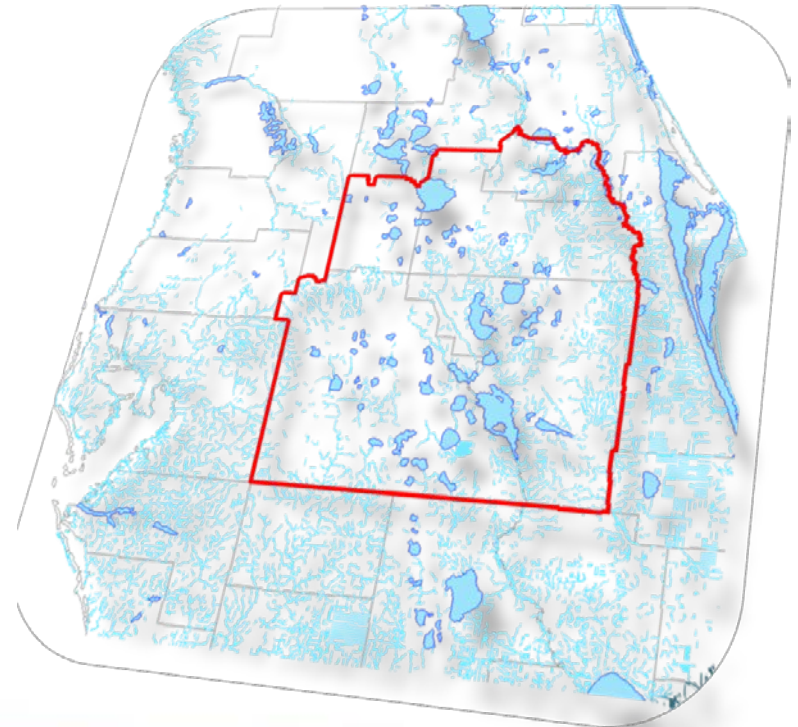


Solutions Team Meeting

November 21, 2013

Sub-Team Regional Project Distribution

Tom Bartol
RWSP Team Lead



Water Demand by Category

Category	2010	2015	2035
Public Supply	435	476	653
Domestic Self-Supply and Small Utilities	21	21	25
Agriculture	185	219	215
Commercial / Industrial / Institutional & Mining / Dewatering	74	71	96
Power Generation	17	18	22
Landscape / Recreational / Aesthetic	40	45	72
Total	772	850	1,083

Demand is shown in million gallons per day

Water Demand by County

Category	2010	2015	2035
City of Cocoa	24	25	31
Lake*	54	61	91
Orange	244	262	354
Osceola	105	150	196
Polk	271	274	321
Seminole	74	78	90
Total	772	850	1,083

Demand is shown in million gallons per day.

* Demand is only shown for portion of Lake County in CFWI.

Solutions Team Goal

Develop 250 mgd of additional supplies to meet the total projected regional water supply demands.

Solutions Team

Regional Projects

- **Multi-jurisdictional solutions that serve more than one utility.**
- **Should quantity/water produced be considered?**


Solutions Team Sub-teams

- Surface Water
- Groundwater
- Reclaimed Water
- Recovery/Prevention
- Conservation & Other Mgmt Strategies (Ag & Urban Landscape)
- Other - Stormwater, Dispersed Storage, etc.



Solutions Team Sub-teams

Basic Project Questions

1. Identify regional water supply project (Provide a concept diagram and description)
 2. Cost-benefit analysis of yield (\$ per thousand gallons)
 3. Cost estimates (Capital & Annual O&M)
 4. Identify water resource constraints
 5. Identify potential partners and governance options
 6. Pumping, storage and transmission configurations
- 

Solutions Team Sub-teams

Basic Project Questions

7. Project feasibility, permitability and estimated property requirements
8. Funding sources
9. Identify regional water supply project limitations or constraints resulting from the inconsistency of the rules
10. Other considerations – public concerns or non-technical obstacles
11. Estimated implementation schedule

Reclaimed Water

- In 2010 wastewater flows in the CFWI were 193 mgd
 - 105 mgd irrigation and industrial uses
 - 73 mgd aquifer recharge or environmental enhancement
 - 15 mgd disposal

- By 2035 wastewater flows in the CFWI are projected to be 314 mgd
 - 121 mgd additional wastewater flows available by 2035 for beneficial reuse and recharge
 - Not including 15 mgd of current disposal

Recovery/Prevention

- Where and when will recovery be needed?
- Coordinated Recovery/Prevention
 - SWFWMD continuing with SWUCA Recovery Strategy
 - SJRWMD reinitiating R/P in January 2014
- How much water will be needed to meet recovery and prevention?
- What additional data and monitoring will be needed to fully assess prevention and recovery?

CONSERVATION & OTHER MGMT STRATEGIES (AG & URBAN LANDSCAPE)

Water Demand Category	Projected 2035 Demand (mgd)	Projected 2035 Conservation (mgd)
Public Supply	653	27
Domestic Self-Supply	24	1.2
Agriculture	215	11
Landscape/Recreational/Aesthetic	72	2
Commercial/Industrial/Institutional	96	1.2
Power Generation	22	0.3
Total	1,083	42

CFWI Water Supply Project Summary

Project Category	Project Options	Estimated Water Generated (mgd)	Total Capital (\$M)
Surface Water	15	184 to 209	\$1,871 to \$2,035
Brackish Groundwater	35	45 to 75	\$482
Fresh Groundwater	TBD	0 to 75	TBD
Reclaimed Water	TBD	TBD	TBD
Conservation & Other Management Strategies (AG & Urban Landscape)	TBD	42	\$451
Recovery/Prevention	TBD	TBD	TBD
Other - Stormwater, Dispersed, Storage, etc.	2	4	\$27
Total	136	275 to 405	\$2,831 to \$2,995

Project Potential

Solutions Team Goal

250 mgd

7 Largest Projects

242 mgd
(97% of Goal)

Reclaimed Water

TBD

Conservation

42 mgd
(17% of Goal)