CFWI Water Conservation Sub-Team Draft Scope of Work

Steering Committee Guidance

Through its Guiding Document and motions passed at Steering Committee meetings, the Central Florida Water Initiative (CFWI) has provided direction to the collaborative technical teams working to achieve the goals of the CFWI. In furtherance of the stated goals, the Steering Committee created the Solutions Planning Team (SPT) and approved its associated scope of work. The SPT's scope of work, at item G3, provides for creation of various sub-teams that are to assist with all technical aspects of the CFWI 2035 Water Resources Protection and Water Supply Strategies document. This Conservation Sub-Team was created as a part of this direction and was charged with developing a sub-team scope of work geared toward providing technical support to the SPT's effort. The role of the SPT's sub-teams is technical in nature and will be limited to fact finding and technical analysis. Accordingly, all evaluations and options must be presented to the Steering Committee for consideration. The Sub-Team is not to make any policy decisions, recommendations, or prioritize options. The Conservation Sub-Team shall work pursuant to the instruction of the Steering Committee as set forth in the Guiding Document and as may occur at regularly scheduled Steering Committee meetings. The following statement of the Conservation Sub-Team's effort shall occur in accordance with the above stated principles and this Steering Committee's direction:

Team Leader: Jim Fletcher

Team Composition

The Team Leader is Jim Fletcher with the University of Florida IFAS Extension Service. The Water Conservation Sub-Team is made up of representatives from the three water management districts and technical representatives of agricultural businesses, public water supply utilities, and environmental organizations.

Team Goal

Identify and evaluate options for water conservation projects and programs that would reduce future demands by a minimum 42MGD. Projects for all water use sectors should be evaluated.

Team Approach

The team will work within a collaborative environment under the guidance and direction of the Steering Committee with open and full information sharing as well as joint responsibilities and accountability for completing team assigned work products.

Team Objectives and Team Scope of Work:

Work collaboratively with other CFWI Solutions Planning Phase Sub-Teams to execute the following scope of work:

1. For the agriculture, public supply and other self-supply categories, and sub-categories within, identify options for water conservation projects/programs.
2. Develop a comprehensive listing of potential water conservation projects/program options for each of the above-listed categories.
3. Perform a preliminary evaluation of the all projects/programs identified in 2) by quantifying the potential water savings and cost.
4. .Request the Steering Committee for input concerning whether or not the SC seeks additional evaluation of any of identified projects/programs options.
5. Perform a detailed evaluation of the projects/programs which addresses the 11 questions developed by the Solutions Planning Team. (See below.)
6. Document findings and identify options, including description of the water conservation project options and the evaluation process.

11 Questions Provided by the Solutions Planning Team

1. Identify projects/program options
2. Cost-benefit analysis
3. Cost estimates (capital and annual O&M)
4. Identify constraints
5. Identify potential partners and governance options
6. Pumping, storage and transmission configurations
7. Project feasibility
8. Funding sources
9. Project limitations or constraints resulting from rule inconsistency
10. Other considerations – public concerns or nontechnical obstacles
11. Estimated implementation schedule

Team Schedule

February-March 2014	Overview background information
March 2014	Consensus and approval of draft work plan
April 2014	Steering Committee meeting
March- June 2014	Public Water Supply Conservation
May 2014	Report Progress to Solutions team
May- June 2014	Agricultural Water Conservation
May-June 2014	Other Self-supply Water Conservation
June 2014	Steering Committee meeting
July 2014	Identify other water conservation ideas
August 2014	Discuss Education opportunities
August 2014	Report progress to Solutions team
September- November 2014	Prepare Draft Report
November 2014	Report Progress to Solutions Team
November- December 2014	Submit draft report to Solutions Team

CFWI Groundwater Sub-Team Draft Scope of Work

Steering Committee Guidance

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Team Leader: Ken Herd

The Groundwater Sub-Team (GST) is made up of representatives from the three water management districts and technical representatives of environmental groups, agriculture, business/industry and public water supply utilities.

Team Goal

Evaluate future groundwater supply project options that exist within the CFWI region and identify and evaluate management activities that are necessary to alleviate water resource constraints. Projects to be evaluated include projects identified in the RWSP and those identified during the evaluation process. The final work product of the GST will be consistent with the "CFWI 2035 Water Resource Protection and Water Supply Strategies" document.

Team Approach

The team will work within a collaborative environment with open and full information sharing as well as joint responsibilities and accountability for completing team assigned work products. The GST will coordinate with other sub-teams as necessary to develop the required work products.

Team Objectives

Work collaboratively with other Initiative teams to:

1. Evaluate the existing ECFT model and assess limitations and capability of the model
2. Identify groundwater supply project options from the RWSP and any other potential project options that are identified during this process.
3. Establish processes for running the model and identify groundwater withdrawal scenarios to be modeled
4. Assess modeled effects of the withdrawal scenarios (from objective 2) on the identified "measuring sticks"
5. Estimate potential additional available groundwater based upon the model results and assessed effects on the measuring sticks
6. Document findings and identify options for further implementation of project alternatives.

Team Scope of Work (SOW)

1. Identify multijurisdictional groundwater project options with a minimum capacity of 5 mgd

    a. RWSP
    b. Other options identified by participants
2. Conduct technical feasibility analyses to assess the project scope and yield
    a. Identify constraints
    b. Quantity hydrologic effects of proposed project
    c. Identify options for management activities to minimize impacts and maximize project yield
3. Planning level design of water supply project and corresponding management activities
    a. Pumping
    b. Storage
    c. Transmission configurations
    d. Land requirement
    e. Other
4. In coordination with Sub-Team leaders, develop estimates of project costs
    a. Capital costs
    b. Annual O & M
    c. Apply consistent methods and parameters for use by all sub-teams
5. Assess overall project feasibility
    a. Technical
    b. Likelihood of being permitable
    c. Financial
6. In coordination with Sub-Team leaders, develop options to evaluate benefits of potential projects
7. Cost-benefit analysis of yield
8. Identify potential partners and governance options
9. Identify funding sources
10. Identify project limitations or constraints resulting from rule inconsistency

11. Identify other considerations – public concerns or non-technical obstacles
12. Estimated implementation schedule
13. Document Findings

Following are detailed tasks to address the technical feasibility (SOW - Item #2) of groundwater projects:

1. Review ECFT Model
    a. Review updated model provided by HAT
    b. Assess availability of steady-state model (SJR/HAT) for use as a screening tool for evaluations (investigate use of influence coefficients)
2. Establish process for running the model to evaluate different withdrawal scenarios and the corresponding management activities that may be needed
    a. Establish baseline for simulating "existing" quantities (i.e., 800 mgd from RWSP vs 670 mgd from ECFT Model)
    b. Establish process to address existing impacts
        i. Work with Recovery/Prevention team to identify areas currently requiring management activities
        ii. Identify options for management activities
    c. Establish process to address impacts resulting from future projected withdrawals
        i. Identify options for management activities
3. Evaluate effects of planned/proposed brackish groundwater projects
    a. Work with HAT to identify limitations of model for use in evaluating LFA projects
    b. Quantify effects of simulating currently planned withdrawals from the LFA and assess affect on available fresh groundwater quantities
    c. Evaluate cumulative effects of projected LFA "blending" wells
4. Evaluate availability of fresh groundwater
    a. Additional groundwater withdrawals (additional 50 mgd)
        i. Work with the SPT and other sub-teams to develop options for allocating any additional withdrawals
        ii. Evaluate effects of additional withdrawals and options for management activities
    b. Additional groundwater withdrawals (additional 75 mgd above the 50 mgd)
        i. Work with the SPT and other sub-teams to develop options for groundwater withdrawal beyond the "additional" 50 mgd
        ii. Assess effects of additional quantities and options for management activities
5. Document findings

Team Schedule

Overview background information	January – February 2014
Develop project scenarios for modeling	February – April 2014
Report progress to Solutions Planning Team	March 2014

Modeling performed by HAT	March – June 2014
Report progress to Solutions Planning Team	June 2014
Adjust scenarios for final modeling	May – July 2014
Perform final modeling	August 2014
Report progress to Solutions Planning Team	September 2014
Prepare documentation for draft report	September 2014
Submit draft report to Solutions Planning Team	October 2014
Report progress to Solutions Planning Team	December 2014

Recovery and Prevention Sub-Team of the Solutions Planning Team

6/25/14

Steering Committee Guidance

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Team Leader: Dean Powell

Background:

The Recovery and Prevention Sub-Team is one of six sub-teams that supports the Solutions Planning Team (SPT) and is comprised of representatives from the three water management districts, Florida Department of Environmental Protection, an environmental group, and public water supply utilities. After evaluation by several technical teams associated with the CFWI, facts have been gathered that indicate numerous water resources (including MFL and non-MFL water bodies) throughout the region are in need of recovery or protection. This information was provided to the Steering Committee. Pursuant to the scope of work for the Solutions Planning Team, the potential effects on these water resources associated with withdrawals must be considered when evaluating water supply development projects associated with meeting future water supply demands. Methods that were developed during the Regional Water Supply Planning process will be used.

Goals:

- Work within the CFWI process to develop and assess water supply and water resource development project options for the protection or restoration of water resources. This includes projects identified in the Regional Water Supply Plan (RWSP) and other projects developed during the solutions phase.
- Provide technical support to the Solutions Planning Team on potential environmental effects of various project options.

Team Approach:

The Recovery and Prevention Sub-Team will interact with the other CFWI technical teams and Solutions Planning Team (SPT) sub-teams and work under the guidance of the SPT, Management

Oversight (MOC) and Steering Committee (SC). The Recovery and Prevention Sub-Team will evaluate alternative options for recovery and protection of MFL and non-MFL water bodies using methods that were developed during the RWSP process.

Team Objectives and Scope of Work:

Task 1: Review and assess areas of environmental sensitivity identified in the draft CFWI RWSP.

Task 2: Work with other sub-teams to spatially evaluate projects identified in Appendix F of the draft CFWI RWSP and other potential projects with areas of environmental sensitivity identified for the CFWI area.

Task 3: For MFL Water bodies, work with the Minimum Flow and Levels and Reservations Team (MFLRT) to evaluate projects identified in the draft CFWI RWSP (Appendix F) or other projects identified in the process to quantify the effects in the CFWI area.

- Using the existing measuring sticks established for MFL water bodies that were developed during the RWSP process.
- Work with other sub-teams to develop groundwater model runs for project evaluations.
- Coordinate with other sub-teams and provide project options to the SPT.

Tasks 4: For non-MFL water bodies, work with the Environmental Measures Team to evaluate projects identified in the draft CFWI RWSP (Appendix F) or other projects identified in the process to quantify the effects in the CFWI area.

- Using the statistical methods developed for non-MFL water bodies during the RWSP process.
- Work with other sub-teams to develop groundwater model runs for project evaluations.
- Coordinate with other sub-teams and provide project options to the SPT.

Task 5: Work with other sub-teams to initiate development of options for sustainable aquifer level target ranges and identify additional data requirements to assist in the implementation of the Solutions Phase.

Task 6: Support other sub-teams in addressing the “Basic Project Questions:”

- Identify regional water supply projects
- Complete cost-benefit analyses of project yields
- Develop project cost estimates
- Identify water resource constraints
- Identify potential project partners and governance options
- Evaluate project pumping, storage and transmission configurations
- Assess project feasibility and estimated property requirements
- Identify project funding sources
- Identify regional water supply project limits or constraints resulting from rule inconsistencies
- Address other considerations, including public concerns or non-technical obstacles
- Develop estimated project implementation schedules

Task 7: Provide technical support to the SPT in the development of the CFWI 2035 Water Resources Protection and Water Supply Strategies document. Describe existing projects and programs associated with recovery and protection of MFL and non-MFL water bodies within the CFWI area.

Technical Collaborative Team	Key Components	Start	Stop
Recovery-Prevention Sub-Team (X)	Review and assess areas of environmental sensitivity identified in the draft CFWI RWSP where existing and/or future stress caused by withdrawals occur or are projected to occur to MFL and non-MFL water bodies. (Task 1)	3/11/2014	6/30/2014
	Work with other sub-teams to spatially evaluate projects identified in Appendix F of the draft CFWI RWSP and other potential projects with areas of environmental sensitivity identified for the CFWI area. (Task 2)	3/11/2014	8/11/2014
	For MFL Water bodies, work with the Minimum Flow and Levels and Reservations Team (MFLRT) to evaluate projects identified in the draft CFWI RWSP (Appendix F) or other projects identified in the process to quantify the effects in the CFWI area. (Task 3)	7/14/2014	8/29/2014
	For non-MFL water bodies, work with the Environmental Measures Team to evaluate projects identified in the draft CFWI RWSP (Appendix F) or other projects identified in the process to quantify the effects in the CFWI area. (Task 4)	7/14/2014	8/29/2014
	Work with other sub-teams to initiate development of options for sustainable aquifer level target ranges and identify additional data requirements to assist in the implementation of the Solutions Phase. (Task 5)	3/26/2014	TBD
	Support other sub-teams in addressing the "Basic Project Questions" identified by the SPT. (Task 6)	6/302014	8/29/2014
	Provide technical support to the SPT in the development of the CFWI 2035 Water Resources Protection and Water Supply Strategies document. Describe existing projects and programs associated with recovery and protection of MFL and non-MFL water bodies within the CFWI area. (Task 7)	6/30/2014	4/30/2015

CFWI Reclaimed Water Sub-Team Draft Scope of Work

Steering Committee Guidance

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Team Leader: Jo Ann Jackson

The Reclaimed Water Sub-Team is made up of representatives from the three water management districts and technical representatives of business/industry and public water supply utilities.

Team Goal

Estimate future feasible reclaimed water supply project options that exist within the CFWI region to help meet alternative water supply needs.

Team Approach

The team will work within a collaborative environment with open and full information sharing as well as joint responsibilities and accountability for completing team assigned work products.

Team Objectives

Work collaboratively with other Initiative teams to:

1. Evaluate reuse projects identified within the draft Regional Water Supply Plan (RWSP)

2. Identify additional project options that should be considered that were not presented in the RWSP
3. Work with other sub teams to identify potential sources of reclaimed water to supply potential groundwater recharge projects.
4. Identify subset list of projects from 1) and 2) for further evaluation
5. Evaluate feasibility of the identified projects to present to the Steering Committee for further consideration

Team Scope of Work:

1. Identify reclaimed water project options
    a. RWSP – evaluate projects identified in the RWSP based on criteria provided by the Steering Committee:
        i. Capacity greater than 1 mgd
        ii. Multijurisdictional
    b. Other options
2. Conduct technical feasibility analyses to assess scope of project and potential quantities of potable water or groundwater offset.
    a. Identify constraints
    b. Identify projects that may apply to more than one sub-team (i.e., stormwater or surface water augmentation of reuse, groundwater recharge, etc.)
3. Complete planning level design of reclaimed water supply projects and identify options for management activities
    a. Pumping
    b. Storage
    c. Transmission configurations
    d. Other
4. Develop estimates of project cost
    a. Capital costs
    b. Annual O & M
5. Develop cost-benefit analysis
6. Assess overall project feasibility
    a. Technical
    b. Permittability
    c. Financial
7. Identify potential partners and governance options
8. Identify funding sources
9. Identify project limitations or constraints resulting from rule inconsistency
10. Identify other considerations – public concerns or non-technical obstacles
11. Estimated implementation schedule
12. Document Findings

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Following are detailed tasks to address identification of reclaimed water projects (SOW item #1):

1. Review reclaimed water projects identified in the RWSP
    a. Evaluate how reuse was included in the groundwater model and how existing and future reuse projects affect demand estimates (maintaining existing per capita, reducing future per capita, offsetting groundwater withdrawal, etc.)
        i. Evaluate reclaimed water projects using the criteria provided by the Steering Committee

2. Identify reclaimed water project options not included in the RWSP
        i. Unique projects not considered that have regional impact or that may advance reuse knowledge
        ii. New projects suggested by participants (local and regional)
        iii. Recharge projects as identified in collaboration with the groundwater and other Sub Teams
3. Assemble information about projects for feasibility assessment following approval by the Steering Committee.
4. Document findings

Team Schedule

Subteam kick-off meeting	January 2014
Background investigations	February – April 2014
Obtain screening criteria from Steering Committee	April 2014
Categorize existing projects in RWSP and identify new project options	February - June 2014
Report progress to Solutions Planning Team	March 2014
Evaluate projects and develop list for assessment	April – June 2014
Report progress to Solutions Planning Team	June 2014
Conduct feasibility assessment	July - September 2014
Report progress to Solutions Planning Team	September 2014
Prepare documentation for draft report	September – November 2014
Submit draft report to Solutions Planning Team	November 2014
Report progress to Solutions Planning Team	December 2014

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CFWI Stormwater and "Other" Sub-Team Draft Scope of Work

Steering Committee Guidance

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Team Leader: Rob Teegarden (Steve Miller)

The sub-team consists of representatives from all three CFWI Region water management districts and technical representatives of business/industry and public utilities.

Team Goal

Identify and evaluate stormwater and other related water supply options that exist, or are under consideration in the CFWI Region, that could be successfully designed and permitted to help alleviate projected water supply and resource constraints.

Team Approach

The sub-team will work within a collaborative environment with open and full information sharing, as well as joint responsibilities and accountability for completing assigned work products.

Team Objectives

Work Collaboratively to:

1. Evaluate stormwater projects within the draft CFWI Regional Water Supply Plan (RWSP) including cost-benefit analysis of yield, sources, water resources constraints, water quality and potential hazardous materials, seasonal supply characteristics, potential partnerships, pumping and transmission configurations, feasibility, and permittability, and funding options.

2. Identify and evaluate additional project opportunities that can be considered which were not presented in the RWSP.
3. Coordinate with the Regulatory Team to identify project limitations or constraints resulting from the inconsistency of rules of the three WM Districts within the CFWI region.
4. Coordinate with the RWSP Team and appropriate affected stakeholders to identify potential future steps toward achieving sustainable, long-term, water supply alternatives.
5. Collaborate with the CFWI Surface Water and Reclaimed Water Sub-Teams to identify shared project opportunities, including jointly utilized dispersed storage, and properly evaluate options for linking project opportunities to the appropriate Solutions Sub-Team.
6. Contribute sustainable solution options for the development of the CFWI 2035 Water Resources Protection and Water Supply Strategies.

Team Scope of Work and Timelines

1. Establish Sub-groups: **(Jan-Feb)**
   Discuss and identify the overall variety and types/ jurisdictional aspects of potential stormwater and related project opportunities. Based on sub-team members expertise and experience, assign individuals to collectively research and provide focused analysis and options for selected categories of opportunities. It is expected that three or more sub-groups will be established.
2. Gather project opportunity data and evaluate project options within sub-groups **(Feb-Mar)**
3. Overall Sub-Team discussions and identification of options/ projects to further evaluate, including: **(Mar-Apr)**
   a. Pros and cons to compare with identified stormwater and "other" projects
   b. Obstacles and challenge
   c. Linkages with other sources/ options and other sub-teams alternatives
   d. Timing
   e. Success factors and related limitations
4. Sub-groups work and focus on furthering evaluation of options **(May-Aug)**
   Possible actions include:
   a. Invite other potential partners to join in the discussions on projects
   b. Additional analysis undertaken (engineering, soils, WQ, financials, etc.)
   c. Engage permitting agencies and Regulatory Team to examine permitting likelihood
   d. Coordinate with surface water and reclaimed water sub-teams on linkages/ conjunctive use/ dispersed storage
5. Sub-team discussion and examination of feasibility, preliminary timing, and categorizing based on additional work completed **(Aug-Sept)**
6. Preparation of draft options **(Sept-Nov)**
7. Final CFWI Water Resources Protection and Water Supply Strategies to Solutions Planning Team **(Dec)**

CFWI Surface Water Sub-Team: Draft Scope of Work

Steering Committee Guidance

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Team Leader: Joanne Chamberlain

The Surface Water Sub-Team consists of representatives from the three water management districts and technical representatives of business/industry, environmental groups and public water supply utilities.

Team Goal
Advance evaluation, including feasibility, of surface-water project options identified in the CFWI RWSP as well as identifying additional potential surface water options to help meet the water supply needs of the region.

Team Approach
The team will work within a collaborative environment with open and full information sharing as well as shared responsibilities and accountability for completing team assigned work products.

Team Objectives
Work collaboratively to:

1. Evaluate surface water projects identified within the draft CFWI Regional Water Supply Plan (RWSP) including cost-benefit analysis of yield, cost estimates, sources, water resource constraints, potential partnerships, additional pumping and transmission configurations, feasibility and permittability, and funding options.
2. Identify additional regional, surface water project options for consideration that were not presented in the RWSP.

3. Coordinate with the Regulatory Team to identify if there are project limitations or constraints resulting from rule inconsistencies in the CFWI.
4. Coordinate with the other SPT Sub-Teams and appropriate stakeholders to identify potential conjunctive use project options to address future demands and natural system constraints.
5. Contribute to the development of the CFWI 2035 Water Resources Protection and Water Supply Strategies (CFWI Plan).

Team Scope of Work & Timeline):

1. Establish sub-groups **(Jan / DONE)**
   Sub-groups will evaluate each major surface water project option (>10 MGD) identified in the CFWI RWSP with respect to the 11 basic questions. An additional sub-group will review smaller project options (< 10MGD) .
   Sub-Groups (Team Lead and members)
   a. Upper Kissimmee – Mark Elsner, Lawrence Glenn, Larry Rosen, Larry Walker, Brian Wheeler
   b. SJR/TCR – Christine Doan, Teresa Remudo, Debbie Bradshaw, Pat Renish, Joanne Chamberlain
   c. SJR near SR 46 – Bill Marcous, Teresa Remudo, Pat Renish
   d. SJR near Yankee Lake – Terry McCue, Pat Renish, Joanne Chamberlain
   e. Joint TBW/Polk Co – Krystal Azzarella, Joe Carlson, John Upton
   f. Dispersed storage – Damon Meiers, Mark Elsner
   g. Smaller projects – Bill Eggers, Bill Fagan, Stephen Miller
2. Gather project data and review project options within sub-groups **(Feb-Mar DONE)**
3. Surface Water Sub-team to discuss options for further evaluation **(Apr – Jun)**
   Group discussion items to consider:
   a. Pros and cons- to compare with other surface water projects
   b. Obstacles/challenges
   c. Linkages with other sources/options
   d. Timing
   e. Success factors
4. Furthering project evaluation and coordination with all SPT sub-teams **(Jun - Aug)**
   Possible actions include:
   a. Invite other potential partners to join in the discussion on projects
   b. Additional analysis (engineering, financials, etc)
   c. Engage permitting agencies to gain informal feedback on permitting
   d. Coordinate with reclaimed and groundwater teams on linkages/conjunctive use
5. Surface Water Sub-team discussion of results of additional work **(Aug – Sept)**
6. Preparation of draft Surface Water chapter for SPT review **(Sept - Oct)**
7. Draft CFWI Plan to Steering Committee **(Dec)**
8. Public review and comments **(Jan – Feb 2015)**
9. Review comments and revise CFWI Plan as needed (**Mar 2015)**
10. Final CFWI Plan to Steering Committee **(Apr 2015)**