

The Water Cooperative of Central Florida Wednesday, August 5, 2020 2:00 PM - 3:00 PM Toho Administration Building 951 MLK Boulevard Kissimmee, FL 34741

Virtual Meeting Instructions

JOIN WEBEX MEETING https://tohowater.webex.com/tohowater/j.php?MTID=mc555ca061106d064865ed1cd2af44c78 Meeting number (access code): 132 528 5523 Meeting password: fKk7yApxJ32

TAP TO JOIN FROM A MOBILE DEVICE (ATTENDEES ONLY) +1-650-429-3300,,1325285523## +tel:%2B1-650-429-3300,,*01*1325285523%23%23*01* Call-in toll number +(US/Canada)

JOIN BY PHONE +1-650-429-3300 Call-in toll number (US/Canada)

Global call-in numbers https://tohowater.webex.com/tohowater/globalcallin.php?MTID=ma2fcc5b02f672878f96091365c2a466f

JOIN FROM A VIDEO SYSTEM OR APPLICATION

Dial sip:1325285523@tohowater.webex.com

You can also dial 173.243.2.68 and enter your meeting number.

Join using Microsoft Lync or Microsoft Skype for Business Dial sip:1325285523.tohowater@lync.webex.com

Can't join the meeting?

https://collaborationhelp.cisco.com/article/WBX000029055



The Water Cooperative of Central Florida Wednesday, August 5, 2020 2:00 PM - 3:00 PM Toho Administration Building 951 MLK Boulevard Kissimmee, FL 34741

Virtual Meeting Agenda

ITEMS FOR BOARD ACTION:

- (1) REQUEST BOARD APPROVAL OF BOARD MEETING MINUTES FROM MAY 6, 2020 (DIAZ)
- (2) REQUEST BOARD APPROVAL OF REIMBURSEMENT OF EXPENDITURES TO DATE BY TOHO WATER AUTHORITY ON BEHALF OF THE WATER COOPERATIVE OF CENTRAL FLORIDA (DIAZ)
- (3) REQUEST BOARD APPROVAL OF THE FOURTH AMENDMENT TO THE INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE FINAL DESIGN OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS UPDATE (BEATTY)
- (4) REQUEST BOARD APPROVAL OF THE DRAFT WATER COOPERATIVE BUDGET FOR FISCAL YEAR 2021(SWINGLE)

BOARD MEMBER ANNOUNCEMENTS

NEXT BOARD MEETING IS SCHEDULED FOR WEDNESDAY, OCTOBER 7, 2020

ADJOURNMENT

Meeting Date: August 5, 2020

Agenda Item No.

1

Attachments: Minutes from May 6, 2020

Title: APPROVAL OF THE WCCF MEETING MINUTES OF MAY 6, 2020

Explanation:

At every Board meeting, both taped and typed minutes are prepared of the proceedings. Attached are the typed minutes from the May 6, 2020 Board meeting.

Costs: None

Recommendation: Seeking Board approval of the WCCF meeting minutes of May 6, 2020.

Initials: ncd



Minutes from the Virtual May 6, 2020 meeting of the Water Cooperative of Central Florida 2:00 PM

Description: Regular meeting of the Water Cooperative of Central Florida (WCCF). Present at the meeting were Polk County Commissioner Rick Wilson, Orange County Commissioner Betsy VanderLey, Toho Water Authority Supervisor Hector Lizasuain, City of St. Cloud Commissioner Linette Matheny Toho Water Authority Executive Director Todd P. Swingle, Silvia Alderman, WCCF Counsel, TWA General Counsel, Anthony J. Cotter, and Executive Assistant, Nilsa C. Diaz.

Item	Item Name	Notes
Number		
1	APPROVAL OF BOARD MEETING MINUTES FROM DECEMBER 11, 2019	Hector Lizasuain made a motion to approve the minutes from the December 11, 2019 Board meeting and Commissioner Rick Wilson seconded the motion. Motion passed 4 to 0. General Counsel Alderman suggested that a roll call be taken because the meeting was virtual and it might be hard to recognize voices.
2	APPROVAL OF REIMBURSEMENT OF EXPENDITURES TO DATE BY TOHO WATER AUTHORITY ON BEHALF OF THE WATER COOPERATIVE OF CENTRAL FLORIDA	Rick Wilson made a motion to approve the reimbursement of expenditures and Commissioner Linette Matheny seconded the motion. Motion passed 4 to 0.
3	APPROVAL OF THE COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 2019	Brian Quinlin, CPA with the firm of CliftonLarsonAllen (CLA)stated that TWA's Comprehensive Annual Financial Report (CAFR) ended September 30, 2019, was a clean, unmodified report. The firm's primary responsibility is to express opinions. The Coop CAFR is restricted for water projects. Three other reports resulted in CLA not identifying any deficiencies in internal auditing. In a management letter prescribed under the Auditor General State of Florida, they are asked to look for items of non- compliance. They found one item within that report, "Security for Public Deposits State of FL Public Deposit March 11 2020 and got the report

		filed with the State. Looking at the investment of public funds, CLA rendered an opinion with that and all was in order. Mr. Quinlin thanked Alex Green and other staff members who worked with them on the report and made this happen. Chair VanderLey asked for a motion. Bick Wilson motioned for
		approval and Linette Matheny seconded the motion. Motion carried 4 to 0.
4	DELEGATED AUTHORITY TO EXECUTE DOCUMENTS ON BEHALF OF THE WATER COOPERATIVE OF CENTRAL FLORIDA	Todd Swingle explained that during the state of emergency with Covid-19 he was asking for authority for himself and General Counsel, Tony Cotter, to sign documents approved by the Board until further notice or rescinded by the Board. Rick Wilson moved for approval of the delegated authority and Hector Lizasuain seconded the motion. Motion carried 4 to 0.
5	SUMMARY OF THE DRAFT FOURTH AMENDMENT TO THE INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE FINAL DESIGN OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS	Executive Director Swingle gave a presentation of the schedule for the Cypress Lake wellfield to move forward with Amend #4 with an overview of where we are at with the project and why we are recommending we move forward. It will be sent to the different Boards and ultimately back to this Board. Construction will be starting in 2024 and we are looking out into 2027 for water. We anticipate the well can be converted to a production well regardless of the outcomes of the injection testings. Alternatives are being looked at if there are issues and we anticipate some of the challenges is the uncertain growth which based on current usage and growth patterns there are entities showing that they will need water sooner. We would like to accelerate the schedule by one year, this acceleration of the design to start mid this year has very minimal risks. Mr. Swingle said that we are closer to construction and obtaining land. Amendment No. 4 is for \$7 to \$8 Million. Chair VanderLey asked what the risk would be. Mr. Swingle responded that there was minimal risk because of the time value of money with starting the design early. As far as a time line in front of our Board, Mr. Swingle said that he was looking at least another month; June or July.
	EXECUTIVE DIRECTOR ANNOUNCEMENTS	Mr. Swingle said that he would like to mention a couple of things; there has been some movement with water supply planning – going through, the Kissimmee Water Reservation Rule is out for public comment. Potential water supply challenge is that it has environmental and downstream users/issues

		and a viable water supply is questionable. Other partners have existing permits for use of the surface water. Those permits will benefit the Cypress Lake project timing uncertainty. Another item which was discussed was the July 1 st
		bump it to August based on the timing of this meeting. Chair VanderLey said to leave it at July 1 st and keep an eye on it in case we need to move it.
	BOARD MEMBER	None
	ANNOUNCEMENTS	
	NEXT BOARD MEETING	WEDNESDAY, JULY 1, 2020
There being no	further business to come before the	he Board, Chair VanderLey adjourned the meeting at
2:53 PM.		
Betsy VanderL	ey, Chair	
Hector Lizasua	in, Secretary	
	-	

ncd

WATER CO-OPERATIVE OF CENTRAL FLORIDA

Meeting Date: August 5, 2020

Agenda Item No. 2

Attachments: Itemized list of expenditures by Toho Water Authority from April 3, 2020 – July 2, 2020

Title: APPROVAL OF REIMBURSEMENT OF EXPENDITURES TO DATE BY TOHO WATER AUTHORITY ON BEHALF OF THE WATER COOPERATIVE OF CENTRAL FLORIDA

Explanation:

The Board of Supervisors adopted a Resolution at the October 2, 2013 meeting authorizing the reimbursement of expenses incurred by Toho Water Authority (TWA) on behalf of the Water Coop on a quarterly basis. The Resolution allows the Authority to submit a detailed list of expenses incurred each quarter to the Board for approval for reimbursement. Under the Resolution, the TWA could be reimbursed quarterly during the year instead of once annually as was done for the previous fiscal year. The attached list of expenditures, made to date by TWA on behalf of the Water Cooperative, is being submitted for approval for reimbursement.

Amount to be reimbursed: \$34,281.28

Recommendation: Staff recommends approval of the list of expenditures submitted to date for reimbursement to the TWA. Initials: ncd

Attachment to Item 2

Toho Water Authority List of Expenditures on behalf of the Water Cooperative of Central Florida (APRIL 3, 2020 – JULY 2, 2020)

Vendor	Date	Invoice	Amount
Akerman LLP	04.03.2020	9552215	\$97.50
Akerman LLP	04.03.2020	9552212	2,372.50
Orlando Sentinel	04.29.2020	CU00102217	1,607.00
		6659447	
Osceola News	04.30.2020	30973	18.08
Gazette			
Akerman LLP	05.08.2020	9564755	650.00
Akerman LLP	05.08.2020	9564752	10,530.00
USPS	05.14.2020	POSTAGE	9.20
CliftonLarsonAllen	05.26.2020	2493984	750.00
LLP			
Orlando Sentinel	05.31.2020	CU00102217	1,607.00
		20799493000	
Akerman LLP	06.03.2020	9571014	325.00
Akerman LLP	06.03.2020	9571011	6,110.00
Akerman LLP	07.02.2020	9579794	32.50
Akerman LLP	07.02.2020	9579791	\$10,172.50
Water Cooperative			\$34,281.28
Subtotal			
			ncd

WATER CO-OPERATIVE OF CENTRAL FLORIDA

Meeting Date: August 5, 2020

Agenda Item No.

3

Attachments: Fourth Amendment to the Cypress Lake Interlocal Agreement

Title: APPROVAL OF THE FOURTH AMENDMENT TO THE INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE FINAL DESIGN OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS Explanation:

On May 6, 2020, staff provided a summary update to the Water Cooperative of Central Florida (WCCF) Board of Supervisors regarding the preparation of a Fourth Amendment to the Interlocal Agreement for the Cypress Lake Alternative Water Supply Project with a general overview of the content. The Fourth Amendment has now been finalized and staff is requesting WCCF Board approval. The work associated with the Fourth Amendment will include two main components: funding for consulting services for the final design, including permitting and bidding services; and funding to update the water wheeling hydraulic model.

The final design, permitting, and bidding consulting services will include work related to the water treatment plant and raw water mains, raw water supply wells, and the concentrate disposal wells. These services for the initial phase of the water treatment plant, raw water mains, raw water supply wells and concentrate disposal wells are required to design and permit a complete and functioning potable water treatment facility. At buildout, the initial phase of the project is anticipated to treat 50% of the permitted 37.5 million gallons per day (MGD) of brackish water withdrawal resulting in approximately 15 MGD of finished water.

Additionally, due to the exponential growth experienced in Central Florida since the completion of the 2014 water wheeling model, the participants of the Cooperative believe it is prudent to update the model to ensure the proposed water wheeling infrastructure needed for delivery of water amongst the Cooperative members and Reedy Creek is sufficient. Therefore, funding has been included in the Fourth Amendment to update the model. This also supports finalization of a Water Wheeling Agreement which is currently being reviewed by staff of the WCCF members and partners.

The Fourth Amendment will preserve the basic components of the previously approved Cypress Lake Interlocal Agreement (CL ILA) and the First, Second & Third Amendments. The previous amendments provided funding for the water wheeling study; preliminary design of the water treatment plant, raw water main, raw water supply wells, and concentrate disposal wells; and the permitting and design of the first of three concentrate disposal wells; all of which has been completed, and the construction of the first concentrate disposal well, which is

anticipated to be underway within the next few months. Therefore, the Fourth Amendment is essential to the continued advancement of the project.

In addition to the funding, the Fourth Amendment includes the following components:

- Defines quarterly invoicing and reconciliation methodology by Toho Water Authority (Toho or TWA).
- Includes special conditions for the possible withdrawal of Reedy Creek Improvement District (RCID) within two years from participation of the Cypress Lake Alternative Water Supply Project with the following provisions:
 - Toho and RCID will execute a mutually acceptable bulk rate wholesale agreement for Toho to deliver to RCID a volume of water equivalent to RCID's allocation
 - Toho will manage RCID's allocation of water of the contemplated bulk rate wholesale agreement
 - Toho will cover RCID's portion of the costs associated with the Fourth Amendment work.
 - If RCID elects to not withdraw nor enter into a bulk rate wholesale agreement, RCID shall reimburse Toho costs and expenses advanced on behalf of RCID with 3% interest.

Participant funding obligations and responsibilities for the work associated with the Fourth Amendment are based on each entity's proportional share of water as established in the Cypress Lake Interlocal Agreement and CL WUP as shown below:

PARTY	PERCENT	COST-SHARE AMOUNT
TWA	40%	\$3,144,000.00
Orange County	30%	\$2,358,000.00
Polk County	10%	\$ 786,000.00
St. Cloud	16.7%	\$1,310,000.00
RCID	<u>3.3%</u>	<u>\$ 262,000.00</u>
TOTAL	100%	\$7,860,000.00

The Fourth Amendment will not become effective until all participating parties and the Water Cooperative Board of Supervisors approve and execute the amendment. The WCCF member government Boards and RCID have approved, or will request approval on the following dates:

- Toho Water Authority July 8, 2020 *APPROVED*
- Reedy Creek Improvement District July 22, 2020 *APPROVED*
- City of St. Cloud July 23, 2020 *APPROVED*
- Orange Co. Utilities July 28, 2020 *APPROVED*
- Polk Co. Utilities August 4, 2020

Following approval of the Fourth Amendment by the Water Cooperative Board of Supervisors, the member government's governing Boards, and the RCID Board, Staff will begin consultant negotiations with Tetra Tech for the final design, permitting and bidding services. As required by the CL ILA, Toho will contract with and manage the Consultant, Tetra Tech.

Additional amendments will be required for property acquisition, finished water main design, and the construction phase of the initial phase project and are anticipated to include land acquisition for the water treatment plant and well sites, and associated easements for wellhead protection and pipelines; the design and construction of the finished water mains necessary to deliver potable water to the existing service area infrastructure; consultant construction administration services for the construction of the water treatment plant, wellfield, and raw water main; and construction funding.

Costs: Funding obligations: TWA \$3,144,000.00 Orange County \$2,358,000.00 Polk County \$ 786,000.00 St. Cloud \$1,310,000.00 RCID (Managed by TWA) \$ 262,000.00 Total expenditures for the work associated with the Fourth Amendment will not exceed \$7,860,000 without further authorization from the WCCF Board via future Amendments. **Recommendation:** Staff recommends approval of the Fourth Amendment to the Cypress Lake Interlocal Agreement and delegation of TWA's Executive Director and General Counsel to execute the agreement on behalf of the WCCF. Initials: dab

FOURTH AMENDMENT TO INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE PRELIMINARY DESIGN AND PERMITTING OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS

This Fourth Amendment to Interlocal Agreement Between the Water Cooperative of Central Florida and Reedy Creek Improvement District Relating to the Preliminary Design and Permitting of the Alternative Water Supply Project Known as the Cypress Lake Wellfield and Related Matters ("FOURTH AMENDMENT") is made and entered into by and between THE WATER COOPERATIVE OF CENTRAL FLORIDA ("THE COOPERATIVE"), a unit of local government, whose address is c/o its agent, Tohopekaliga Water Authority ("TWA"), 951 Martin Luther King Boulevard, Kissimmee, Florida 34741 and REEDY CREEK IMPROVEMENT DISTRICT ("RCID"), an independent special district created pursuant to Chapter 67-764, Laws of Florida, whose address is P.O. Box 10170, Lake Buena Vista, Florida 32830, referred to by name or as "PARTY" or collectively referred to as the "PARTIES."

WITNESSETH:

WHEREAS, the PARTIES entered into an agreement on August 30, 2011, captioned "Interlocal Agreement amongst The Water Cooperative of Central Florida, Orange County and Reedy Creek Improvement District Relating to the Preliminary Design and Permitting of the Alternative Water Supply Project Known as the Cypress Lake Wellfield and Related Matters" ("AGREEMENT"); and

WHEREAS, subsequent to entering into the AGREEMENT, ORANGE COUNTY became a member of THE COOPERATIVE, with all rights, privileges and responsibilities attendant therefrom; and

WHEREAS, the PARTIES entered into an amendment to the AGREEMENT ("FIRST AMENDMENT"), effective as of June 26, 2014, to: 1) transfer certain PROJECT Management and Administration tasks to TWA; 2) provide for reimbursement to TWA for performance of the PROJECT Management and Administration Responsibilities as further described in the FIRST AMENDMENT; and 3) change the name of the AGREEMENT to: the "Interlocal Agreement Between the Water Cooperative of Central Florida and Reedy Creek Improvement District Relating to the Preliminary Design and Permitting of the Alternative Water Supply Project Known as the Cypress Lake Wellfield and Related Matters;" and

WHEREAS, the PARTIES entered into a second amendment to the AGREEMENT ("SECOND AMENDMENT") effective as of September 23, 2015, to carry forward a new Phase III, including: 1) authorizing the new Phase III work; 2) redirecting certain previously approved but as yet uncommitted funds from Phase II to Phase III with no new funding obligations and an overall reduction in budget; 3) ratifying the transfer to TWA of certain PROJECT Management and Administration tasks and eliminating remuneration therefor, redirecting those management funds to other tasks as provided in the SECOND AMENDMENT; and 4) amending the Scope of Work and Total Estimated Cost to refine the descriptions to coincide more fully with services

already completed and those yet to be undertaken by amending Exhibits 1 and 3 and adding a new Exhibit 4; and

WHEREAS, the PARTIES entered into a third amendment to the AGREEMENT ("THIRD AMENDMENT") effective as of February 15, 2018, having determined that further steps in Phase III, Stages 1, 2 and 3 and a new Stage 4 should be carried forward under the AGREEMENT, including the following: 1) design and construction of the first of three concentrate disposal wells following the issuance of a permit for concentrate disposal and a Water Quality Criteria Exemption ("WQCE") by the Florida Department of Environmental Protection ("FDEP"), said initial well to be for the purpose of verifying permit conditions and to determine the need to make modifications; 2) establishment of a projected schedule for the design of the well in FY 2017 and construction in FY 2018, beginning October 1, 2017; 3) provision for the local government guarantee required as a condition of issuance of the permit; and 4) acquisition of a concentrate disposal well easement for one of the three proposed disposal wells covering the zone of discharge of the wells and of an option to purchase the water treatment plant site; and

WHEREAS, the PARTIES continue to recognize the benefits of regional cooperation and have determined that entering into this FOURTH AMENDMENT is in their mutual interest; and

WHEREAS, the PARTIES have determined that as a result of continued progress, it is appropriate to use the FOURTH AMENDMENT to change the name of the interlocal agreement from "INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE PRELIMINARY DESIGN AND PERMITTING OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS" to "THE CYPRESS LAKE ALTERNATIVE WATER SUPPLY AGREEMENT;" and

WHEREAS, in addition to changing the name of the AGREEMENT, the PARTIES wish, as a new Phase III, Stage 5, to set forth and authorize: 1) the parameters, schedule and budget for the Cypress Lake Wellfield Raw Water Main and Water Treatment Plant final design, permitting, and bidding; 2) the budget and services required to prepare and submit the initial tenyear report required by Limiting Condition 22 of SFWMD Permit No. 49-02052-W; 3) the update to the hydraulic model and infrastructure cost estimate found in the document entitled "Cypress Lake Potable Water Transmission, Optimization and Interconnection Analysis and Conceptual Design Water Wheeling Plan" ("Water Wheeling Plan"); 4) the provision for a permitting allowance; and 5) the clarification that, having received a construction permit from FDEP for three Class V Group 4 concentrate disposal wells, the PARTIES will proceed with the construction of the first of three wells (which was previously approved as part of Phase III, Stage 4) concurrently with the process of securing the WQCE from FDEP; and

WHEREAS, the PARTIES also wish to set forth certain options available to RCID that will afford it the opportunity to continue its participation in the AGREEMENT and receive all benefits as a full PARTY through entry of a bulk rate wholesale agreement with TWA, without having to contribute any additional funds over and above those presently obligated by RCID as of the effective date of this AGREEMENT, so long as it exercises the option to enter into the bulk rate wholesale agreement; and

WHEREAS, THE COOPERATIVE is empowered to enter into interlocal agreements and amendments under the authority of its charter and section 163.01, Florida Statutes (2018); and

WHEREAS, RCID is empowered to enter into interlocal agreements and amendments thereto pursuant to Chapter 67-764, Laws of Florida.

NOW THEREFORE, in consideration of the foregoing premises and the mutual covenants, terms and conditions contained herein, and for other good and valuable consideration, the receipt of which is hereby acknowledged, the PARTIES agree as follows:

SECTION 1. Recitals of the FOURTH AMENDMENT. The above recitals are true and correct and form a material part of the FOURTH AMENDMENT.

SECTION 2. Specific Amendments to the AGREEMENT. The AGREEMENT is further amended as follows:

a) The name "INTERLOCAL AGREEMENT BETWEEN THE WATER COOPERATIVE OF CENTRAL FLORIDA AND REEDY CREEK IMPROVEMENT DISTRICT RELATING TO THE PRELIMINARY DESIGN AND PERMITTING OF THE ALTERNATIVE WATER SUPPLY PROJECT KNOWN AS THE CYPRESS LAKE WELLFIELD AND RELATED MATTERS" is hereby changed to "THE CYPRESS LAKE ALTERNATIVE WATER SUPPLY AGREEMENT."

b) The Ninth WHEREAS clause of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

WHEREAS, the PARTIES have determined that the design and permitting for the Cypress Lake Wellfield and its concentrate disposal wells involves substantial work (hereinafter collectively referred to as the "Work"), including: 1) the preliminary design, water use permitting, environmental permitting, study relating to the transmission of water between the PARTIES and other work detailed in the SECOND AMENDMENT, as amended by the THIRD AMENDMENT, all of which are described in the Summary Scope of Work, as amended by the THIRD AMENDMENT, all of which are described in the Summary Scope of Work, as amended by the THIRD AMENDMENT in Exhibit 1 – Revised 2016, attached thereto and incorporated therein; 2) the Scope of Services set forth in Exhibit 5 to this FOURTH AMENDMENT; and 3) an update to the hydraulic model and infrastructure cost estimate found in the Water Wheeling Plan as described below in this FOURTH AMENDMENT; and

c) Section I. of the AGREEMENT, <u>**Recitals**</u>, is further amended by replacing the existing text *in toto* with the following:

The purpose and recitals of the AGREEMENT are true and correct to the best of the knowledge of the PARTIES, and are incorporated by reference herein. The PURPOSE statement of the AGREEMENT, is further amended by replacing the existing text *in toto* with the following:

THE overall PURPOSE of this AGREEMENT is to set forth the understandings of the PARTIES and the terms and conditions relating to: 1) the funding, planning, and design, comprehensive plan amendments, zoning and land use approvals, water use permitting and construction of the raw water supply wells, raw water main, water treatment plant and Class V Group 4 concentrate disposal wells (collectively, the "Cypress Lake Wellfield" or the "PROJECT," or portion thereof as the usage of the

word indicates); 2) the study of the transmission of water between the PARTIES, development of cost and rate model/formulas for water wheeling and any necessary updates thereto; 3) acquisition of property, permitting, development of data to support permitting of a water treatment reject concentrate disposal system, design and construction of the initial concentrate disposal well to verify the permit conditions and any need to modify the well design; 4) the final design for the PROJECT; and 5) the services required to prepare and submit the initial ten-year report required by Limiting Condition 22 of SFWMD Permit No. 49-02052-W. Additional agreements or amendments will be necessary to set forth the terms and conditions relating to: 1) the property acquisition, comprehensive plan amendments, zoning and land use approvals; 2) construction of and contract administration services for the raw water supply wells, raw water main, water treatment plant, the remaining Class V Group 4 concentrate disposal wells and other associated appurtenances set forth in Exhibit 5 to this FOURTH AMENDMENT; 3) operation and maintenance of the Cypress Lake Wellfield and Water Treatment Plant; and 4) additional permit compliance actions. Participation in this AGREEMENT will not bind any of the PARTIES to participation in any future agreement or amendment.

d) Subsection VI. A. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

A. The PARTIES agree that the activities authorized by this AGREEMENT shall be performed in accordance with the Work, including the Total Estimated Cost ("TEC") for Phases I, II and III, as hereinafter set forth. The negotiated scope of work ("NSW") shall be implemented consistent with and in a manner not to exceed the TEC. For the purposes of this AGREEMENT, the term "NSW" means the Work for Phases II and III, to be negotiated between the Project Administrator and the consultant(s) selected to perform the activities contemplated under this AGREEMENT.

e) Subsection VI. B. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

B. The Work shall consist of three phases: Phases I, II and III. Phase I has consisted of Work leading to the permitting of the Cypress Lake Wellfield, most of which has already been undertaken by TWA, individually (i.e., not as the agent of THE COOPERATIVE). Phase II has consisted of Part A – Preliminary Design, and Part B – Study of the Transmission of Water between the PARTIES. Phase III has consisted of, or where not yet complete, shall consist of five stages:

Stage 1 - Development of a financial model for allocating costs between the PARTIES for the PROJECT, including the charges for the transmission of water between the PARTIES;

Stage 2 – Appraisals, surveys, legal services, purchase options and other miscellaneous work related to acquisition of the water plant site, well sites and pipeline easements;

Stage 3 - Permitting and data development to support permitting of a water treatment reject concentrate disposal system, including the WQCE permitting;

Stage 4 - Design of one concentrate disposal well, construction/testing of one concentrate disposal well, and construction observation including FDEP reporting, with design work to commence in FY 2017 and construction to commence on or after August 1, 2020, with said construction to occur concurrently with the processing of the WQCE exemption;

Stage 5 – Implementation of the Cypress Lake Wellfield, Raw Water Main and Water Treatment Plant Final Design, Permitting, Bidding, and preparation and submittal of the initial ten-year report required by Limiting Condition 22 of SFWMD Permit No. 49-02052-W, both as described in Exhibit 5 of this FOURTH AMENDMENT; preparation of an update to the hydraulic model and infrastructure cost estimate found in the Water Wheeling Plan.

References to "Phase" herein shall mean Phase I, Phase II or Phase III, as the usage of the word indicates and references to "Part" shall mean Phase II, Part A or Phase II Part B, as the usage of the word indicates. References to "Stage" herein shall mean Phase III, Stage I; Phase III, Stage 2; Phase III, Stage 3; Phase III, Stage 4, or Phase III Stage 5, as the usage of the word indicates.

f) Subsection IX. B. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

The TEC for Phase II is two million five hundred ninety two thousand sixty dollars and forty cents (\$2,592,060.40), as more particularly described in Exhibit 3 – Revised, attached thereto and incorporated therein by the THIRD AMENDMENT.

The TEC for Phase III, Stages 1-4 is five million nine hundred seventy thousand dollars (\$5,970,000.00), as more particularly described in Exhibit 4 - Revised 2016. All consultant and legal fees and costs for land acquisition (excluding cost of real property), are included in the TEC for Phase II, Part A and Phase III and are identified in Exhibits 3 – Revised and 4 - Revised 2016.

Exhibit 3 of the AGREEMENT, which was amended by the SECOND AMENDMENT by replacing the then existing text *in toto* with the new Exhibit 3 – Revised, remains unchanged, as amended by the SECOND AMENDMENT. Exhibit 4, which was added by the SECOND AMENDMENT and replaced *in toto* by Exhibit 4 – Revised 2016 by the THIRD AMENDMENT, remains unchanged.

The TEC for Phase III, Stage 5 is seven million eight hundred sixty thousand dollars (\$7,860,000.00), constituting: 1) the consultant's fee for the final design, permitting and bidding for the raw water supply wells, raw water main, water treatment plant and Class V Group 4 concentrate disposal wells, and for preparation and submittal of the initial ten-year report required by Limiting Condition 22 of SFWMD Permit No. 49-02052-W, as more particularly described in Exhibit 5 to this FOURTH AMENDMENT, incorporated by reference herein of

six million seven hundred thirty-six thousand two hundred thirty-three dollars (\$6,736,233.00), together with a contingency to cover unforeseen circumstances and out of scope design changes of 10%, rounded to a total of seven million four hundred ten thousand (\$7,410,000.00); 2) a permitting allowance of one hundred thousand dollars (\$100,000.00); and 3) a budget of three hundred fifty thousand dollars (\$350,000.00) for preparation of an update to the hydraulic model and infrastructure cost estimate found in the Water Wheeling Plan. A summary of the budget for Phase III, Stage 5, is attached hereto and incorporated herein as Exhibit 6.

g) Subsection IX. F. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

For Phase II Part A, each PARTY, or member government in the case of THE COOPERATIVE, agrees to participate financially according to its estimated Cost-Share shown on the table set forth in this Subsection. The rights and obligations of THE COOPERATIVE are set forth below next to the names of its member governments who are participating in this AGREEMENT in the proportions set out below. The amount of funding for each PARTY, or member government in the case of the COOPERATIVE, represents the amount of public supply water (annual average) expected from the PROJECT based on the estimated available yield. The share of the estimated PROJECT cost of the PARTIES, or member government in the case of THE COOPERATIVE, for Phase II Part A will be as follows:

PHASE II PART A

PARTY	PERCENT	COST-SHARE AMOUNT
TWA	40%	\$758,233.20
Orange County	30%	\$568,674.90
Polk County	10%	\$189,558.30
St. Cloud	16.7%	\$316,562.36
RCID	3.3%	\$62,554.24
TOTAL	100%	\$1,895,583.00

For Phase III, Stages 1-4, each PARTY, or member government in the case of THE COOPERATIVE, agrees to participate financially according to its estimated Cost-Share shown on the table set forth below in this Subsection. The rights and obligations of THE COOPERATIVE are set forth below next to the names of its member governments who are participating in this AGREEMENT in the proportions set out below. The amount of funding for each PARTY, or member government in the case of the COOPERATIVE, represents the amount of public supply water (annual average) expected from the PROJECT based on the estimated available yield. The share of the estimated PROJECT cost of the PARTIES, or member government in the case of THE COOPERATIVE, for Phase III, Stages 1-4 will be as follows:

PHASE III, STAGES 1-4

PARTY	PERCENT	COST-SHARE AMOUNT
TWA	40%	\$2,388,000.00
Orange County	30%	\$1,791,000.00
Polk County	10%	\$597,000.00
St. Cloud	16.7%	\$995,000.00
RCID	3.3%	\$199,000.00
TOTAL	100%	\$5,970,000.00

For Phase III, Stage 5, each PARTY, or member government in the case of THE COOPERATIVE, agrees to participate financially according to its estimated Cost-Share shown on the table set forth below in this Subsection as further detailed in Exhibit 6. The rights and obligations of THE COOPERATIVE are set forth below next to the names of its member governments who are participating in this AGREEMENT in the proportions set out below. The amount of funding for each PARTY, or member government in the case of the COOPERATIVE, represents the amount of public supply water (annual average) expected from the PROJECT based on the estimated available yield. The share of the estimated PROJECT cost of the PARTIES, or member government in the case of THE COOPERATIVE, for Phase III, Stage 5 will be as follows:

PHASE III, STAGE 5

PARTY	PERCENT	COST-SHARE AMOUNT
TWA	40%	\$3,144,000.00
Orange County	30%	\$2,358,000.00
Polk County	10%	\$ 786,000.00
St. Cloud	16.7%	\$1,310,000.00
RCID	3.3%	\$ 262,000.00
TOTAL	100%	\$7,860,000.00

h) Subsection IX. H. (4) is further amended by replacing the existing text *in toto* with the following:

Phase II and Phase III Invoicing - Every calendar quarter the Project Administrator shall provide an invoice to each PARTY of its Cost-Share based upon the individual cumulative shares set forth in Subsections IX. F. and G. The invoice for each PARTY shall be based on each PARTY's Cost-Share of anticipated Costs for the upcoming quarter, adjusted by the PARTY's Cost-Share of the actual Cost to estimated Cost variance from the prior quarter, and include any outstanding balance, as illustrated by the following:

PARTY's Cost-Share of anticipated Costs for the upcoming quarter

(+) PARTY's Cost-Share of actual Costs incurred during the prior quarter

(-) PARTY's Cost-Share of estimated Costs for the prior quarter

(=) Quarterly invoice amount (PARTY's Cost-Share)

- (+) Any unpaid prior invoice amount by PARTY
- (=) PARTY's total outstanding balance due

Within 45 days of the date of the invoice to each PARTY of its Cost-Share, each PARTY shall pay to the Project Administrator the amount identified in the invoice as that PARTY's share. In the case of THE COOPERATIVE, the invoice shall be submitted to and payment remitted by each member government, as set forth in this Section IX. All such funds received by the Project Administrator will be held in escrow by the Project Administrator for the sole purpose of payment to the consultant(s) pursuant to the terms of the contract(s). Annually, THE COOPERATIVE, as part of its budget process, must establish an anticipated schedule of work of the Consultant(s) and budget allocating each Party's Cost-Share under this Agreement for the next fiscal year of THE COOPERATIVE.

i) Subsection IX. I. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

At any time, any PARTY (or member government in the case of THE COOPERATIVE) may, at its option and upon thirty (30) days' written notice to all other PARTIES, withdraw from further participation in the AGREEMENT. In such event, the remaining PARTIES (and THE COOPERATIVE on behalf of its member governments) shall: as authorized by Water Use Permit modification, reallocate the withdrawing PARTY's percentage of estimated available water; renegotiate the corresponding financial obligations among themselves; and amend this AGREEMENT accordingly. A withdrawing PARTY (and the member government in the case of THE COOPERATIVE) shall remain liable for payment of its share of all costs and expenses contracted pursuant to this AGREEMENT as of the date of the delivery of notice of withdrawal. Upon delivery of the notice, (i) the withdrawing PARTY shall have no further rights or obligations under this AGREEMENT except for its obligation to pay its share of those costs and expenses for which it expressly remains liable under this AGREEMENT; and (ii) the term "unanimous agreement" in the AGREEMENT shall not include the representative of the withdrawing PARTY, who shall have no further rights of participation with other Project Managers. Except upon amendment of this AGREEMENT, no PARTY (or member government in the case of THE COOPERATIVE) shall be liable for any costs and expenses in excess of its individual Cost-Share set forth in Subsection IX.

j) Section XI. of the AGREEMENT is further amended by replacing the existing text *in toto* with the following:

All notices provided for in this AGREEMENT, regardless of whether the word "written" precedes the word "notice," shall be in writing and shall be sufficient and deemed to be given when sent by certified mail or registered mail, return receipt requested, on the date received by the PARTY (and member government in the case of THE COOPERATIVE) upon which notice is given. All notices shall be delivered or sent to the PARTIES at their respective address shown below or to such other address(es) as a PARTY (and member government in the case of the

COOPERATIVE) may designate by prior written notice given in accordance with this provision to the other PARTIES:

As to ST. CLOUD:	City Manager City of St. Cloud 1300 Ninth Street St. Cloud, FL 34769 Phone: 407-957-7301
With copy to:	Director of Environmental Utilities City of St. Cloud 1300 Ninth Street St. Cloud, FL 34769 Phone 407-957-7104
With a copy to:	City Attorney City of St. Cloud 1300 Ninth Street St. Cloud, FL 34769 Phone: 407-957-7301
As to the TWA:	Executive Director Tohopekaliga Water Authority 951 Martin Luther King Boulevard Kissimmee, FL 34741 Phone: 407-944-5000
With copy to:	General Counsel Tohopekaliga Water Authority 951 Martin Luther King Boulevard Kissimmee, FL 34741 Phone: 407-944-5000
As to ORANGE COUNTY:	County Administrator Orange County Government P.O. Box 1393 Orlando, FL 32802 Phone: 407-836-7366
With copy to:	Utilities Director Orange County Utilities 9150 Curry Ford Road Orlando, FL 32825 Phone 407-254-9800
	County Attorney Orange County Attorney's Office P.O. Box 1393 Orlando, FL 32802 Phone: 407-836-7320

As to POLK COUNTY:	County Manager Polk County Government Drawer AT01/P.O. Box 9005 Bartow, FL 33831 Phone: 863-534-6664
With copy to:	Utilities Director Polk County Utilities 1011 Jim Keene Boulevard Winter Haven, FL 33880 Phone: 863-298-4240
	Polk County Attorney Polk County Attorney's Office Drawer AT01/P.O. Box 9005 Bartow, FL 33831 Phone: 863-534-6482
As to REEDY CREEK IMPROVEMENT DISTRICT:	District Administrator Reedy Creek Improvement District P.O. Box 10,170 Lake Buena Vista, FL 32830
With copy to:	Director Reedy Creek Energy Services P.O. Box 10,000 Lake Buena Vista, FL 32830
As to THE COOPERATIVE:	Executive Director Tohopekaliga Water Authority 951 Martin Luther King Boulevard Kissimmee, FL 34741 Phone: 407-944-5000

k) Section XIX. of the AGREEMENT is further amended with the creation of a new Subsection H. as follows:

H. This AGREEMENT may be simultaneously executed in several counterparts, each of which shall be an original and all of which shall constitute the same instrument.

I) Section XIX. of the AGREEMENT is further amended with the creation of new Subsections I. and J. as follows:

I. RCID Special Conditions. The following special conditions shall be applicable to RCID's participation in the AGREEMENT:

(1) At the time of execution of the FOURTH AMENDMENT, RCID anticipates that it will withdraw its participation in this AGREEMENT within two years of the effective date of the FOURTH AMENDMENT as follows: (a) TWA and RCID will execute a mutually acceptable bulk rate wholesale agreement for TWA to deliver

to RCID a volume of water equivalent to RCID's allocation of water per this AGREEMENT; and (b) TWA will manage RCID's allocation of water under this AGREEMENT to enable TWA to fulfill the obligations, at TWA's sole cost and expense, of the contemplated bulk rate wholesale agreement. From and after the effective date of the FOURTH AMENDMENT, TWA shall cover RCID's portion of the cost of Phase III, Stage 5 contracted after the effective date of the FOURTH AMENDMENT, but in all other respects, RCID shall continue to participate in the obligations and receive all rights and benefits as a PARTY in the AGREEMENT until it withdraws from this AGREEMENT. Notwithstanding anything to the contrary contained herein, to the extent so provided in the bulk rate wholesale agreement between TWA and RCID, RCID's allocation of alternative water rights/water credits under this AGREEMENT will remain with RCID by virtue of executing the bulk rate wholesale agreement with TWA. After RCID executes the bulk rate wholesale agreement and withdraws, the PARTIES shall not amend this AGREEMENT to provide otherwise or to decrease RCID's allocation of water per this AGREEMENT or allocation of alternative water rights/water credits under this AGREEMENT so long as the bulk rate wholesale agreement between TWA and RCID remains in effect.

(2) If RCID elects to not withdraw nor enter into a bulk rate wholesale agreement with TWA within the time specified in Subsection XIX. I. (1), RCID must notify TWA and shall participate fully as a PARTY in this AGREEMENT (subject to its right to withdraw under Subsection IX. I. of this AGREEMENT as modified by Subsection XIX. J. of this AGREEMENT). No later than forty-five (45) days after the second anniversary of the effective date of the FOURTH AMENDMENT, RCID must reimburse TWA for any portion of the costs and expenses advanced by TWA on behalf of RCID, up to the date of the notice, with 3% interest, and assume responsibility for RCID's prorated share of any remaining contractual obligations associated with the FOURTH AMENDMENT. Nothing herein shall preclude RCID from notifying TWA that it elects to not enter into a bulk rate wholesale agreement any time before the completion of the two-year period, and RCID shall only be required to reimburse TWA for costs and expenses advanced with 3% interest through the date of notification. Nothing herein releases RCID from any obligation that existed before the effective date of this FOURTH AMENDMENT.

(3) If, within the time specified in Subsection XIX. I. (1), RCID does not elect to proceed as provided in Subsections XIX. I. (1) or (2), then it shall withdraw its participation in this AGREEMENT in accordance with the terms of Subsection IX. I., except as modified by Subsection XIX. J.

J. In the event the termination provisions of Subsection IX. I. are triggered by the withdrawal of RCID, RCID shall have no obligation to reimburse TWA for the costs and expenses contracted under this AGREEMENT between the effective date of the FOURTH AMENDMENT and the date it gives notice of withdrawal. Nothing herein releases RCID from any obligation that existed before the effective date of this FOURTH AMENDMENT. The remaining PARTIES shall agree on the division of the allocation that would have been allotted to RCID as provided in Subsection IX. I. and also reimburse TWA for any costs and expenses advanced on behalf of RCID pursuant to Subsection XIX. I. with 3% interest, in proportionate share to the allocation allotted to them by the division of RCID's allotted share. Except as modified by this Subsection XIX. J., all other provisions of Subsection

IX. I. remain unchanged and shall apply to any future withdrawal from the AGREEMENT by any PARTY.

SECTION 3. General Amendments and Ratifications to the AGREEMENT. Wherever the term "AGREEMENT" appears in the AGREEMENT, the FIRST AMENDMENT, the SECOND AMENDMENT, the THIRD AMENDMENT, or the FOURTH AMENDMENT said reference is amended and understood to mean the AGREEMENT as amended by the FIRST AMENDMENT the SECOND AMENDMENT, the THIRD AMENDMENT and the FOURTH AMENDMENT. Wherever the term "PROJECT" appears in the AGREEMENT or in the FIRST AMENDMENT, SECOND AMENDMENT, THIRD AMENDMENT or FOURTH AMENDMENT, said reference is amended and understood to mean the totality of the PROJECT, or a portion thereof as the usage of the word indicates. All other provisions of the AGREEMENT, as amended by the FIRST AMENDMENT, SECOND AMENDMENT, THIRD AMENDMENT, and FOURTH AMENDMENT are hereby ratified and remain in full effect.

SECTION 4. **Filing**. Pursuant to section 163.01(11), Florida Statutes (2016), the FOURTH AMENDMENT shall be filed with the clerks of the circuit court of Orange, Osceola and Polk counties.

SECTION 5. Effective Date. This FOURTH AMENDMENT shall become effective on the last date that: 1) the PARTIES hereto and the member governments of THE COOPERATIVE have executed same; and 2) this FOURTH AMENDMENT is recorded in the public records of Orange, Osceola and Polk counties.

[Signature pages to follow.]

IN WITNESS WHEREOF, the undersigned has caused this FOURTH AMENDMENT to be duly executed.

THE WATER COOPERATIVE OF CENTRAL FLORIDA By: its Board of Supervisors

Betsy VanderLey, Chair

Rick Wilson, Vice Chair

Hector Lizasuain, Secretary

Linette Matheny

Date: _____

IN WITNESS WHEREOF, the undersigned has caused this FOURTH AMENDMENT to be duly executed.

REEDY CREEK IMPROVEMENT DISTRICT

By: ____

John Classe, District Administrator

Attest:

Clerk, Board of Supervisors

Date: _____

IN WITNESS WHEREOF, the undersigned has executed this FOURTH AMENDMENT below in its capacity as a member government of THE WATER COOPERATIVE OF CENTRAL FLORIDA and, in its individual capacity, to ratify and accept on to itself the obligations of the CITY OF ST. CLOUD and the respective obligations of the individual member governments as they apply to the CITY OF ST. CLOUD, in accordance with the terms of the AGREEMENT as amended.

CITY OF ST. CLOUD, FLORIDA

By:___

Nathan Blackwell, Mayor

Attest:

Linda Jaworski, City Clerk

Date: _____

Approved by: _____City Attorney

IN WITNESS WHEREOF, the undersigned has executed this FOURTH AMENDMENT below in its capacity as a member government of THE WATER COOPERATIVE OF CENTRAL FLORIDA and, in its individual capacity, to ratify and accept on to itself the obligations of the TOHOPEKALIGA WATER AUTHORITY and the respective obligations of the individual member governments as they apply to the TOHOPEKALIGA WATER AUTHORITY, in accordance with the terms of the AGREEMENT, as amended.

TOF	HOPEKALIGA WATER AUTHORITY
By:	Board of Supervisors

By:

Clarence Thacker, Chair

Attest:

William "Bill" Land, Secretary

Date: _____

Approved by: _____

Attorney

IN WITNESS WHEREOF, the undersigned has executed this FOURTH AMENDMENT below in its capacity as a member government of WATER THE COOPERATIVE OF CENTRAL FLORIDA and, in its individual capacity, to ratify and accept on to itself the obligations of POLK COUNTY and the respective obligations of the individual member governments as they apply to POLK COUNTY, in accordance with the terms of the AGREEMENT, as amended.

POLK COUNTY, FLORIDA By: Board of County Commissioners

By:

Bill Braswell, Chair

Attest: _

Stacy M. Butterfield, Clerk

Date: _____

Approved by: _____

County Attorney

IN WITNESS WHEREOF, the undersigned has executed this FOURTH AMENDMENT below in its capacity as a member government of THE WATER COOPERATIVE OF CENTRAL FLORIDA, and, in its individual capacity, to ratify and accept on to itself the obligations of ORANGE COUNTY and the respective obligations of the individual member governments as they apply to ORANGE COUNTY, in accordance with the terms of the AGREEMENT, as amended.

ORANGE COUNTY, FLORIDA By: Board of County Commissioners

By:

Jerry L. Demings, Orange County Mayor

Attest: Phil Diamond, C.P.A., County Comptroller As Clerk to the Board of County Commissioners

By:

Deputy Clerk

Date: _____

Exhibit 5

Cypress Lake Wellfield, Raw Water Main and Water Treatment Plant Final Design, Permitting, and Bidding and 10-Year Report for WUP 49-02052-W



May 5, 2020

Ms. Deborah Beatty, P.E. Toho Water Authority 951 Martin Luther King Blvd. Kissimmee, FL 34741

Subject: Cypress Lake Wellfield, Raw Water Main & Water Treatment Plant Final Design, Permitting, and Bidding Services

Tt # 200BP Toho

Dear Ms. Beatty:

Tetra Tech is pleased to furnish this proposal for professional engineering services to assist the Water Cooperative of Central Florida with the above-referenced project. A detailed scope of services and compensation summary are attached hereto.

We look forward to providing these services to the Water Cooperative of Central Florida. If you should have any questions, please do not hesitate to contact me at 407-839-3955.

Very truly yours,

Tetra Tech

Jon D. Fox, P.E. Vice President

Attachments

JDF/ab/Cypress Lake 10-2018/20200427_markups/Beatty_050520.doc

C: Kevin M. Friedman, P.E., Tetra Tech

EXHIBIT A

SCOPE OF SERVICES

CYPRESS LAKE WELLFIELD, RAW WATER MAIN & WATER TREATMENT PLANT (FINAL DESIGN, PERMITTING, AND BIDDING SERVICES)

I. PROJECT DESCRIPTION

The Water Cooperative of Central Florida (Cooperative) members, currently consisting of the City of St. Cloud, Toho Water Authority (TWA), Orange County Utilities (OCU), and Polk County Utilities (PCU) together with the Reedy Creek Improvement District (RCID) [Utility Partners], has determined that the construction of a regional alternative water supply project would be of benefit to their individual water supply needs and address the specific conditions within their own current water use permits. In 2011, an interlocal agreement was executed to form a cooperative entity of Central Florida utility providers to address the funding, planning, preliminary design, design and construction, comprehensive plan amendments, zoning and land use approvals, and water use permitting for water supply projects to benefit the customers and stakeholders of the Cooperative. The Cooperative recognizes the benefits of regional cooperation and has determined that such partnership is in the best interest of the public.

Strategic planning efforts determined that a regional project yielding a minimum 30 million gallons per day (MGD) of water supply would help to collectively meet the Utility Partners needs for the near future. Two test/production wells were constructed within the Cypress Lake Wellfield and pump tested to provide the Utility Partners with water quality data within the Lower Floridan aquifer (LFA) which was used to estimate raw water quality and ultimately to provide a basis of design for the new water treatment plant (WTP). The Utility Partners completed the necessary testing to confirm that the LFA in the vicinity of Cypress Lake in central Osceola County has the ability to meet their future water supply needs, as well as address specific conditions within their water use permits. Following the completion of this testing, the Utility Partners submitted and have subsequently been issued a 30-year 37.5 MGD water use permit by the South Florida Water Management District (SFWMD) to withdraw groundwater from the LFA as an alternative water supply source. A total of 12 well sites have been identified and permitted.

As one of the next steps in the overall program, the Utility Partners have implemented the Cypress Lake Wellfield, Raw Water Main, and Water Treatment Plant Project. The initial phase of this project consisted of developing and recommending a concept plan for the new raw water supply wellfield, raw water transmission main, and water treatment facility for the withdrawal of 37.5 MGD of groundwater from the LFA and the subsequent treatment to public drinking water standards. The Concept Development Plan (Tetra Tech, MWH, Liquid Solutions Group, April 2014) recommended reverse osmosis (RO) as the treatment process for the LFA brackish groundwater supply and well injection as the most cost effective and permittable RO concentrate management option. The Concept Development Plan considered electrodialysis reversal (EDR) as an alternative concentrate management option; however, follow up water quality modelling indicated that EDR could not effectively meet finished water total dissolved solids (TDS) requirements and that the concentrations of silica appeared low enough for RO to remain an effective concentrate management option. Subsequently, a Preliminary Design Report (PDR) was prepared in 2014 to present a basis of design, preliminary layout of proposed facilities (buildings, site and yard piping), facility implementation, overview of regulatory requirements, and estimate of probable capital and O&M costs for the Cypress Lake wellfield, raw water main, and WTP.



At the time the PDR was finalized, the exact locations of various components were still in flux. Since 2014 refinement efforts have resulted it additional clarity for most aspects of the overall program. **Figure 1** presents a map showing the most current proposed location of the wells, raw water mains, and WTP.

Several facilities will need to be constructed to extract the raw water from the Floridan Aquifer, convey it to the WTP, treat the raw water to meet regulatory standards and the finished water quality goals, store and pump the finished water into the transmission system and dispose of the water treatment process residuals. The overall components of these facilities are depicted in the schematic below.



The supply facilities will include 12 Floridan aquifer wells which will be cased to a depth of 1,350 feet below land surface (bls) and have open-hole sections to 1,550 feet bls. The wells will each be designed to produce 3.75 MGD so that ten wells can withdraw the permitted rate and two (2) wells will serve as standby for reliability and wellfield rotation. The wells will be equipped with vertical turbine pumps and generators and connect into a transmission main at the south end of the wellfield along Canoe Creek Road which will branch into dual parallel transmission mains at the northern end of the wellfield. Dual raw water transmission mains will enter the WTP site which provides for reliability against a single point of failure and provides for an initial phase of construction at lower capital cost.

The treatment, storage and high service pumping (HSP) facilities will be constructed on a greenfield site encompassing approximately 25 acres. The pretreatment and RO processes will be housed in a single, central treatment building. The raw water must receive pretreatment prior to the RO process. The pretreatment processes will include chemical pretreatment in the form of the addition of sulfuric acid and a commercial scale inhibitor and physical pretreatment in the form of 5-micron cartridge filters. The RO process will remove chlorides and TDS from the raw water so that their concentrations are below the regulatory limits. The RO process will consist of the RO feed pumps which boost the pressure to drive the RO process and the individual RO treatment skids. Ten (10) RO feed pumps and RO skids are proposed for these facilities. The RO process is designed to produce 30 MGD of permeate or product water and four (4) MGD of raw water will be filtered with 5-micron cartridges and blended with the permeate to provide the total design capacity of 34 MGD.

The RO permeate blended with raw water will require additional treatment following the RO process to achieve the finished water quality goals and meet the regulatory requirements. These are the post treatment processes. Hydrogen sulfide gas passes thru the RO membranes and must be removed prior to disinfection. The pH must be lowered to insure most of the hydrogen sulfide is in the gaseous form; therefore, sulfuric acid and hydrofluosilicic acids will be fed to the blended water prior to the hydrogen







sulfide removal process. Counter current forced air degasifiers will be used to remove the hydrogen sulfide gas from the blended permeate. Following removal of the hydrogen sulfide gas, the blended permeate must be chlorinated to achieve four (4) log virus inactivation. Sodium hypochlorite and carbon dioxide will be added to the blended permeate as it enters one of three chlorine contact basins. Following disinfection, the water will receive final chemical addition in the form of calcium hydroxide, sodium hydroxide and a phosphate-based corrosion inhibitor in a blending channel ahead of the transfer pump wetwells. The final chemical addition will raise the calcium concentration to the finished water goal, increase the LSI to a positive value and prevent lead corrosion. The water following final chemical treatment will be pumped from the transfer pump wetwells to the on-site ground storage reservoirs by two sets of transfer pumps. The finished water will be stored in two 5-million gallon (MG) prestressed concrete ground storage reservoirs on-site. High service pumps, electrical equipment and generators will be housed in a building adjacent to the ground storage reservoirs. A set of six (6) high service pumps will be designed to pump the total design flow of 34 MGD. A 48-inch finished water transmission main will be used to convey the finished water offsite.

The RO process will be designed for 90% recovery of the raw water as permeate which will leave approximately 3.5 MGD of the concentrated raw water that will require disposal. Injection wells will be used to dispose of the concentrate. Preliminarily it is projected that at least three approximately 2-MGD capacity Class V injection wells will be required for disposal which includes a minimum of two in operation and one well as backup. These wells will be constructed to approximately 2,400 feet deep to access an injection formation. A set of booster pumps will be used to provide the necessary pressure for injection. A 2.0- MG gallon tank will be provided as part of the concentrate disposal system to receive flows required to flush to skids at startup or shutdown and bypass raw water around the RO process for flushing that may be in excess of the injection well capacity.

Figure 2 presents a preliminary site plan showing the WTP facilities. The layout presented may be adjusted depending upon the final parcel acquired by the Cooperative and as a result of design refinements that are typical in these types of projects.

The above description reflects the overall planned build-out concept that has been accepted by the Cooperative. Due to economic consideration and in an effort to match water supply and demand, a phased construction approach is proposed for the first phase of the program. Under this approach, six (6) raw water supply wells will be provided along with an RO treatment capacity of 15 MGD and 2 MGD of raw water blend for a total finished water production capacity of 17 MGD. Construction of approximately 20,000 linear feet of 16-, 20-, 24- and 30-inch raw water transmission main. Concentrate disposal will be provided by two (2) Class V deep injection wells. The initial piping, buildings, treatment structures, and electric service will be designed to cost-effectively accommodate the build-out expansion to 34 MGD as illustrated in **Figure 2** and described above. The finished water transmission main will be terminated at the water treatment plant property boundary.

The services provided herein will address all on-site facilities described above. The project will be delivered under three construction contracts as listed below. Tasks to be completed for this project will be completed on a phased basis for each contract and they are further described herein.

- Contract I: Raw Water Supply Wells (Well Nos. CL-1 to CL-6)
- Contract II: Raw Water Main (20,000 LF) and Water Treatment Plant (17 MGD)
- Contract III: Class V Deep Injection Well (IW- 2)





II. SCOPE OF SERVICES

Project Management

A. Project Administration

Provide project administration services to direct, coordinate, and oversee work performed. This is an internal management activity which includes day-to-day management of the specific project work efforts, management oversight of technical tasks, coordination with other consulting teams related to the Cypress Lake project, monthly project status reports, monthly project schedule and budget updates, and quality management for this scope of services. The duration of this project is anticipated to be 24 months. Project administration will include the following:

- 1. <u>Project Management Plan:</u> Tetra Tech will prepare and maintain a Project Management Plan (PMP) to be used by the project team for managing and administering the design, permitting, bidding and construction administration phases of the project. Procedures and protocols will be established for the following project elements:
 - Project Definition
 - Team Member Roles and Responsibilities
 - Schedule with Milestones, Deliverables, Reviews and Meetings
 - Communication Protocol
 - Document Management
 - Change Management
 - Status Reporting
 - Quality Management Plan
 - Accounting (Invoicing)
 - Health and Safety Plan

The details of the PMP will be discussed at the project kick-off meeting. The PMP will be a working document, which will be changed, modified and updated as needed during execution of the project. A draft copy of the PMP will be submitted for review. Following review, comments received will be incorporated and the final PMP will be submitted.

- <u>Project Schedule:</u> Tetra Tech will develop a project schedule to identify key project milestones for project tasks. The project schedule will include a work breakdown structure that provides an organized approach to project delivery, defined milestones, progress/workshop meetings, deliverables, and deliverable reviews. The schedule will be prepared using MS Project and updated monthly.
- 3. <u>Project Risk Register:</u> Meet with the Cooperative to develop an initial project risk register and subsequently update the register on a quarterly basis. The register will identify risks that could potentially affect the project and present the estimated probabilities of occurrence, potential adverse impacts (financial, schedule, quality, flexibility, and other), contingency measures, and response plans. Once a CMAR firm is retained they will participate in expanding and updating the register.



- 4. <u>Project Status Reporting</u>: Tetra Tech will prepare a project status report on a monthly basis. Each monthly report will include a summary of the ongoing project activities as well as status updates for the schedules and budgets. Specific topics to be addressed in each monthly report consist of the following: description of work-to-date, description of 30-day look-ahead, updated project schedule, pending action items, and budget summary.
- 5. <u>Quality Management:</u> Tetra Tech will implement an ongoing quality assurance and quality control (QA/QC) program as an integral part of the delivery of the project. Quality review will be conducted throughout the project on key technical issues and on major deliverables prior to submission to the Utility Partners. Quality reviews are an internal QA/QC procedure that will be done by senior level technical peers who were not involved in development of the documents. The senior level technical peers will review draft documents for proper application of the approved assumptions, calculation methods, design methods and technologies.

Contract I: Raw Water Supply Wells

A. Final Design Services

- 1. Attend a kick-off meeting with representatives of the Cooperative to discuss well locations, site requirements, security needs, and equipment preferences.
- 2. Perform preliminary screening of the proposed well sites for siting of the new Lower Floridan Aquifer (LFA) raw water supply wells. This will include a field visit to physically observe the proposed well sites to determine if there are any visible sanitary hazards and regulatory setback constraints. The areas to be screened will include five (5) (Well CL-1 Existing) parcels of land for siting the raw water wells. Review published reports and database information from the United States Geological Survey (USGS), South Florida Water Management District (SFWMD), Florida Geological Survey (FGS), US Federal Emergency Management Agency (FEMA), the Florida Department of Environmental Protection (FDEP), the US Environmental Protection Agency (EPA), and the Natural Resources Conservation Service (NRCS) to identify potential well construction and reliability issues. Issues of concern may include surface expressions of subsurface dissolution or subsurface collapse near the proposed well sites, location of wetlands, locations of environmental or contamination hazards, flood zones, and unsuitable soil types.
- 3. Upon completion of the raw water supply well site screening, Tetra Tech will compile the data obtained and prepare a memorandum summarizing the findings and recommendations for siting of the raw water supply wells.
- 4. Provide professional surveying and utility locating services in support of design of the raw water supply wells. Surveying services will be secured from Johnston's Surveying, Inc. and will consist of boundary and topographic surveys of the well sites as well as locations of wetland boundaries and underground utilities. Survey work will be in accordance with "Minimum Technical Standards" established by the Florida Administrative Code.
- 5. Prepare a project manual that contains bidding and contract requirements, technical specifications and engineering drawings for competitive bidding. The project manual and its



contents will be formatted in accordance with the Construction Specification Institute (CSI) and prepared using Microsoft WORD[®]. The drawings will be prepared using the latest version of AutoCAD. The project manual will include the following:

- a. Bidding and contract requirements will be prepared using TWA standard front-end documents. Tetra Tech will prepare the project bid form, summary of work and measurement and payment sections. Any changes to the TWA standard documents will be reviewed and approved by TWA.
- b. Technical specifications and engineering drawings for construction and testing of five (5) Lower Floridan Aquifer (LFA) raw water supply wells will include, at a minimum, drill-stem water quality sampling and analysis, geophysical and video logging, aquifer performance testing, and other miscellaneous items required to determine the water quality and capacity of the wells. Design will include modification of existing Well CL-1 to include extending the final casing by slipping lining to a total depth of 1,350 ft, bls.
- 6. Provide ten (10) sets of project manual and attend design review meetings with representatives from the Cooperative at the Draft and Final completion levels. Comments, responses, and revisions will be logged following each review meeting.
- 7. Provide ten (10) sets of drawings and specifications at the Final completion level along with electronic files.
- 8. Prepare an opinion of construction cost based on previous bid tabulations, vendor quotes and estimates provided by contractors. Opinion of construction costs will be submitted with the Draft and Final progress submittals.
- 9. Conduct discipline coordination and QA/QC reviews in accordance with Tetra Tech's documented procedures.
- 10. Prepare a well drilling contractor pre-bid qualification package for this work to prequalify well drilling contractors prior to bidding. Each prequalified bidder will be qualified to drill and test deep Lower Floridan aquifer large diameter water supply wells. Tetra Tech will review and evaluate pre-qualification submittals from potential well drillers and provide recommendation.

B. Permitting Services

Tetra Tech will assist the Contractor with the following permit applications and supporting documentation for submission to the South Florida Water Management District (SFWMD) and/or the Osceola County Department of Health (DOH) and the Florida Department of Environmental Protection (FDEP) to obtain permits for construction. Tetra Tech will assist the Contractor in responding to requests for additional information (RAIs) from permitting agencies to clarify the original applications. Also, Tetra Tech will prepare the 10-year compliance report required under WUP Limiting Condition No. 22. All permit application fees will be paid by the Cooperative.



- 1. SFWMD/DoH Well Construction Permit. A Well Construction Permit must be obtained for well construction by the licensed well driller. Tetra Tech will assist by providing the well driller information needed to complete the application.
- 2. FDEP Generic Discharge Permit (GDP). A Generic Permit for discharge of groundwater may be required during construction and testing of the raw water supply wells. Tetra Tech will assist the Contractor by preparing a letter request and supporting documentation for the GDP from the FDEP (if needed).
- 3. 10-year Compliance Report per WUP Limiting Condition No. 22:
 - a. Document projected demands versus allocation.
 - b. Prepare draft 10-year WUP compliance report.
 - c. Finalize draft 10-year WUP compliance report pursuant to review comments.

C. Bidding Services

It is anticipated that the Cooperative will handle administrative tasks related to competitive bidding of the proposed facilities. Tetra Tech will address the following tasks.

- Furnish the Cooperative with a "master set" of construction documents in electronic format, as well as 24" x 36" full scale drawings and a "master set" of technical specifications for use in reproducing individual bidding packages. The Cooperative will be provided three (3) copies of the "master set" of construction documents with copier reproducible 11" x 17" scaled half size drawings. Electronic formats for the drawings will be the current version of AutoCAD and Acrobat PDF. For the specifications, the formats will be Microsoft WORD[®] and Acrobat PDF.
- 2. Attend a prebid conference to discuss the general scope of the project and document questions from prospective bidders.
- 3. Prepare addenda, as approved by the Cooperative, containing clarifications or technical revisions that become apparent during the bidding process for distribution by the Cooperative.
- 4. Review and tabulate bids and provide the Cooperative with recommendations regarding contract award.

Contract II: Raw Water Main & Water Treatment Plant

A. Final Design

- 1. Attend a kick-off meeting with representatives of the Cooperative to discuss: i) raw water main locations, utility needs, material considerations, valve spacing, and other design considerations, and ii) WTP site access and layout, equipment preferences, security needs, permitting challenges, and schedule considerations.
- 2. Refine design hydraulics for raw water main sizing and prepare a Technical Memorandum with final recommendations.



- 3. Perform a transient analysis for raw water main and evaluate surge mitigation options.
- 4. Prepare a memorandum presenting the results and the transient analysis and recommended surge control measures.
- 5. Meet with representatives from the Cooperative to discuss sizing, select surge control measures and the material and pressure class of the raw water main.
- 6. Meet with representatives of Osceola County to discuss WTP site access and roadway improvements.
- 7. Update the WTP site plan based on the most current site acquisition activities and feedback from representatives from the Cooperative.
- 8. Prepare a technical memorandum presenting the updated site plan and access concept.
- 9. Conduct a workshop with representative from the Cooperative to discuss the site plan and access concept and finalize these design elements.
- 10. Prepare design calculations and refinement of calculations performed during preliminary design.
- 11. Prepare supporting documentation and conduct workshops to address the following design issues and challenges.
 - Major pumping and process equipment selections (2-day workshop)
 - Piping materials/corrosion control (1-day workshop)
 - Building design and appearance (2-day workshop)
 - Laboratory design (1-day workshop)
 - Site and building security system design (1-day workshop)
 - Electrical system design and equipment selections (2-day workshop)
 - Instrumentation system design and equipment selections (2-day workshop)
 - Control narratives (3-day workshop)
- 12. Prepare a phasing evaluation to address the initial plant capacity and subsequent phasing recognizing the modular nature of the currently proposed components under the preliminary design report. Such components include, but are not limited to the main process building, RO treatment trains, chemical feed systems, intermediate pumping facilities, storage tanks, high service pumping facilities, and standby power components. Subtasks are described below:
 - a. Prepare a draft plant phasing summary and distribute to Cooperative members.
 - b. Organize and conduct a workshop with Cooperative members to present the various options and initial findings and to identify two (2) preferred options for the initial plant capacity. Options featuring current component sizing will be considered along with alternatives featuring modified sizing.



- c. Compile comments resulting from the workshop and refine two (2) preferred options as identified above and subsequently prepare a draft technical memorandum that clearly presents the options under consideration as well as cost capacity and design implications.
- d. Compare and conduct a workshop to discuss the draft technical memorandum and finalize the document pursuant to feedback received at the workshop.
- 13. Coordinate with Duke Energy for primary power service to the WTP site and six (6) well sites.
- 14. Provide professional surveying and utility locating services in support of the design of the WTP and raw water mains. Surveying services will be secured from Johnston's Surveying, Inc. and will consist of a boundary and topographic survey of the WTP site and pipeline route which will include topographic and right-of-way locations. Also, the location of wetland boundaries will be ascertained as well as the locations of underground utilities. Survey work will be in accordance with "Minimum Technical Standards" established by the Florida Administrative Code.
- 15. During design, Tetra Tech shall arrange and pay for an ecological consulting firm to perform an ecological investigation of the six (6) raw water supply well sites, raw water transmission mains route, and water treatment plant site for jurisdictional wetlands and threatened & endangered species (T&E). Field-delineate the jurisdictional wetland limits pursuant to current methodologies of the South Florida Water Management District (SFWMD) [Florida Unified Wetland Delineation Methodology, Chapter 62-340, F.A.C.]. Perform a field assessment to determine the presence of state and/or federally listed species and their associated habitats within the proposed 200' x 200' well sites, 25 – 30 acre water treatment plant site, and along 20,000 LF of raw water transmission main. Survey location of investigation flagging and relocation of T&E species are not included herein.
- 16. During design, Tetra Tech shall arrange and pay for geotechnical investigation/testing firm to provide necessary soils data and other pertinent information required for final design of raw water mains, well sites and WTP structural, roadways and stormwater management elements. Soil boring logs and classifications, existing groundwater levels and estimated seasonal high levels, pipe trench and backfill requirements, and structure/tank foundation requirements will be submitted in report format. Standard Penetration Test (SPT) borings will be conducted within footprint of structures and auger borings will be performed along the raw water main route (spacing of 600 feet) and at the WTP stormwater ponds, roadways and access road. It is estimated that 29 SPT borings will be drilled within the footprint of structures. The field investigation for the pipelines, pond and roadways will include 68 auger borings.
- 17. Prepare a draft of an updated preliminary design report to clearly present the size, type, and configuration of the proposed facilities.
- 18. Meet with the Cooperative to discuss the updated preliminary design report.
- 19. Finalize the draft update of the preliminary design report.



20. Prepare construction drawings for the proposed facilities. A preliminary list of drawings is presented below:

General

Cover Sheet Location Map, General Notes, and Drawing Index (3 sheets) Legend and Abbreviations

Raw Water Main

Plan & Profile (24 Sheets) (Scale 1" = 30' horizontal, 1" = 3' vertical) Details (4 Sheets)

<u>Civil</u>

Raw Water Well Existing Conditions and Site Geometry Plan (6 well sites/6 sheets) Raw Water Well Grading and Drainage Plans (6 well sites/3 sheets) Raw Water Civil Details (2 Sheets) WTP Existing Conditions (2 sheets) WTP Access Road Geometry (4 sheets) WTP Access Road Geometry (4 sheets) WTP Access Road Cross Sections (2 sheets) WTP Access Road Cross Sections (2 sheets) WTP Site Geometry Plan (2 sheets) WTP Site Geometry Table (1 sheet) WTP Grading and Drainage Plan (2 sheets) WTP Stormwater Management Pond Section and Details (2 sheets) WTP Drainage Structure Schedules (2 sheets) WTP Civil Details (4 Sheets)

Landscaping and Irrigation

Raw Water Well Landscaping Plans (6 well sites/3 sheets) WTP Landscaping Plan (2 sheets) Landscaping Schedule & Details (2 sheets) WTP Irrigation Plan (2 sheets) WTP Irrigation Schedule & Details (2 sheets)

Architectural

General Notes and Abbreviations ADA and Life Safety Standards RO Operations and MCC/Electrical Building Life Safety RO Process Building Life Safety (2 sheets) RO Generator Building Life Safety Post Treatment Chemical Building Life Safety Post Treatment MCC/Generator Building Life Safety High Service Pump Building Life Safety RO Operations/Process Areas Composite Plan (2 sheets) RO Operations and MCC/Electrical Area Floor Plan RO Process Area Lower Floor Plan RO Process Area Lower Floor Plan RO Operations and MCC/Electrical Area Reflected Ceiling Plan RO Process Area Upper Floor Reflected Ceiling Plan

Architectural (Cont'd)

RO Process Area Lower Floor Reflected Ceiling Plan RO Operations/Process Building Roof Plan Composite (2 sheets) **RO** Generator Building Floor Plan **RO** Generator Building Reflected Ceiling Plan **RO** Generator Building Roof Plan Post Treatment Chemical Building Floor Plan Post Treatment Chemical Building Reflected Ceiling Plan Post Treatment Chemical Building Roof Plan Post Treatment MCC/Generator Building Floor Plan Post Treatment MCC/Generator Building Reflected Ceiling Plan Post Treatment MCC/Generator Building Roof Plan High Service Pump Building Floor Plan High Service Pump Building Reflected Ceiling Plan High Service Pump Building Roof Plan RO Operations/Process Building Elevations (4 sheets) RO Generator Building Elevations (3 sheets) Post Treatment Chemical Building Elevations (2 sheets) Post Treatment MCC/Generator Building Elevations (2 sheets) High Service Pump Building Elevations (2 sheets) RO Operations/Process Building Sections (4 sheets) **RO** Generator Building Sections Post Treatment Chemical Building Sections Post Treatment MCC/Generator Building Sections High Service Pump Building Sections (2 sheets) Wall Sections (7 sheets) Architectural Details (4 sheets) Architectural Schedules (2 sheets) Renderings (4 sheets)

<u>Structural</u>

Structural General Notes (3 sheets) Typical Well Pump Pad Plan, Section, & Details Typical Generator Fuel Storage Tank Pad Plan, Section, & Details RO Building Foundation Plan (2 sheets) RO Operations/Process Building Foundation Plan (2 sheets) RO Operations/Process Building Roof Plan (2 sheets) RO Operations/Process Building Sections (5 sheets) RO Operations/Process Building CMU Wall Reinforcing Elevations (2 sheets) RO Operations/Process Building Roof Sections (3 sheets) **RO** Generator Building Foundation Plan **RO** Generator Building Roof Plan **RO Generator Building CMU Wall Reinforcing Elevations RO** Generator Building Sections **RO** Generator Fuel Storage Slab Plan & Sections Degasifier/Biotrickling Filter Foundation Plan Degasifier/Biotrickling Filter Slab Plan Degasifier/Biotrickling Filter Upper Plan



Structural (Cont'd)

Degasifier/Biotrickling Filter Sections (2 sheets) Chlorine Contact Structure Foundation Plan Chlorine Contact Structure Top Slab Plan Chlorine Contact Structure Sections (2 sheets) **Transfer Pump Station Foundation Plan** Transfer Pump Station Top Slab Plan Transfer Pump Station Sections (2 sheets) High Service Pump Building Foundation Plan High Service Pump Building Slab Plan High Service Pump Building Roof Plan High Service Pump Building Fuel Storage Slab Plan & Sections High Service Pump Building CMU Wall Reinforcing Elevations High Service Pump Building Sections (2 sheets) Post Treatment Chemical Building Foundation Plan Post Treatment Chemical Building Slab Plan Post Treatment Chemical Building Roof Plan Post Treatment Chemical Building CMU Wall Reinforcing Elevations Carbon Dioxide Feed Area Plan & Sections Lime Feed Area Slab Plan & Sections Post Treatment MCC/Generator Building Foundation Plan Post Treatment MCC/Generator Building Roof Sections Post Treatment MCC/Generator Building Sections (2 sheets) Post Treatment MCC/Generator Building CMU Wall Reinforcing Elevations Post Treatment Generator Fuel Storage Slab Plan & Sections Supply Well Slab Plan & Sections Injection Well Slab Plan & Sections Standard Concrete Details (4 sheets) Standard CMU Details Standard Steel Details (2 sheets) Grating, Stairway, & Handrail Details (2 sheets) Miscellaneous Structural Details (4 sheets)

Process/Mechanical

Process Legend & Abbreviations Raw Water Supply & Conveyance Process Flow Diagram RO Pretreatment Process Flow Diagram RO Skid No. 1 and No. 2 Process Flow Diagram RO Skid No. 3 and No. 4 Process Flow Diagram RO Skid No. 5 Process Flow Diagram Concentrate Loop & Disposal Process Flow Diagram RO Clean-In-Place System Process Flow Diagram Blend Cartridge Filter System Process Flow Diagram Degasification Process Flow Diagram Biotrickling Filter System Process Flow Diagram Chlorine Contact Process Flow Diagram Post Treatment Clearwell Process Flow Diagram Finished Water Transfer Pump Station Process Flow Diagram

Process/Mechanical (Cont'd)

Finished Water Storage System Process Flow Diagram High Service Pump Station Process Flow Diagram Sulfuric Acid Feed System Process Flow Diagram Antiscalant Feed System Process Flow Diagram Fluoride Feed System Process Flow Diagram Corrosion Inhibitor Feed System Process Flow Diagram Sodium Hydroxide Feed System Process Flow Diagram Sodium Hypochlorite Feed System Process Flow Diagram Carbon Dioxide Feed System Process Flow Diagram Lime Feed System Process Flow Diagram Yard Piping/Plans (6 well sites/3 sheets) Well Head Plans & Sections (6 sheets) Well Details (2 Sheets) **Overall WTP Site Yard Piping Plan** Enlarged Yard Piping Plan (2 sheets) Yard Piping Plan & Profile (4 sheets) Yard Piping Schedules (2 sheets) RO Process Building - RO Skid Room Overall Plan **RO Process Building - Pipe Gallery Overall Plan RO Process Building - Cartridge Filters Enlarged Plan & Sections** RO Process Building - RO Feed Pump Enlarged Plan & Sections RO Process Building - Typical RO Skid Enlarged Plan & Sections (2 sheets) RO Process Building - Overall Process Area Sections (2 sheets) RO Process Building - Membrane Cleaning System Enlarged Plan & Sections (2 sheets) RO Process Building - Sulfuric Acid Bulk Storage & Feed System Plan & Sections (2 sheets) RO Process Building - Antiscalant Bulk Storage & Feed System Plan & Sections (2 sheets) RO Process Building - Fluoride Bulk Storage & Feed System Plan & Sections (2 sheets) **RO Process Building - Concentrate Loop Sections** RO Process Building - Instrument Panels (3 sheets) **RO Process Building - RO Feed Pump 3D Perspectives RO Process Building - RO Skid 3D Perspectives** RO Process Building - Overall RO Skid Room 3D Perspectives (2 sheets) **RO Process Building - Overall Pipe Gallery 3D Perspectives** RO Process Building - Chemical Feed System 3D Perspectives (4 sheets) Post Treatment Overall Lower Level Equipment Plan Post Treatment Overall Upper Level Equipment Plan Post Treatment Degasifier & Biotrickling Filter System Enlarged Plan Post Treatment Degasifier & Biotrickling Filter System Sections (2 sheets) Post Treatment Chlorine Contact Chamber Sections Post Treatment Area 3D Perspectives **Clearwell & Transfer Pump Station Lower Level Equipment Plan Clearwell & Transfer Pump Station Upper Level Equipment Plan** Clearwell & Transfer Pump Station Sections (2 sheets) **Clearwell& Transfer Pump Station 3D Perspectives** Finished Water 5.0 MG Ground Storage Tank No. 1 Lower Plan Finished Water 5.0 MG Ground Storage Tank No. 1 Upper Plan Concentrate 2.0 MG Storage Tank Lower & Upper Plans

Process/Mechanical (Cont'd)

Finished Water 5.0 MG Ground Storage Tank No. 1 Sections Concentrate 2.0 MG Storage Tank Sections High Service Pump Station Equipment Plan **High Service Pump Station Sections** High Service Pump Station 3D Perspective **Concentrate Booster Pump Station Plan & Section** Post Treatment Chemical Building Overall Plan **Corrosion Inhibitor Feed System Enlarged Plan Corrosion Inhibitor Feed System Sections** Sodium Hydroxide Feed System Enlarged Plan Sodium Hydroxide Feed System Sections Sodium Hypochlorite Feed System Enlarged Plan Sodium Hypochlorite Feed System Sections Carbon Dioxide Feed System Plan **Carbon Dioxide Feed System Sections** Lime Feed System Plan Lime Feed System Sections **Concentrate Repump Station Plan & Section** Typical Deep Injection Well & Pad Plan & Section Process Details (6 sheets)

Fire Protection

Fire Protection Legend and Abbreviations Fire Protection Site Plan RO Operations/Process Building Fire Protection Overall Plan RO Operations Building Fire Protection Admin Area Enlarged Plan RO Process Building Fire Protection Upper Area Enlarged Plan (2 sheets) RO Process Building Fire Protection Lower Area Enlarged Plan (2 sheets) Post Treatment Chemical Building Fire Protection Plan Fire Protection Details

Plumbing

Plumbing Legend and Abbreviations Fuel System Legend and Abbreviations RO Operations/Process Building Plumbing Overall Plan RO Operations Building Domestic Water Plan RO Operations Building Sanitary Waste & Vent Plan I RO Operations Building Storm Drainage Plan RO Operations Building Plumbing Domestic Water Enlarged Plans RO Operations Building Plumbing Sanitary Waste & Vent Enlarged Plans RO Operations Building Domestic Water Riser Diagram RO Operations Building Admin Area Sanitary Waste & Vent Riser Diagram RO Operations Building Admin Area Storm Drainage Riser Diagram RO Operations Building Domestic Water Plan I RO Process Building Domestic Water Plan II RO Process Building Sanitary Waste & Vent Plan I RO Process Building Sanitary Waste & Vent Plan I RO Process Building Sanitary Waste & Vent Plan I



Plumbing (Cont'd)

RO Process Building Storm Drainage Plan I RO Process Building Storm Drainage Plan II RO Process Building Plumbing Domestic Water Enlarged Plans RO Process Building Plumbing Sanitary Waste & Vent Enlarged Plans RO Process Building Domestic Water Riser Diagram RO Process Building Sanitary Waste & Vent Riser Diagram **RO Operations/Process Building Plumbing Schedules** RO Generator Building Fuel System Overall Plan **RO** Generator Building Fuel Storage Plan **RO** Generator Building Fuel Piping Plan **RO** Generator Building Fuel System Schematic & Schedules Post Treatment Chemical Building Domestic Water Plan Post Treatment Chemical Building Sanitary Waste & Vent Plan Post Treatment Chemical Building Riser Diagrams Post Treatment Chemical Building Plumbing Schedules Post Treatment Generator Building Overall Fuel Plan Post Treatment Generator Building Fuel Storage Plan Post Treatment Generator Building Fuel Piping Plan Post Treatment Generator Building Fuel System Schematic & Schedules High Service Pump Building Domestic Water Plan High Service Pump Building Sanitary Waste & Vent Plan High Service Pump Building Fuel System Overall Plan High Service Pump Building Fuel Storage Plan High Service Pump Building Fuel Piping Plan High Service Pump Building Domestic Water Riser Diagrams High Service Pump Building Sanitary Waste & Vent Riser Diagrams High Service Pump Building Fuel System Schematics & Schedules High Service Pump Building Plumbing Schedules Plumbing Details (3 sheets) **Fuel System Details**

HVAC

HVAC Legend and Abbreviations RO Operations/Process Building HVAC Overall Plan RO Operations Building HVAC Plan RO Operations Building Electrical Room HVAC Plan RO Process Building HVAC Plan I RO Process Building HVAC Plan II RO Operations/Process Building HVAC Enlarged Plans I RO Operations/Process Building HVAC Enlarged Plans II RO Operations/Process Building HVAC Sections I RO Operations/Process Building HVAC Sections I RO Operations/Process Building HVAC Sections II RO Operations/Process Building HVAC Controls I RO Operations/Process Building HVAC Controls I RO Operations/Process Building HVAC Schedules I

HVAC (Cont'd)

RO Generator Building HVAC Sections **RO Generator Building HVAC Controls RO Generator Building HVAC Schedules** Post Treatment Chemical Building HVAC Plan Post Treatment Chemical Building HVAC Sections Post Treatment Chemical Building HVAC Controls Post Treatment Chemical Building HVAC Schedules Post Treatment Generator Building HVAC Plan Post Treatment Generator Building HVAC Sections Post Treatment Generator Building HVAC Controls Post Treatment Generator Building HVAC Schedules High Service Pump Building HVAC Plan High Service Pump Building Enlarged HVAC Plans High Service Pump Building HVAC Sections High Service Pump Building HVAC Controls High Service Pump Building HVAC Schedules HVAC Details (5 sheets)

Electrical

Electrical Legend and Abbreviations Function Diagram – Raw Water Supply Wells **Function Diagram- Treatment Plant** Functional Diagram - Injection Wells Raw Water Well Site Electrical/Lighting Plan (6 well sites/3 sheets) Raw Water Well Single Line Diagrams (6 well sites/3 sheets) Typical Generator & Fuel Storage System Electrical Plan **Electrical Schedules** Electrical Details (2 Sheets) Electrical Location Plan **Electrical Site Plan Electrical Site Plan Networks Electrical Site Lighting and Security Plan** Site Lighting Illumination Levels **Electrical Site Plan - Injection Wells** Electrical Site Plan – On-Site Raw Water Supply Well Electrical Site Plan - Remote Injection Well Ductbank Sections (4 sheets) **RO Building Switchgear Single-Line** RO Building MCC Single-Line (2 Sheets) **Electrical Switchgear Single-Line HSP's** High Service Pump MCC Single-Line Post-Treatment Switchgear Single-Line Post-Treatment MCC Single-Line **RO** Generators Switchgear **Injection Well Single-Line RO Building Main Switchgear Control Schematics** High Service Pump Building Main Switchgear Control Schematics Generator Switchgear Control Schematics (2 sheets)



Electrical (Cont'd)

Post Treatment Power Systems Control Schematics High Service Pump Control Schematics (6 sheets) Post Treatment MCC Control Schematics (2 sheets) RO MCC Control Schematics (4 sheets) Calcium Hydroxide Area Power Plan and Grounding Carbon Dioxide Area Power Plan and Grounding Transfer Pump Area Power Plan and Grounding (2 sheets) Chlorine Contact Basin Power and Grounding (2 sheets) Biotrickling Filter/Degasifiers Power and Grounding (2 sheets) **Concentrate Repump Station Power Plan ROC Booster Pump System Power Plan** Concentrate Storage Tank Power Plan **Concentrate Storage Tank Lightning Protection** Ground Storage Tank Power Plan Ground Storage Tank Lightning Protection **RO** Generator Fuel Storage Power and Grounding Plan High Service Pump Fuel Storage Power and Grounding Plan Post-Treatment Fuel Storage Power and Grounding Plan Main Gate Power and Controls **Access Driveway Power and Controls** Operations Building Power Plan (2 sheets) **Operations Building Lighting Plan (2 sheets)** Operations Illumination Calculations (2 sheets) **Operations Building Grounding Plan Operations Building Lightning Protection Plan Operations Building Enlarged Plans (3 sheets)** Process Building Power Plan (2 sheets) Process Building Lighting Plan (2 sheets) Process Building Illumination Calculations (2 sheets) Process Building Grounding Plan Process Building Lightning Protection Plan Process Building Enlarged Plans (3 sheets) **RO** Generator Power Plan **RO** Generator Lighting Plan **RO** Generator Illumination Levels **RO** Generator Grounding Plan **RO** Generator Lightning Protection Plan High Service Pump Generator Power Plan High Service Pump Generator Lighting Plan High Service Pump Generator Illumination Levels High Service Pump Generator Grounding Plan High Service Pump Generator Lightning Protection Plan High Service Pump Building Power Plan High Service Pump Building Lighting Plan High Service Pump Building Illumination Levels High Service Pump Building Grounding Plan High Service Pump Building Lightning Protection Plan

Electrical (Cont'd)

Post Treatment Building Power Plan Post Treatment Building Lighting Plan Post Treatment Building Illumination Levels Post Treatment Building Grounding Plan Post Treatment Building Lightning Protection Plan Post Treatment Chemical Building Power Plan Post Treatment Chemical Building Lighting Plan Post Treatment Chemical Building Illumination Levels Post Treatment Chemical Building Grounding Plan Post Treatment Chemical Building Lightning Protection Plan Panel Schedules (6 sheets) Control Schematics (3 sheets) Remote Raw Water Well Control Schematic Remote Injection Well Control Schematic Standard Electrical Details (5 sheets)

Instrumentation

Instrumentation Legend and Abbreviations **Concentrate Storage Process & Instrumentation Diagram Concentrate Repump Process & Instrumentation Diagram On-Ste Injection Well Process & Instrumentation Diagram** Raw Water Supply Well Process & Instrumentation Diagram **Remote Injection Well Process & Instrumentation Diagram ROC Booster and Repump Process & Instrumentation Diagram** Ground Storage Tank Process & Instrumentation Diagram Chlorine Contract Process & Instrumentation Diagram Transfer Pump Process & Instrumentation Diagram **Degasifier Process & Instrumentation Diagram Biotrickling Filter Process & Instrumentation Diagram Chemical Area Process & Instrumentation Diagram** RO Process & Instrumentation Diagram (8 sheets) Network Architecture (2 sheets) **Remote Telemetry Architecture Remote Wells RO Process PLC Layout** Post Treatment PLC Layout **HSP PLC Layout Remote Injection Well RTU Layout** I/O Lists (8 sheets)

- 21. Prepare a project manual that contains technical specifications for competitive bidding by the CMAR. The project manual and its contents will be formatted in accordance with the Construction Specification Institute (CSI) and prepared using Microsoft WORD[®]. The drawings will be prepared using the latest version of AutoCAD.
- 22. Provide ten (10) sets of drawings and specifications and attend design review meetings with representatives from the Cooperative at the 60% and 90% completion levels. Comments, responses, and revisions will be logged following each review meeting.



- 23. Assist the Cooperative in review of construction cost estimates prepared by the CMAR.
- 24. Provide ten (10) sets of drawings and specifications at the 100% completion level along with electronic files.
- 25. Conduct discipline coordination and QA/QC reviews in accordance with Tetra Tech's documented procedures.

B. Permitting

Tetra Tech will prepare and submit the following permit applications and supporting documentation to the Florida Department of Environmental Protection (FDEP) and the Osceola County Growth Management Department to obtain permits for construction and operation the proposed facilities. Tetra Tech will also respond to requests for additional information (RAIs) from permitting agencies to clarify the original applications. All permit application fees will be paid by the Cooperative.

- 1. Prepare and submit an application for a utility permit to Osceola County for the raw water main and respond to RAIs.
- 2. Complete FDEP Permit Application Form 62-555.900(1) for the proposed raw water main and respond to RAIs.
- 3. Complete FDEP Permit Application Form 62-555.900(1) for the proposed raw water supply wells and WTP and respond to RAIs.
- 4. Prepare and submit applications for FDEP Bulk Fuel Storage Tank Registrations.
- 5. Prepare and submit application for FDOH onsite septic system.
- 6. Prepare and submit a single application for an FDEP Environmental Resource Permit (ERP) for the Raw Water Supply Well sites, raw water main and WTP and respond to RAIs. It is anticipated that construction within wetlands will be minimized with limited offsite and mitigation not required.
- 7. Attend a preapplication meeting and subsequently prepare and submit documentation in support of an Osceola County rezoning application pertaining to the well and WTP sites. Also, attend two (2) public meetings regarding the rezoning process.
- 8. Prepare and submit a single application to Osceola County Growth Management Department for a Site Development Plan (SDP) review for the WTP and Raw Water Supply Well sites. Prepare for and attend one (1) Technical Review Committee (TRC) pre-application meeting, one (1) TRC meeting, one (1) Planning Board meeting, and one (1) County Commission meeting. Tetra Tech will respond to requests of the TRC and Osceola County engineering with the Cooperative's authorization as required for approval.



C. CMAR Bidding Services

It is anticipated that the Cooperative will retain a Construction Manager at Risk (CMAR) to handle bidding, procurement, and construction of the proposed facilities. Tetra Tech will not be a part of the CMAR evaluation and selection process and will only address the following tasks once the CMAR is formally under contract with the Cooperative.

- 1. Furnish the Cooperative with a set of construction documents in electronic format (Acrobat PDF) for use in bidding of the project by the CMAR. Assist the Cooperative during bidding and provide technical clarifications as needed.
- 2. Furnish the selected CMAR with a "master set" of construction documents in electronic format, as well as 24" x 36" full scale drawings and a "master set" of technical specifications for use in reproducing individual bidding packages. The Cooperative will be provided three (3) copies of the "master set" of construction documents with copier reproducible 11" x 17" scaled half size drawings. Electronic formats for the drawings will be the current version of AutoCAD and Acrobat PDF. For the specifications, the formats will be Microsoft WORD[®] and Acrobat PDF.
- 3. Prepare and issue addenda, as approved by the Cooperative, containing clarifications or technical revisions that become apparent during the CMAR bidding process.

Contract III: Deep Injection Well

The Cooperative received the FDEP Underground Injection Control (UIC) well construction and testing permit for three (3) Class V Group 4 desalination concentrate injection wells on January 30, 2017 which will accept concentrate from the proposed WTP. The FDEP UIC Class V permit requires the installation of a shallower single-zone monitoring well located within 150 feet from each injection well.

The first injection well will be used as an exploratory well to evaluate the potential feasibility for disposal of RO concentrate with a targeted capacity of 2.0 MGD. Based on the data collected from the construction of the first injection well IW-1, well IW-2 will be constructed. This scope of work only includes budget for final design, bidding and construction of well IW-2. Due to the nature of this first injection well, FDEP is requiring that Class I injection well design and testing criteria be followed for this Class V Group 4 injection well. As with Well IW-1, a well drilling contractor pre-qualification package will be used to screen interested bidders such that only qualified well drilling contractors with FDEP UIC Class I well drilling experience will bid on the work.

A. Final Design

- 1. Attend a kick-off meeting with representatives of the Cooperative to finalize well locations and other design considerations.
- Prepare updates to the well design, bidding and contract requirements, and technical specifications based on information obtained from the construction of Injection Well IW-1 for the construction of one (1) additional injection well and one (1) single-zone monitoring well. A preliminary list of drawings is presented below:



<u>General</u>

Cover Sheet Location Map, General Notes, and Drawing Index Legend and Abbreviations Flow Schematic

<u>Civil</u>

Proposed Well Location and Site Plan

Process/Mechanical

Proposed Injection Well (IW-2) Construction Details Proposed Single-Zone Monitor Well Construction Details Proposed Shallow Monitor Well Construction Details Proposed Injection Well Head and Single-Zone Monitor Well Head Construction Details

- 3. Prepare a project manual that contains bidding and contract requirements and technical specifications for competitive bidding. The project manual and its contents will be formatted in accordance with the Construction Specification Institute (CSI) and prepared using Microsoft WORD[®]. The drawings will be prepared using the latest version of AutoCAD.
 - a. Bidding and contract requirements will be prepared using TWA standard front-end documents. Tetra Tech will prepare the project bid form, summary of work and measurement and payment sections. Any changes to the TWA standard documents will be reviewed and approved by TWA.
 - b. Technical specifications and engineering drawings for construction and testing of one (1) injection well (IW-2) and one (1) single-zone monitor well will include, at a minimum, drill-site water quality sampling and analysis, geophysical and video logging, packer testing and other miscellaneous items required.
- 4. Provide professional surveying and utility locating services in support of the design of the injection and monitoring wells. Surveying services will be secured from Johnston's Surveying, Inc. and will consist of boundary and topographic surveys of the injection well sites along with the location of wetland boundaries and underground utilities. Survey work will be in accordance with "Minimum Technical Standards" established by the Florida Administrative Code.
- 5. Provide ten (10) sets of drawings and specifications and attend design review meetings with representatives from the Cooperative at the Draft and Final completion levels. Comments, responses, and revisions will be logged at following each review meeting.
- 6. Prepare an opinion of construction costs based on previous bid tabulations, vendor quotes and estimates provided by contractors. Opinion of construction costs will be provided with the Draft and Final submittals.
- 7. Provide ten (10) sets of drawings and specifications at the Final completion level along with electronic files.



8. Conduct discipline coordination and QA/QC reviews in accordance with Tetra Tech's documented procedures.

B. Permitting

Since the existing Class V Well Construction and Testing permit was received on January 30, 2017, it will expire on January 30, 2022. Once the injection wells are placed into operation, they will operate for approximately two years in the operational testing phase under the Class V Well Construction and Testing permit prior to receiving an Operating Permit. Since these wells are expected to take 12 months each to construct, it is expected that the existing Class V Well Construction and Testing permit will need to be renewed at least once and possibly twice prior to applying for the Operating Permit. No budget is provided for this Class V permitting renewal task at this time.

C. Bidding Services

It is anticipated that the Cooperative will handle administrative tasks related to competitive bidding of the proposed facilities. Tetra Tech will address the following tasks.

- Furnish the Cooperative with a "master set" of construction documents in electronic format, as well as 24" x 36" full scale drawings and a "master set" of technical specifications for use in reproducing individual bidding packages. The Cooperative will be provided three (3) copies of the "master set" of construction documents with copier reproducible 11" x 17" scaled half size drawings. Electronic formats for the drawings will be the current version of AutoCAD and Acrobat PDF. For the specifications, the formats will be Microsoft WORD[®] and Acrobat PDF.
- 2. Attend a prebid conference to discuss the general scope of the project and document questions from prospective bidders.
- 3. Review qualification submittals from prospective well drilling contractors and provide recommendations related to prequalification for bidding.
- 4. Prepare addenda, as approved by the Cooperative, containing clarifications or technical revisions that become apparent during the bidding process for distribution by the Cooperative.
- 5. Review and tabulate bids and provide the Cooperative with recommendations regarding contract award.



III. COMPENSATION SUMMARY

The total lump sum compensation for the Scope of Services described in Section II is summarized below. **Attachment A** presents a detailed breakdown of the estimated compensation for the Scope of Services.

Task	Phase	Compensation										
Project Management \$766,829												
Contract I: Raw Water Supply Wells												
А	A Final Design \$128,99											
В	Permitting	\$25,120										
С	C Bidding Assistance											
Sub-Total		\$177,255										
	· · · · · ·											
Contract II: Raw Water Main & Water Treatment Plant												
А	A Final Design \$											
В	Permitting	\$184,463										
С	CMAR Bidding Assistance	\$91,574										
Sub-Total		\$5,713,611										
Contract III: Cl	ass V Deep Injection Well IW-2											
А	Final Design	\$66,950										
С	Bidding Assistance	\$11,588										
Sub-Total		\$78,538										
TOTAL ESTIMATED LUMP SUM COMPENSATION \$6,736,233												

IV. SCHEDULE

A detailed project schedule that addresses each activity is presented in **Attachment B**, along with estimated fee drawdown over the project duration in **Attachment C**.





Price Proposal		-							Labor Plan															Attachment A		
Cypress Lake Program - Final					\square				45 hesbarce																	
Design, Permitting, and Bidding	Proj Area >	PM PM	RM RM Admin	ovi ovi		QC Process	Process P	Process Process	Process Process Process	Process - CALOC Side En	ngineer And	htechal - Architectural Architectural	al Architectural Architectural	Structural - Structural	Structural Structural Structura	cal Mechanical Mecha	nical Mecha	inical Mechanical	Dectrical/NE Dectrical Dectric	al ULC ULC	Electrical	Hydro	Hydro Hydro Hydro			
Beatty)		aperrent nagor an ager	a mere	ja j	¥ .		je	ě ě	an an			pot to			9 9 9 8		1	9	ē	ji ji	200	tigo pale	zigo bego	Pricing b	y Resour	e
Contract Type: Lump Sum	Total	r ogram Mu	isk Menuge isk Menuge	M roject Engl	AD Designs	r Oness	r oject Engli	r oject Engl	r olect treps r CAD Deeg	r Brighnen mideo RD B	rchbiddare	r Archibect roject Ardh	AD Deligne	ructural fingment	reject Engl	Achanical C Engineer	rolect Erres	r oject Engl	r Brighner r. Engin er	r. Engineer	r CAD Desi	ydrogeo enior Hydr	M M erior Hydo erior Hydo ofect	laber for		Task Pricing
Project Phases / Tasks Project Management	41,579 3.984	6. 6. 0 817 4,439 444 1,678	1 114 152 582	5 901 501 t 70 -	i 492 1,291 9	6 2,337	366	1,479 1,158	1,838 2,897 984	571	•	918 1,220 1,440 82 -		240 745	1,344 · 1,6	92 210	720 1,	410 1,388	- 82	70 548 1,091	2,640	14	14 40	6,373,499 314,609 - 766,829	48,125	6,736,233
1. Project Administration 2. Prepare Project Management Plan	1,528	260 928	340	1							-													298,784 15,094		298,784 15,094
Prepare Project Schedule A. Risk Register 4.1 Initial Workshop	690 60	72 244	1 114 152 1 1 12 1	1 · ·																				- 144,500 - 9,183		\$3,244 144,950 9,182
4.2 Risk Identification 4.3 Impact Assessment & Contingency Measures 4.4 Risk Register Workshop	64 60 64	4 8 4 22 8 12	t 55 56 t 8 56 t 55 24 6	4	++-						-				* * * * * * * * * * * * * * * * * * *									9,700 12,323 13,664		9,700 12,323 13,664
4.5 Finalize Risk Register 4.6 Meet with OAAR Firm for Construction Risk Assessment 4.7 Lindets Disk Basister	28 40	4 8 8 12	1 20 16 1 20 1 22 40																					8,180 9,693 92,416		8,180 9,692 92,416
S. Monthly Project Status Reports S. 1 Prepare Status Reports	1,402 926	72 286 72 200	· · · · · · · · · · · · · · · · · · ·	70 70 -		- 190 83	286					82 · ·		- 82 82	• •		82 82		- B2 82					· 257,653 · 174,698		257,653 174,698
5.2 Update Schedules and Budgets 6. Quality Management Plan CONTRACT I: RAW WATER SUPPLY WELLS	676 85 677	16 40 36 62		20 20	5 - 8	4 109	286	203 -	- 24 -	13	-											14	14 40	83,155 15,094 0 104,771 70,834	1,650	82,155 15,094 177,255
A. Final Design 1. Prepare and Attend Project Kick-off Meeting 2. Prelminary Well Site Screening (6 Well Sites)	441 24 23	32 50 4 4 2 4		a 20 20 2 5		4 63		137 - 7 14	- 24 -	10														- 69,915 57,936 4,555 5,389	1,100	128,951 4,556 5,289
Coordinate Project Survey A. Design Project Manual Tech Specs (6 Well Sites) Counter Project Manual Tech Specs (6 Well Sites)	46 104	4 6	6	8	8	4 5	R	8 22			-				-									8,449 22,000 11,795		20,649 11,795
5. Denger Project manual channing (or two asses) 6. Opinion of Cost (50 & 100% Submittals) 7. Project Coordination and QA/QC	10 26	12				10	5	16		90	-													4,655		4,956
B. Design Review Meeting at 60 and 90% Submittals (2) Prequalification of Well Drillers 10. Subconsultant AAI	46 48	10 12		4	++-	10	2	12 24			-				* * * * * * * * * * * * * * * * * * *									9,109 7,481 25,936		9,109 7,681 25,935
11:000s B. Permitting 1:500M/J/00H Well Construction Permits Assistance	150	- 10				. 20		32 .			-				* *							14	14 40	20,911 3,934 1.658	1,900 275	1,100 25,120 1.688
2. FDIP Generic Discharge Permit Assistance 2. 10-Year Compliance Report per WUP Condition No. 22	50							24			-											14	14 40	8,611 10,612		8,611 10,612
3.1 Decements Project Demands Write Anocation 3.2 Prepare Droft WUP Compliance Report 3.3 Finalized Droft Compliance Report	63 20 10										-											4	6 24 6 12 2 4	8 2,606 2 1,255		5,751 2,606 1,255
4. Subconsultant AN 5. ODC: C. Bidding Services	85	4 2	13	,		. 26		34 .		3	-													- 13,944 8,954	275	2,934 275 23,183
Provide Purchasing Master Bid Set Prepare for and Attend a Pre-Bid Conference Prepare Inductor	4 10			2			8	14			-				-									2,067		366 2,067
4. Tabulate and Evaluate Bids 5. Prepare a Recommendation of Award	22			8			k 1	16																4,665 1,604		4,641 1,604
6. Subconsultant AA 7. COCs CONTRACT III: RAW WATER MAIN & WATER TREATMENT PLA	36,658	311 2,657	585	803 881	1 492 1,277 8	1,978	124	1,276 1,158	1,838 2,844 984	525		836 1,220 1,446	8 8	240 664	1,344 - 1,6	82 210 6	638 1,4	410 1,388	514 1,472 1,4	0 548 1,091	2,640			- 5,456,456 211,505	275	8,954 275 5,713,611
A. Final Design 1. Prepare and Attend Project Kick-off Meeting 2. Refine Design Hydraulics for Raw Water Main Sizing prepare Tech Me	14,833 50	223 2,537 4 5	40	5 554 809 6	246 1,111 8	16 1,872 5	1 124	1,236 1,088 8 60	1,676 2,784 984 8	521 8 6	-	832 1,196 1,440		240 648	1,344 - 1,6	68 210	620 1,	362 1,388	506 1,432 1,4	54 548 1,057	2,616			- 5,182,068 211,595 9,611 11,954	44,000	5,437,573 9,611 11,956
Perform Transient Analysis & Mitgation Options w/Recommendation A. Review Meeting on Transient Mitgation Recommendation	170			8		40	08 0 8 8	26		20	-													28,866		28,866
S. Meet with Osceola County on Site Access & Roadway Improvements G. Update WTP Site Plan (Final Site Selection) 7. Prepare Tech Memo on Updated Site Plan and Access	26 166 62	8 16 4 6		10 18 26 4 8 16	16 32 6	5	k 5		20 8		-	6		6					6					5,922 22,758 10,684		5,937 22,759 10,688
E. Conduct Workshop on the Site Plan and Access Concept Survey Coordination (Well Sites, RWM & WTP) Design Calculations	40 76 1,274	4 6 4 3		8 12 6 10 - 40 128	6 6	6 16 - 40	i 12	80 160	80	40	-			. 48		. 46	84	46 .	50 120					6,823 12,826 66,000 - 200,626 -		6,822 79,826 200,626
10.1 Civil 10.2 Structural	200 218 340			40 120	40						-			48	170 -				70 MA					22,724		23,734 21,066
10.4 HVAC/Plumbing 10.5 Process/hydraulic Refinements	176	40				40	5	80 160	80	40	-					46	84	45						27,897 72,135		27,897
WTP Design Workshops: Prepare Supporting Documentation II.1 Major Pumping and Process Equipment (2 Days) II.2 Piping Materials and Corrasion Control (1 Day)	820 108 59	58 96 8 16 6 3	i 11 i 11	5 · · ·		- 154	56 0 16 2	- 18	- 18 -	112 18 20	-	24 8 1			• •		-		60 101	24 22 56	20			- 172,472 - 22,971 12,175		172,472 22,971 12,175
11.7 Building Design and Appearance (1 Day) 11.4 Laboratory Design (1 Day) 11.5 Site and Building Security System (1 Day)	76	4 5 4 5				16	5		18	8 18 8	-	24 8 1					_							14,997 12,782 8,724		14,997 12,782 8,734
11.6 Electrical Design and Equipment Selections (2 Days) 11.7 Instrumentation Design and Equipment Selections (2 Days) 11.8 Control Neuration (2 Days)	151 122	8 16 8 16				16	5			20 26	-				-				20 45 16 24	24	12 8			20,528 27,552		20,525 27,552
12. Phasing Evaluation 12. Phasing Evaluation 12.1 Prepare & Distribute Draft Phasing Summary	272	9 11	10	6 - ·		- 45		116 48 22 16	- 18 - 2		-				• •		-							• 43,679 -		40,720 40,879 12,628
12.2 Organize & Conduct Workshop 12.3 Compile Comments & Prepare Draft Tech Memo 12.4 Conduct Workshop & Finalize Tech Memo	112 51 25	1 2		2 8 4	++-	30	8	60 20 16 8 8 4	6 8 6	2	-				* * * * * * * * * * * * * * * * * * *									17,340 7,879 6,221		17,340 7,879 6,231
11. Project Manual Tech Specifications 14. Dake Energy Coordination (Well and WTP Sites) 15. Engineeral Insustantion (Well Site. Save Water Main & WTP)	1,016 208 26	16	160	0 12 40 8 8 8		40	5	80 40	120	35	-	16 40		16	40 -		12	40	24 80 120	40 40 120 40				147,282 38,985 4,485 82,520		147,283 38,985 86,986
16. Geotechnical Investigation (Well Site, Raw Water Main, & WTP) 17. Prepare Draft Update of PDR	26 636	8 40	8	0 8 16	6 8	16	a a	10 40 40	80 24 80	55	-	8 24 4	5	10 4	8 ·	4	12		8 40		24			4,510 63,005 58,511	i .	67,515 88,511
18. Neet with Cooperative 19. Finalize Updated FOR 20.1. General Drawings	228	4 16 - 15				- 24	8 -	a 16 8 	40 6 60 40 90	4	-	8 1							4 16 		12			20,944		20,944 26,580
Low Complexity (5 Sheets) 20.2 Raw Water Main Drawings Plan & Profile (24 Sheets)	169 1,980 1,656	- 56 - 50	i		+++	- 20 - 200	1 1 1	- 670 550	40 90 864 720		-				* *				• •				• •	- 25550 - 298549 - 250529		26,580 298,549 250,529
Details (6 Sheets) 20.3 Civil Drawings Low Complexity (12 Sheets)	324 1,926 476	· 238		- 344 583 52 400	7 · 785			120			-													48,020 - 249,585 - 59,218		48,020 249,585 50,210
Moderate Complexity (22 Sheets) High Complexity (2 Sheets)	1,274	140		252 221 36 54	1 504 4 66						-													147,065 23,201		167,065 29,201
20.4 Landscaping and imgesteen birawings Low Complexity (11 Sheets) 20.5 Architectural Drawings	534 8,359	- 11			186 280 							658 1,108 1,382	t											64,015 - 615,028		64,015 415,028
Low Complexity (23 Sheets) Moderate Complexity (23 Sheets) High Complexity (4 Sheets)	1,426 1,481 352	40			++-						-	264 528 584 222 660 664 72 120 144	1		* * * * * * * * * * * * * * * * * * *									180,279 189,395 45,353		180,279 189,395 45,353
20.6 Structural Drawings Low Complexity (28 Sheets) Moderate Complexity (35 Sheets)	2,475 980 1,820	· 18				-					-			- 556 168 280	1,126 · 1,6 280 · 5 630 · 5	48 · ·	-							- 474,201 - 122,645 - 248,475		474,201 133,446 248,476
High Complexity (9 Sheets) 20.7 Process Mechanical Drawings	675	- 612				. 996		864 -	1,268 2,592		-			108	216 - 1	24								92,279 • 998,780 •		92,279 988,780
Low Completery (schmeets) Moderate Complexity (48 Sheets) High Complexity (18 Sheets)	1,933 2,939 1,439	· 22				- 33 - 48	0	575	500 900 680 1,153 388 540															302,451 640,357 229,409		\$21,854 61,857 225,859
20.8 Mechanical Drawings Low Complexity (47 Sheets) Moderate Complexity (17 Sheets)	2,268 1,818 1,028	- 100				1 -					1						504 1 300 344	226 1,388 770 758 386 304			-			- 242,552 - 210,275 220,661	-	242,552 284,875 226,84
High Complexity (5 Sheets) 20.9 Electrical Drawings Low Complexity (57 Sheets)	5,509	- 70			++++	· I ·											-	380 388	- 915 1,1		2,560					42,723 \$43,299 20.400
Moderana Complexity (H6 Sheets) High Complexity (20 Sheets)	2,802	· 20			++														- 380 - 225		511 1,111 681			,480 180,100 187,000		201,822 362,323 387,638
20.30 Instrumentation Drawings Low Complexity (19 Sheets) Moderate Complexity (12 Sheets)	1,507 025 025	- 199 - 3																		- 462 851 144 385 206 40	Ē			- 251,671 9,210 101,502		251,671 91,214 121,343
High Complexity (5 Sheets) 21. Design Review Meetings at 60 and 90% Submittals (2) 22. Project QA/QC	211 224 1,400	16 24 80 45		4 16	<u>+</u> +	10		32	32	26 280	1	8 120	+ -	8		160			16	118 128 8				0,875 28,572 230,920	-	00,0% 28,572 230,920
23. DOCs 8. Permitting Services 1. Generals County BIW	1,217	72 96		1 241 72	2 246 142	- 65		. 54	B2 20 -	4							10	24 .						. 10,163 .	44,000	44,000
Osceola County Driveway Connection Permit (7) S. FDEP Specific Permit Raw Water Main	52 142 36			6 46	85	10	k	26													-			n, rab 19,177 6,119		8,755 19,177 6,119
4. FDIP Form 62-555-500(1) Wells and WTP 5. FDIP ERP Application Wells, Raw Water Main and WTP 6. EDID Bulk Engl Stream Tack Bestitizations (3)	110			8 42	82 66	16			64 12	4							-	34						16,553	<u> </u>	16,552 29,899 4,734

T Price Proposal		Labor Plan										Att	achment A																													
														43 Resou	irce																											
Cypress Lake Program - Final																																										
cypress take rrogram - rman																																										
Design, Permitting, and Bidding	Proj Acea >	254 25	/ eM	254	Admin	0.4	04	04	04 04040	v arrent	Process	Increase	Brocker 6	Descus I	Process	Process -	Che Engineer	Archtectual -	Artitutural A	chitectural Act	rhitertural aut	award	Structural - Structural	Stortural	Structural Structure	Mecha	anical Martanical	Machanical	Mechanical	Rectrical/18	Detrine Detrine	147	44	Dartrical	Huden	Hutton	Hertro	Huden.				
																04402	and angle and	04/07					04/00			041	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			C.0400					- cquar			.,				
Submitted to: Toho Water Authority (Attn: Deb				-																							_								~	~	~				_	
Beatty)		A A																																	19	8	19		Pric	cing by I	Resource	3
		100 U		100	-6		je j	le l			je j	ě.	6	ě.	20				feet					ě.	2000			je j	ě.		100		ja j	200	8	8	8	5				
Contract Type: Lump Sum		Man Man	9	8	1dr	8	2	2	6 8	8	8	2	2	8	and here	8	8	oct bure	5	ě	Ş.	N N	8 8	2	2 2	Col Kol	8	2	8 .	8	8 (S	8	2	ž	8 2	÷.	2	da la				
	Total	pran bran	1	No.	ect.	- 5	E C	ect 1	-90 181	n Bit	ET.	E .	- E	ect.	20 B	5	80	wch8	bet.	ě.	ě.	ether ether	5 5	E E	200	then the		ect.	pect 1	5	lect lect	2	loct 1	ĕ	No.8	r a	Ť.	Poge 1				ask Pricing
	Labor Hrs	0 M 0 M	2	2	Pro-	20 2	ŝ	5 5	3 33	P.0	8	ž	ŝ	5	3 3	ä	ŝ	Arc Sr J	Š	3	ğ	3 8	2 2	ě.	× ×	Sc. 1		26	P o	ä	- 5 - 5	3i	δ.	ă.	Par Sea	8 E	ş	Pro HA	Labor	Subs	ODCs	Totals
Project Phases / Tasks	41,579	817 4,	439 1	14 1	52 1,305	901	901	492	1,291 \$	6 2,33	7 551	1,479	1,158	1,838	2,897 90	14 571		918	1,220	1,446	8	8	240 745	1,344	- 1,65	92	210 720	1,410	1,388	514	1,554 1,43	0 548	1,091	2,640	14	14	40	20	6,373,499	314,609	48,125	6,736,233
7. FDDH Onsite Septic System Permit	66		2		-4	4					8			18	8										-														6,723			6,723
8.00Ci																																									275	275
9. Osceola County Reapoing	328	60	"		- 22	72	22	-	48	-	-	-			-				-	-		-								-	-		-				-	-	\$2,562	-	275	\$2,837
9.1 Preapplication Meeting	24	8	â			8	1																		-														5,218			5,318
9.2 Prepare Application & Documentation	108	4	*		16	16	40		24								-																		_				12,763			13,763
9.3 RAI Response	52	4	8			ŝ	24		8																														7,458			7,458
9.4 Public Meetings	166	24	40		16	40	1 2		16		_						-																		-				26,023			26,023
9.5 00 Ci			_								-					_								_								_			_						1/5	16
10. Osceola County Site Development Plan (SDP)	154		-		· 10				45	-	-				-	-				-		-				-					-			-					19,811		250	29,201
10.1 INC HYP-Apparation Meeting	28		_			14		12		_	_						-							-											-				0,003			6,655
10.2 Denning Board Meeting	24		_	-							-					-		-						-								_			-				A 644			8,439 A 644
10.4 County Commission Meeting			-	_		-		-																-								_			-				2,201			2.201
10.5 Engineering Plan Review	140	4		-	16	40		40	40																		_								-	-			18.763			18,763
186000				-																												-									550	550
C. Bidding Services (CMAR)	601	16	24		- 92			-	24	- 4		40	16	50	40			4	24				- 16			24		26			40 3	6 .	24	24			-	-11	91.024	-	550	91.574
1. Provide CMAR Master Bid Set	20				12				8																														2,053			2,053
2. Prepare and Issue CMAR Addenda	588	16	24		80	8	1		16	4	10	40	16	80	40			4	24		8	8	16	5	-	24	8	24		8	40 1	6	24	24					\$8,971			88,971
3.000																																									550	550
CONTRACT III: DEEP INJECTION WELL	260	26	42		- 49	8			6	6	- 61				29	. 33															-							-	45,443	32,270	825	78,538
A. Final Design Services	211	26	34		. 15				6	6	- 43		-		24	- 29						-				-				-	-							-	38,243	28,057	550	66,950
1. Prepare for and Attend a Project Kick-Off Meeting	22	4	4		4						S					5																							4,276			4,376
2. Prepare Bidding and Contract Requirements	24		2		10						\$					4	1 -								-										_				2,504			2,504
3. Survey Coordination	28	2	6			8	1		6	6																													5,248	11,000		16,348
 Prepare Design Drawings and Specifications 	66		8		10						16				24	8	1																						10,275			10,375
5. Opinion of Cost (50 & 100% Submitten)	19		4		2											4								_								_			_				2,167			8,157
6. Project coordination and Up/Up.	12	12														-								_								_			_				4,452			1,452
Consign memory memory at the and more advertision (a)	60									_														-											-				8,122	12.073		8,122
8.000			_		-					_	_						-							-											-					17,010	77.0	17,051
R. Ridding Services	43				14						. 10					. 4																							7 100	4 211	225	11 588
1. Drouble a Dutrabulou Master Bid Set	5		-	-	2										3	-								-								-							621			621
2. Prenara for and Attend a Dra-Bid Conference	4		4	-																				-								-							775			725
3. Prepare Adenda	18		2	-	6					11	6				2	2			1					1			1								1	1			2,597			2,597
4. Tabulate and Evaluate Bids	12		1	-	4					11	6				1	1			1					1			1								1	1			1,645			1,645
5. Prepare a Recommendation of Award	10		1		2					11	6					1																							1,462			1,462
6. Subconsultant	-									11																														6,212		6,213
7.00Cs	-									11							-																								275	275
Tetele																										-																-

Final Design, Permitting, and Bidding Services Schedule



ATTACHMENT C

TOHO WATER AUTHORITY



CYPRESS LAKE WELLFIELD, RAW WATER MAIN, & WATER TREATMENT PLANT (FINAL DESIGN, PERMITTING, AND BIDDING SERVICES)

Tetra Tech, Inc. Projected Monthly Fee Expenditure Drawdown Schedule



Tetra Tech, Inc. Projected Cumulative Fee Expenditure

Exhibit 6

Phase III Stage 5 Costs

Phase III Stage 5 Costs

Cypress Lake Wellfield, Raw Water Main and Water Treatment Plant Final Design, Permitting, and Bidding and 10-Year Report for		
WUP 49-02052-W with 10% Contingency	\$ 7	7,410,000.00
Permitting Allowance	\$	100,000.00
Budget to prepare an update to the hydraulic model and infrastructure cost estimate found in the Water Wheeling Plan	\$	350,000.00
Total	\$7	7,860,000.00

WATER CO-OPERATIVE OF CENTRAL FLORIDA

Meeting Date: August 5, 2020

Agenda Item No. 4

Attachments:

FY2020 Budget vs. Actuals and Proposed FY2021 Budget

Title:

APPROVAL OF THE DRAFT WATER COOPERATIVE BUDGET FOR FISCAL YEAR 2021

Explanation:

The draft budget for FY2021 contains the same expense line items as contained in this year's (FY2020) budget. The FY2020 and current budget status including year-end projections are included in the attachment. Included within the legal expenses category continues to be a line item for the continued representation of the Water Cooperative in the Central Florida Water Initiative (CFWI) which was approved initially in FY2014. The regulatory development process for the legislatively mandated CFWI regulations is on-going and is expected to continue and accelerate into FY2021.

Revenue for the draft budget is to be provided through a projected reserve carry-over of \$201,964.09 from FY2020 and a \$10,000.00 contribution down from the previous year of \$26,000.00 from each of the four member governments. Reimbursement from Reedy Creek Improvement District (RCID) is estimated at \$30,000.00 based upon 20% of CFWI legal expenses which is estimated and will be collected based upon actual incurred costs. The draft budget provides for an estimated ending year reserve of \$98,958.42. The only funding approval that will be necessary from each member government to fund the proposed draft budget is the \$10,000 contribution.

In accordance with the Interlocal agreement establishing the Water Cooperative, the budget process requires the submission of a proposed budget to the member governments a minimum of 30 days in advance of adopting the annual budget. The draft budget document should be approved by the Board of Supervisors for submission to the member governments in advance of final approval. After the required comment period for the governments has passed, the Board would be able to formally approve the budget with any modifications suggested by any of the member governments at the October 7, 2019 Board meeting.

Costs:

Draft Budget, no immediate cost impacts.

Recommendation:

Staff recommends approval of the draft budget for Fiscal Year 2021 as presented for submission to the member governments for comment.

Initials: NCD

Water Cooperative of Central Florida FY2020 Budget vs. Actuals and Proposed FY2021 Budget

-	FY2020 Budget	Actuals through June 2020	Estimate Through Year-End	Proposed Budget FY2021
Income Annual Working Capital Contributions				
Reserves Carry-over	\$86,039.22	\$155,392.18	\$155,392.18	\$201,964.09
Reimbursement from Reedy Creek Improvement District*	\$27,000.00	\$8,648.78	** \$11,528.82	\$30,000.00
Toho Water Authority General Administration Cypress Lake Project Management	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$10,000.00 \$0.00
Orange County General Administration Cypress Lake Project Management	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$10,000.00 \$0.00
City of St. Cloud General Administration Cypress Lake Project Management	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$10,000.00 \$0.00
Polk County General Administration Cypress Lake Project Management	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$26,000.00 \$0.00	\$10,000.00 \$0.00
Miscellaneous Income				
Reedy Creek Improvement District Cypress Lake Project Management	\$0.00	\$0.00	\$0.00	\$0.00
Interest on SunTrust Account	\$0.00	\$0.00	\$0.00	\$0.00
TOTAL	\$217,039.22	\$268,040.96	\$270,921.00	\$271,964.09
Expenses				
Water Supply Project Management and Administration Reimbursement to Toho Water Authority	\$0.00	\$0.00	\$0.00	\$0.00
Advertising Meetings	\$1,000.00	\$3,430.67	\$5,080.67	\$5,080.67
Legal Expense Meetings (4 regular & 1 special) Central Florida Water Initiative Miscellaneous Total Legal	\$10,000.00 \$135,000.00 \$1,000.00 \$146,000.00	\$2,661.00 \$40,806.40 \$43,467.40	\$3,547.11 \$54,394.93 	\$10,000.00 \$150,000.00 \$1,000.00 \$161,000.00
Accounting (Annual Report)	\$5,500.00	\$5,750.00	\$5,750.00	\$5,750.00
Annual Filings	\$200.00	\$175.00	\$175.00	\$175.00
Board Expenses	\$1,000.00	\$9.20	\$9.20	\$1,000.00
TOTAL	\$153,700.00	\$52,832.27	\$68,956.91	\$173,005.67
NET RESERVES	\$63,339.22	\$215,208.69	\$201,964.09	\$98,958.42

* RCID reimbursement based upon 20% of CFWI legal expenses ** this is a receivable; payment has not yet been received