation strategies and regional projects
  - DMIT
  - Others
- Process for a 5-year assessment and update

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# CFWI Plan Schedule

## May/June/July

- May 8 Steering Committee Meeting
  - Approve Draft CFWI Document Series for Public Review
- Public review period
  - Post to website May 8
  - Extended Review Period - ~82 days
  - Ends July 31

## August/September

- Finalize CFWI Document Series

## October

- Steering Committee Meeting
  - Approve CFWI Document Series for Board Approval

## November

- District Governing Board Meetings
  - Approve CFWI Document Series

# Action

- Approve the CFWI Plan for release for public review and comment.

**Questions?**



## 2015 Outreach Activities

- ✓• Government/business focus groups
- ✓• Pre-meetings with environmental, agriculture and business stakeholders
- Feedback sessions with environmental, agriculture and business/government stakeholders (May 18, 20 and 21)
- Traditional public meetings in Winter Haven and Winter Garden (June 1 and 4)
- Media/speaking engagements (ongoing)