REGULAR BOARD MEETING CANYON REGIONAL WATER AUTHORITY

Monday September 11, 2023, at 6:00 PM 850 Lakeside Pass, New Braunfels, TX 78130

This meeting is to be conducted in person only at the Canyon Regional Offices located at 850 Lakeside Pass, New Braunfels, Texas

This Notice is posted pursuant to the Texas Open Meeting Act (Chapter 551, Texas Government Code). The Board of Trustees of Canyon Regional Water Authority (CRWA) will hold a meeting in person at 6:00 P.M., Monday September 11, 2023, in the Board Room. The public may observe this meeting in person. Additional information can be obtained by calling: (830) 609-0543. The CRWA Board of Trustees may consider, discuss, and take action on any of the matters identified below.

- Item 1 CALL TO ORDER
- Item 2 BOARD ROLL CALL
- Item 3 Invocation and Pledge of Allegiance
- Item 4 OATH AND STATEMENT OF OFFICE OF NEW TRUSTEE

Item 5 PUBLIC COMMENTS

- A. Comments on non-agenda items no discussion from the Board, 3-minute time limit.
- B. Comments on specific items on this agenda discussion from/with the Board may be allowed; 3-minute time limit per citizen. Time may not be "shared or ceded" to another citizen.

Members of the public wishing to make public comment during the meeting must register by emailing hdiaz@crwa.com prior to the meeting. Written comments may also be submitted. If you wish to speak, please state your name.

Item 6 CONSENT ITEMS

All items listed below are considered to be routine and non-controversial by the Board and will be considered by one motion. There will be no separate discussion of these items unless a Board member so requests, in which case the item will be removed from the consent agenda and will be considered as part of the order of business.

- A. CRWA 23-09-050 Adopt Resolution 23-09-050 approval of Board of Trustees meeting minutes of August 14, 2023
- B. CRWA 23-09-051 Adopt Resolution 23-09-051 approval of July 2023 Financial Report and Check Register Report until audited

Item 7 Presentations/Discussions

- A. Hays Caldwell Wheeling Agreement Notice
- B. County Line Pipeline Project Notice and Demand Letter
- C. October 9 Board Meeting (Columbus Day)

Item 8 CRWA STAFF REPORTS

(Updates from written reports by staff, legal counsel, and others)

- A. Drought report
- B. Water treatment, Storage, and Transmission operations ~ Staff
 - Lake Dunlap WTP:
 - Production
 - Taste and Odor
 - PFAS test results
 - SOQs for Engineering Design Services
 - Hays Caldwell WTP:
 - Production
 - Pall mobile membrane filtration
 - Wells Ranch WTP:
 - Production
 - PFAS test results
 - Well rehabilitation and pump repairs
- C. Wells Ranch III Project ~ Staff
 - o Draft Water Supply and Treatment Contract
 - Groundwater leasing and permitting
- D. South Texas Regional Water Planning Group Region L ~ Staff
- E. Groundwater Districts of Guadalupe and Gonzales Counties ~ Staff
- F. Legal and legislative matters ~ Legal Counsel and Staff

Item 9 CRWA COMMITTEE REPORTS

Budget Committee: Comments and Update on Draft FY 2024 Budget ~ Committee Chairwoman

Policy and Legislative Committee: Comments and Updates on CRWA Policies ~ Committee Chairman

Construction Committee and Reports on Matters Related to CRWA Construction/Infrastructure Projects:

- A. Project Status Comments and Updates on Committee Activity ~ Committee Chairman
- B. Project updates from and written reports by engineering consultants, staff, and others:
 - o Alliance Regional Water Authority participation ~ Alliance
 - o Geographic Information System (GIS) ~ Staff and UEG
 - TxDOT/CRWA IH-10 (Santa Clara & Zuehl) Pipeline Encasement ~ Staff and UEG
 - TxDOT/CRWA FM 1518 Transmission Line Project ~ Staff and UEG
 - CRWA Standards and Specifications ~ Staff and UEG
 - TxDOT/Hays County/Crystal Clear/CRWA FM 621/CR 266 Water Line Relocation Project ~ Staff
 - CRWA Master Plan update ~ Staff
 - Wells Ranch III WTP Optimization and Conceptual Pipeline Designs ~ Trihydro Engineering
 - Hays Caldwell WTP Facility Improvements:
 - Membrane filter replacement ~ Staff
 - Exterior to Filter Building status report on approvals, funding, and construction ~ Ardurra

Item 10 GENERAL BUSINESS

- A. <u>CRWA 23-09-052 Concerning approval of FY 2024 Budget (*CRWA Board Treasurer and Staff*) Adopt Resolution 23-09-52 approval of CRWA FY 2024 Budget</u>
- B. <u>CRWA 23-09-053 Concerning approval of Engineering Services Agreement with Ardurra Group, Inc.</u> (*CRWA Staff*)

Adopt Resolution 23-09-53 approval of a partial engineering scope of work with Ardurra Group, Inc. ("Ardurra") for preliminary design services of the Hays Caldwell WTP Membrane Improvement Project for a cost not to exceed \$110,528.00 and approve a corresponding reimbursement resolution.

- C. <u>CRWA 23-09-054 Concerning approval of a Contract with RAM Utilities, LLC for the FM 1518 Transmission Line Relocation Project (*CRWA Staff*)

 Adopt Resolution 23-09-54 approval of a construction contract with RAM Utilities, LLC for the</u>
 - Adopt Resolution 23-09-54 approval of a construction contract with RAM Utilities, LLC for the TxDOT/CRWA FM 1518 transmission line relocation project at a cost not to exceed \$731,420.79.
- D. <u>CRWA 23-09-055 Concerning approval of a Contract with NewGen Strategies & Solutions</u> (<u>CRWA Staff</u>)

Adopt Resolution 23-09-55 approval of a contract with NewGen Strategies & Solutions to develop an analysis of fixed cost blending for Lake Dunlap and Wells Ranch Operating Expenses at a cost not to exceed \$17,500.00.

E. <u>CRWA 23-09-056 Concerning approval of additional Life Insurance Benefits through TCDRS</u> (*CRWA Staff*)

Adopt Resolution 23-09-56 approval of additional life insurance benefits for CRWA employees through TCDRS at a rate of 0.17% of wages. This cost is included in the FY 2024 Budget for a total of \$3,413.00.

F. <u>CRWA 23-09-057 Concerning a New Rate Methodology for Hays Caldwell Participating Members</u> (*Trustee Doris Steubing*)

Adopt Resolution 23-09-57 to take appropriate action regarding the Amended and Restated Regional (Hays/Caldwell Counties Area) Water Supply and Treatment Contract, made effective February 9, 2021, including but not limited to, directing CRWA staff to develop a new rate methodology for Participating Members who exceed their annual allotment of water under the Contract.

Item 11 EXECUTIVE SESSION

The Board of Trustees will meet in a closed session to discuss the following items pursuant to Chapter 551 of the Texas Government Code, including, where appropriate, Sections 551.071, 551.072, 551.074, 551.076, 551.086, 551.089, and 418.183(f) of the Texas Government Code.

A. Meet and consult with Attorney in private as permitted by Section 551.071 of the Texas Government Code to seek advice upon and discuss: *No items*.

Item 12 RETURN TO OPEN MEETING

The Board may consider, deliberate, and take action on the items discussed in Executive Session.

Item 13 FUTURE BOARD MEMBER AGENDA ITEMS

Item 14 Adjourn the meeting

NOTICE: The Board of Trustees may meet in a closed session to discuss any item listed above pursuant to Chapter 551 of the Texas Government Code, including, where appropriate, sections 551.071, 551.072, 551.074, 551.076, 551.086, 551.089, and 418.183(f) of the Texas Government Code. All deliberations and formal action will occur in open session.

September 1, 2023

County Line Special Utility District Attn: Toni Brewer, President 8870 Camino Real Uhland, Texas 78640

Dear President Brewer,

I, Doug Schnautz, hereby resign from my position as the County Line Special Utility District's appointee to the Canyon Regional Water Authority Board of Trustees, effective immediately.

Doug Schnautz

cc:

Humberto Ramos, General Manager, County Line Special Utility District David Klein, General Counsel, County Line Special Utility District Danielle Lam, General Counsel, County Line Special Utility District

RESOLUTION OF THE GOVERNING BODY OF

COUNTY LINE SPECIAL UTILITY DISTRICT

APPOINTING TO CANYON REGIONAL WATER AUTHORITY ONE MEMBER TO THE BOARD OF TRUSTEES FOR A 2-YEAR TERM OF OFFICE.

ADOPTED August 21, 2023

RESOLVED, that the Governing Body of **County Line Special Utility District** has replaced:

Doug Schnautz with Humberto Ramos to serve as their representative to the Board of Trustees of Canyon Regional Water Authority for the remainder of the 2-year term of office that expires in May 2024, effective immediately.

RESOLVED, FURTHER, that Humberto Ramos is authorized to represent, and act on behalf of, in the best interest of above said entity in the process of maintaining and conducting the business of the Canyon Regional Water Authority, and to cast its vote on all issues related to the Canyon Regional Water Authority.

* * * * *

CERTIFICATE OF SECRETARY

I, Joe Howe, do hereby certify that I am the Secretary of the above said entity and that the above and foregoing is a true, full and correct copy of the resolution duly adopted by the Members of the Governing Body of the above said entity at its meeting held on August 21, 2023, and entered into the Minutes of said entity; that the meeting was duly and regularly held in accordance with the Bylaws and or laws governing the said entity; and that such resolution has not been rescinded or modified.

To certify which, witness my hand this day August 21, 2023

oe Howe

Secretary, Board of Directors

County Line Special Utility District

CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------|---------|---------------|
| | | |

09/11/2023

CONSENT AGENDA ITEM

CRWA 23-09-050

BOARD OF TRUSTEES MEETING MINUTES OF AUGUST 14, 2023

INITIATED BY

JOHN KAUFMAN / FRAN POWERS

STAFF RECOMMENDATION

Approve the Minutes of the Regular Board Meeting of the Board of Trustees held on August 14, 2023, as amended, or not amended.

BACKGROUND INFORMATION

The minutes of the meeting are attached.

FINANCIAL IMPACT

None

MOTION

Motion to approve the following resolution.

AL for CM

RESOLUTION No. 23-09-050

BE π RESOLVED that the Minutes of the Regular Meeting of the Board of Trustees held on August 14, 2023, as amended, or not amended, are approved.

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|--|------|---------------|--------------------|------------|------------------------|
| | Ayes | Nays | Abstained | Absent | |
| | | | Approv | ed by: | Timothy D. Fousse, CPM |
| | | | | | President |
| Certified and attested by: | | | | | |
| PER STATE OF THE S | | Doris Ste | 30-70 - C 60-0 - C | | |
| | | Secretary | / | | |

MINUTES REGULAR BOARD MEETING CANYON REGIONAL WATER AUTHORITY BOARD OF TRUSTEES

Regular meeting:

The Canyon Regional Water Authority (CRWA) Board of Trustees met for a regular meeting in person on Monday, August 14, 2023, at 6:00 p.m.

The following individuals attended the meeting:

| Board of | Trustees: | CRW | A Staff: | | gers and Others: |
|--|---|---|---|--|---|
| Timothy Fousse Ted Gibbs Martin Poore Gary Gilbert Doug Schnautz Theresa Scheel Donald Bosworth Randy Schwenn Doris Steubing | Brandon Rohan Marc Gilbert Al Suarez Steve Cooper Christina Miller Steve Fonville James Forssell Mabel Vaughn Clint Ellis | John Kaufman Adam Telfer David McMullen | Hanna Diaz Joan Wilkinson Fran Powers | Pat Allen Louis Rosenberg Trey Wilson Byron Sanderfer | David Kneuper David Rabago Daniel Smith Humberto Ramos |

Item 1 CALL TO ORDER

» President Timothy Fousse opened the meeting at approximately 6:02 p.m.

Item 2 BOARD ROLL CALL

» Eighteen (18) Board members were present.

Item 3 INVOCATION AND PLEDGE OF ALLEGIANCE

Item 4 PUBLIC COMMENTS

- A. Comments on non-agenda items no discussion from the Board, 3-minute time limit.
- B. Comments on specific items on this agenda discussion from/with the Board may be allowed; 3-minute time limit per citizen. Time may not be "shared or ceded" to another citizen.

Members of the public wishing to make public comment during the meeting must register by emailing fran@crwa.com prior to the meeting. Written comments may also be submitted. If you wish to speak, please state your name.

Humberto Ramos spoke during the public comments and stated, "I wanted to take this time to thank the Board of Canyon Regional for allowing me to serve CRWA in varying capacities for the last 18 years, six years as a participant and 12 years as an employee, so thank you CRWA. As many of you know I am the new General Manager for County Line SUD. I have come before you to ask you to not lose sight of the unspoken principles that made this organization successful that is inclusion of all. I am glad Converse is here. Inclusion of all board members, all general managers, and all staff of the entities that form CRWA. Let me remind you that no matter how large the entity is, no matter how much water they are contracted for, no voice is louder than the others, and no favoritism should exist. All should be treated equal and all voices matter. Hence the principle of inclusion. Being that may, I formally request Item 9D be tabled for the simple reason that County Line SUD has not had the opportunity to participate in the discussions. There was a meeting held on August 8 which County Line and the City of San Marcos were not a part of. This action item that is presented in the Board packet today is the beginning steps to drive an engineered solution to the membrane issue at Hays Caldwell. Estimation of the construction of the engineered solution is between 8-10 million dollars of which County Line represents 29.27% of the total (2.4-3 million dollars). Therefore, I ask again this item be tabled. Keeping with the principle of inclusion of all, I further ask that when you go into

executive session to address Item 10B you do so with understanding of what the employment contract with John Kaufman states. If you don't have that contract, I ask that you get the contract as soon as possible. The contract states that the annual evaluation will be conducted by the Board of CRWA, not a subset of the Board, but the entire Board. What has transpired thus far is the evaluation of Executive Committee for John Kaufman. Any action regarding an annual evaluation thus far once again excludes County Line and many others of this Board. Not only to mention that John Kaufman has a two-year contract with CRWA and 16 months of the two-year contract have already been expended without an evaluation from this Board. All seated today here have a vested interest in evaluating the General Manger. I would be remised if I did not mention my Board member, Tracy Scheel, has asked on three occasions about the evaluation of Mr. Kaufman and she was not heard. Furthermore, I ask that during the evaluation you include and review all correspondences and actions thus far that address the General Manager such as resolutions by individual entities that have a vote of no confidence, emails of no confidence sent to the General Manager, complaints about the General Manager, and work done by Donald Bosworth that shows four entities have an understanding or opinion that there is a lack of leadership here. I ask that you review emails that show defiance by Mr. Kaufman. I also ask that you remember when Mr. Kaufman was disrespectful and unprofessional to two Board members. Finally, I ask that you look at any other correspondences that may be out there with regards to Mr. Kaufman's tenure here at CRWA. This practice of exclusion in place of inclusion, I'm afraid will continue to divide the organization, degrade the relationships, and ultimately destroy this organization which we all built. Thank you for our time."

Item 5 Presentations/Discussions

None

Item 6 CONSENT ITEMS

All items listed below are considered to be routine and non-controversial by the Board and will be considered by one motion. There will be no separate discussion of these items unless a Board member so requests, in which case the item will be removed from the consent agenda and will be considered as part of the order of business.

A. CRWA 23-08-044

Adopt Resolution 23-08-044 approval of Board of Trustees meeting minutes of July 10, 2023

B. CRWA 23-08-045

Adopt Resolution 23-08-045 approval of June 2023 Financial Report and Check Register Report until audited

- » Tracy Scheel made a motion to approve Resolution 23-08-044 and Resolution 23-08-045.
- » Vice President Brandon Rohan seconded the motion.
- » President Fousse called for a vote. The motion passed with 18 aye votes.

Item 7 CRWA STAFF REPORTS

(Updates from written reports by staff, legal counsel, and others)

- A. Water treatment, Storage, and Transmission operations ~ Staff
 - Lake Dunlap WTP:
 - Production
 - Taste and Odor
 - RFQ for Engineering Design Services
 - Hays Caldwell WTP:
 - Production
 - Pall mobile membrane filtration
 - Engineering Design Services Contract
 - PFAS test results
 - Wells Ranch WTP:
 - Production
 - Well rehabilitation and pump repairs

- B. Wells Ranch III Project ~ Staff
 - o Draft Water Supply and Treatment Contract
 - o Groundwater leasing and permitting
- C. South Texas Regional Water Planning Group Region L ~ Staff
- D. Groundwater Districts of Guadalupe and Gonzales counties ~ Staff
- E. Legal and legislative matters ~ Legal Counsel and Staff
 - » Water Treatment, Storage, and Transmission Operations ~ The staff did not add new information to the written report.
 - » Lake Dunlap ~ TCEQ will be collecting water samples at Lake Dunlap in the month of August. Steve Cooper noted that the report shows the PFAS limits exceeded the standard and asked for the plan to get those back into the required limits or answer the potential repercussions. John Kaufman clarified that the sample of water taken that is being referenced is from the Hays Caldwell WTP. Mr. Kaufman stated there are no standards for those 2 parameters, there are listed PFAS parameters for which will be regulated but they are not currently being regulated, they are only for sampling and reporting at this point.
 - » Havs Caldwell WTP ~ The staff did not add new information to the written report.
 - » Wells Ranch WTP ~ The staff did not add new information to the written report.
 - » Wells Ranch III Project ~ John Kaufman stated that they attended a workshop with Gonzales County. They expect next month to begin the hearing process on their application to increase production on Well 14 by 920 AF a year.
 - » South Texas Regional Water Planning Group Region L ~ There is no update.
 - » Groundwater Districts of Guadalupe and Gonzales Counties ~ Refer to previous comment on meeting with Gonzales County. Mr. Kaufman stated he attended a meeting last week with Guadalupe County where he provided them with a brief status report.

Item 8 CRWA COMMITTEE REPORTS 19:08

Budget Committee: Comments and Update on Draft FY 2024 Budget ~ Committee Chairwoman

» There will be a Budget Committee meeting on August 21, 2023, at 9:00 a.m.

Policy and Legislative Committee: Comments and Updates on CRWA Policies ~ Committee Chairman

Ted Gibbs stated that the personnel policy is underway and there will be a meeting on August 15, 2023, at 9:00 a.m. to discuss.

Construction Committee and Reports on Matters Related to CRWA Construction/Infrastructure Projects:

- » Project Status Comments and Updates on Committee Activity ~ Committee Chairman
- » Vice President Rohan gave the report:
 - → TxDOT/CRWA IH-10 (Santa Clara & Zuehl) ~ UEG believes construction will begin next month.
 - <u>TxDOT/CRWA FM 1518 Transmission Line Project</u> ~ UEG is hoping for a September recommendation for a bid.
 - * TxDOT/ Hays County/ Crystal Clear/ CRWA FM 621/ CR 266 Water Line Relocation Project ~ Most of the construction is complete. There are still some Crystal Clear site installations and some tie ins that have to occur.
 - GIS ~ The staff member who was working on the GIS data acquisition has been moved into a
 new role and UEG is working on pricing and looking at how to come up with the rest of the
 data acquisition.
 - Utility Engineering Group (UEG) continues to work on Standards and Specifications. They are now 3 weeks into the initial 12-week schedule.
 - CRWA staff have received the statements and qualifications for engineering services at Lake Dunlap. CRWA staff have also received a number of large firms who have responded to the

RFQ.

- The Pall unit at Hays Caldwell has been working better over the last week.
- Ardurra reported a revised opinion of probable cost (OPC) for the Hays Caldwell project on the interior, the revised OPC came closer to 27 million dollars. Vice President Rohan said it may benefit the Hays Caldwell group to get together to reevaluate that project to see if there are things that can be eliminated to bring the cost back to a more reasonable number.
- Ardurra was selected by the committee to do the work and is working on a scope for replacing the membranes at Hays Caldwell. The scope has not been finalized.
- » Project updates from and written reports by engineering consultants, staff, and others:
 - Alliance Regional Water Authority participation ~ Alliance
 - Geographic Information System (GIS) ~ Staff and UEG
 - TxDOT/CRWA IH-10 (Santa Clara & Zuehl) Pipeline Encasement ~ Staff and UEG
 - TxDOT/CRWA FM 1518 Transmission Line Project ~ Staff and UEG
 - CRWA Standards and Specifications ~ Staff and UEG
 - TxDOT/Hays County/Crystal Clear/CRWA FM 621/CR 266 Water Line Relocation Project ~ Staff
 - CRWA Master Plan update ~ Staff
 - Wells Ranch III WTP Optimization and Conceptual Pipeline Designs ~ Trihydro Engineering
 - Hays Caldwell WTP Facility Improvements:
 - Membrane filter replacement ~ Staff
 - Exterior to Filter Building status report on approvals, funding, and construction ~ Ardurra
- » Alliance Regional Water Authority participation ~ Graham Moore with Alliance was not able to attend but left his update in the packet.
- » Geographic Information System (GIS) ~ David Kneuper of UEG did not add new information to his report.
- » TxDOT/CRWA IH-10 (Santa Clara & Zuehl) Pipeline Encasement ~ Mr. Kneuper did not add new information to his report.
- » TxDOT/CRWA FM 1518 Transmission Line Project ~ Mr. Kneuper did not add new information to his report.
- » CRWA Standards and Specifications ~ Mr. Kneuper added that they are finalizing the draft of standard details and he anticipates those will come to staff by August 18 for initial review.
- » TxDOT/ Hays County/Crystal Clear/CRWA FM 621/CR 266 Water Line Relocation Project ~ David McMullen reported they should be completing tie ins around the beginning of September.
- » CRWA Master Plan Update ~ Ted Gibbs asked for a status update. David Rabago stated they are planning to have it completed by the end of August. Mr. Kaufman stated that the information they asked to be included in the report was the water usage information from last year, which was the highest usage year on record.
- » Wells Ranch III WTP Optimization and Conceptual Pipeline Designs ~ CRWA staff did not add new information to the written report.
- » Hays Caldwell WTP Facility Improvements:
 - Membrane filter replacement ~ Mr. Kaufman said that they met last Wednesday with members from the selection committee to review internally on a preliminary basis a scope of work that was presented to CRWA from Ardurra. No decisions were made.
 - * Exterior to Filter Building status report on approvals, funding, and construction ~ James Forssell inquired about possible grants for funding the project. Byron Sanderfer stated they are looking at several different fund or grant options. Byron Sanderfer with Ardurra did not add new information to the written report.

Item 9 GENERAL BUSINESS

A. <u>Discussion Concerning Proposed Revisions to CRWA Bylaws</u> No action.

» Mr. Gibbs spoke and stated that there was a step skipped in getting it up for approval. The step that was skipped was that the Board Secretary did not send a copy, in written form, of the document to all Board members. It was sent out 30 days prior to the Board members, however, it was in an email and that does not qualify for a written response. Mr. Gibbs provided background for the review of the Bylaws. Mr. Gibbs said the plan is for the CRWA secretary to send notice to all the Board of Trustees with a copy of the document, given more than 7 days' notice to allow everyone to review it, request any changes, at the next meeting it will be on the agenda for a review and vote.

Tracy Scheel asked about changes regarding the evaluation of the General Manager.

- » Mr. Gibbs stated the process for evaluating the General Manager will be taken out of the Bylaws and placed in the Personnel Policy.
- Martin Poore asked why an email that was sent out with a copy of the Bylaws was not accepted as a written copy; it was stated that it was because it was sent by a CRWA staff member and not the CRWA secretary.

Doris Steubing asked for a review of the Treasurers duties.

B. <u>CRWA 23-08-046 Concerning CRWA Contribution to Employee Spouse and Dependent Health Insurance Costs</u>

Adopt Resolution 23-08-046 approval of CRWA contribution of 50% towards the cost of employee spouse and dependent health insurance costs in FY 2024.

Joan Wilkinson spoke about the current employee health insurance and the rate increase for current plans by 49%. For an employee that ensures their family, it will increase to over \$2,000 a month. Currently, CRWA does not pay for dependent cost. Based upon the current budget, it would cost CRWA in the upcoming FY 2024 budget \$127,000. This number is estimated to be for 11 employees, currently there are only 6-7 employees that have dependent coverage.

» Mr. Poore made a motion to approve Resolution 23-08-046.

» Randy Schwenn seconded the motion.

- » Mrs. Sheel asked if the competitors offer anything similar to their employees. It was spoken that other companies do provide support for dependent cost.
- » President Fousse called for a vote. The motion passed with 18 aye votes.
- C. <u>CRWA 23-08-047 Concerning Engineering Design Services for the County Line SUD Transmission Line</u>
 Adopt Resolution 23-08-047 approval of an Engineering Service Order with Gallegos Engineering, Inc. for alignment determination and related services concerning a proposed transmission line to the County Line SUD Point of Delivery at a cost not to exceed \$25,000.00.

» Vice President Rohan stated the Construction Committee decided not to make a recommendation to the full Board because they did not have a funding mechanism for it. Mr. Rohan asked how County Line would like to proceed with this item.

Mrs. Sheel stated they would like to proceed.

- » Vice President Rohan stated this is not the full scope. This is looking at the alignment for now. Staff still need to have a discussion with the Hays Caldwell group on how this gets funded and who pays for it.
- » Mrs. Scheel made a motion to approve Resolution 23-08-047.

» Donald Bosworth seconded the motion.

- » President Fousse called for a vote. There were 17 ayes and 1 nay. The motion passed.
- D. <u>CRWA 23-08-048 Concerning Design Services for the HCWTP Nanofiltration Improvement Project</u>
 Adopt Resolution 23-08-048 approval of an Engineering Service Order with Ardurra for initial design services pertaining to the Hays Caldwell WTP Nanofiltration Improvement Project at a cost not to exceed \$25,000.

» Vice President Rohan stated the Construction Committee did not move forward with this item since it was not complete. Vice President Rohan asked that the entities that are participating in this let the

Board know their thoughts and how they would like to move forward.

- » Mr. Poore made a motion to approve Resolution 23-08-048.
- » James Forsell seconded the motion.
- » President Fousse clarified that expensed funds will be reimbursed to CRWA through a

reimbursement resolution.

- » Tracy Sheel deferred her comments to her General Manager, Mr. Ramos.
- Mr. Ramos stated, "I have heard words about urgency and heard words of importance, but the reality is that there really is no urgency at this time. I do not see how taking action today is going to cause failure or any more delay than what has occurred right now. We currently have a Pall membrane filter that has been in operation for six months and has not produced the water that we have needed thus far. All I asked is for inclusion. I appreciate that Lavernia made the motion for this topic, but again, I think what is at hand is the Hays Caldwell entities with regards to what is happening here. Not to forget the fact that the City of San Marcos is a part of this project, and they were not even consulted on this. You heard the General Manager state it is the beginning of a task order for a project that is going to be between 10-12 million dollars. I think if we have time, we sit and talk about the scope and provide comments to the scope. I am not sure if Martindale was a part of the meeting. My understanding the only ones a part of that meeting were Maxwell. The General Manager at Maxwell concluded and sent an email to Mr. Kaufman that he advises this item be tabled, but Mr. Kaufman did not inform you of that. Tabling is not going to cause any more of a hurt or delay. It is what it is right now. We are paying for a Pall membrane that is \$480,000 a year and it is not working the way we said it was going to work. All I ask for is some time for the entities, myself (County Line) included and Maxwell, to look and see if there are any corrections or additions, we can make in regard to this. I had corrections and additions which I was never given the opportunity too. You are asking for County Line to pay 29.275%, which is anywhere from 2-3 million dollars at the end. I think we should have a say. I do not see any hurt with putting this off for another meeting. Again, there is not urgency. I would take that back as far as urgency, these filters have been failing. We have a system in place, the Pall filters, that should be working. The failure is that the Pall system is not working. Instead of us moving forward without inclusion of our position and our point which I feel is valuable here for this effort. We want a say at the table. We want to say how the money is spent. We want a say on how it derives and moves forward because we are taking a large chunk. We and the City of San Marcos are making a large chunk of this, 29.7% they have and we have 29.2%. Again, I don't see the urgency and another meeting will not hurt anybody. I ask and have asked many times, that when we start projects, all the entities be involved to make these discussions so we can move together. Ultimately, you are going to come to us and ask us for bonds. We are having heartache right now. We move forward together or we don't move forward at all. All I am saying right now is that we are not ready to move forward and a delay in one month is not going to cause heartbreak, it is not going to cause the system to fail, and it is not going to cause any more than what is happening right now. We should be concentrating our efforts on the Pall system why is not working and we paid for a product that is not delivering what it said it was supposed to deliver. That is my concern."
- » President Fousse stated that it is apparent that the users of this system are not in agreement. The users need to get together and decide what they want to do.
- » Mabel Vaughn asked to clarify if the Pall membrane was not working. Mr. Kaufman stated that Mr. Ramos' previous statement about the Pall membrane not working was a false statement.
- » Mr. McMullen commented on the Pall membrane trailer's productivity. He stated that there have been no issues with the trailer for the past few weeks. The water quality determines how much water the trailer will produce. The quality of the water coming down the river right now is terrible; this is affecting the production of the trailer. To meet productions, they cannot run one of the old Koch filters and the Pall trailer. They are producing more than the plant was designed for, so they must run 2 of the Koch filters. In doing so, if the Koch filters are turned down too much they do not work. They have turned them up a little more to even them out. The Pall unit is running first but supplementing the Koch system with the Pall unit.
- » President Fousse called for a vote. There were 14 nays and 4 ayes. The motion failed.
- E. CRWA 23-08-049 Concerning Grant Application Services
 - Adopt Resolution 23-08-049 approval of an Engineering Service Order with Ardurra Group, Inc. to provide grant application services in support of the HCWTP Improvements Project at a cost not to exceed \$46,186.00.
 - » Mrs. Vaughn made a motion to approve Resolution 23-08-049.

- » Mr. Fonville seconded the motion.
- » President Fousse called for a vote. The motion passed with 18 ayes.

Item 10 EXECUTIVE SESSION

The Board of Trustees will meet in a closed session to discuss the following items pursuant to Chapter 551 of the Texas Government Code, including, where appropriate, Sections 551.071, 551.072, 551.074, 551.076, 551.086, 551.089, and 418.183(f) of the Texas Government Code.

- A. Meet and consult with Attorney in private as permitted by Section 551.071(1) of the Texas Government Code to seek advice upon and discuss the status of contemplated litigation, claims, and controversies related to:
 - Status of claim asserted against Trihydro Corporation related to engineering design services for the Wells Ranch Phase 2 Generator Installation Project;
 - Notice from Shannon Monk, Inc. concerning allegation of wrongful retention of retainage allegedly due to Loftin Equipment Co. under Procurement Contract for Wells Ranch Phase 2 Generator Installation Project; and
 - Shannon Monk, Inc. pay applications 12 and 13 submitted in connection with the Construction Contract for Wells Ranch Phase 2 Generator Installation Project.
 - B. Meet in private as permitted by Section 551.074 of the Texas Government Code to deliberate the employment, duties, and process for evaluating the General Manager, and a succession plan for the General Manager position.
 - The Board of Trustees entered Executive Session at approximately 7:35 p.m. to discuss agenda item 10A.

Item 11 RETURN TO OPEN MEETING

The Board may consider, deliberate, and take action on the items discussed in the Executive Session.

- » The Board of Trustees returned from Executive Session at approximately 9:12 p.m.
- » Mr. Poore made a motion in reference to Item 10A to require Trihydro to come to the table and agree to mediation by August 24, 2023, and that subsequently they begin mediation proceedings by October 15, 2023. If there is a failure to meet those dates, then they differ to council on moving forward with an actual lawsuit.
- » Mr. Gibbs seconded the motion.
- » President Fousse called for a vote. The motion passed with 18 aye votes.
- » Vice President Rohan made a motion on item 10A to release the sum of pay releases 12 and 13 with holding back the \$19,832.40 of miscellaneous items that staff needs to confer with Shannon Monk on her documentation and with an additional change order for any credits for deducts.
- » This motion was seconded by Ted Gibbs.
- » President Fousse called for a vote. The motion passed with 18 ayes.
- » Tracy Sheel made a motion in reference to item 10B. The motion is to direct the General Manager to seek funding in the 2024 budget for an Assistant General Manager position.
- » Mr. Gibbs seconded the motion.
- » President Fousse called for a vote. The motion passed with 18 ayes.

Item 12 FUTURE BOARD MEMBER AGENDA ITEMS

» Look into changing the auditors.

Item 13 Adjourn the meeting

- » Martin Poore made a motion to adjourn the meeting.
- » Christina Miller seconded the motion.
- » President Fousse adjourned the meeting at approximately 9:16 p.m.

| _ | | | | | |
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| | | | | | |
| 1 | NOTICE: The Board of Trustees may n Texas Government Code, including, wh 418.183(f) of the Texas Government Co | neet in a closed session to ere appropriate, sections de. All deliberations and | o discuss any item listed a 551.071, 551.072, 551.0 formal action will occur in | bove pursuant to Chapt 74, 551.076, 551.086, open session. | er 551 of the 551.089, and |
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CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------------|--|----------------|
| 09/11/2023 | FINANCIAL REPORT AND CHECK REGISTER REPORT | CRWA 23-09-051 |

INITIATED BY

JOAN WILKINSON

STAFF RECOMMENDATION

Approve the July 2023 Financial Report and Check Register Report until audited.

BACKGROUND INFORMATION

The July 2023 Financial Report and Check Register Report are attached.

FINANCIAL IMPACT

None

MOTION

Motion to approve the following resolution.

AT for GM

RESOLUTION No. 23-09-051

 $\mbox{Be\,{\sc it}}$ RESOLVED that the July 2023 Financial Report and Check Register Report of Canyon Regional Water Authority are approved until audited.

| | Adop | oted this 11 th da | y of Septer | mber 2023 | |
|----------------------------|------|-------------------------------|-------------|-----------|-------------------------------------|
| | Ayes | Nays Ab | stained | Absent | |
| | | | Approve | ed by: | Timothy D. Fousse, CPM President |
| Certified and attested by: | | | | | |
| | | Doris Steubi Secretary | ng | | |

CANYON REGIONAL WATER AUTHORITY Balance Sheet

| | Jul 31, 23 |
|---|--------------------------|
| ASSETS | |
| Current Assets | |
| Checking/Savings | |
| 1001 · First United Bank | 1 026 177 12 |
| 1006 · First United Checking #5207 | 1,026,177.43 2,104.79 |
| 1010 · First United Special #7162 | 1,108,187.03 |
| 1015 · Money Market #2160 | 1,145,838.20 |
| 1017 · HC SM Capacity Buy-In #6744 | .,,,, |
| Total 1001 · First United Bank | 3,282,307.45 |
| 1100 · First United Bank (Res) | 12.2227 |
| 1105 · LD/MC Series 2016, #3017 | 1,045,738.01 |
| 1107 · HC 2005 #3603 | 2,228.83 |
| 1111 · HC Series 2017 #6074 | 63,496.40 |
| 1109 · HC Series 2021 #6663 | 164,771.48 |
| 1113 · HC Counties 2021 Ref #0636 | 42,686.13 |
| 1132 · Wells Ranch Series 2015, #6031 | 980,157.21 |
| 1133 · Wells Ranch Series 2016, #3009 | 790,536.43 |
| 1134 · Wells Ranch Series 2021 #0911 | 295,124.80 |
| 1140 · L/D Membrane Fund #5701 | 1,139,397.50 |
| 1140-01 · LD Membr-Nanostone Escrow #2545 | 192,955.30 |
| 1142 · H/C Membrane Fund #5693 | 413,098.39 |
| 1145 · Repair & Replacement Fund | 4,032,338.35 |
| Total 1100 · First United Bank (Res) | 9,162,528.83 |
| 1120 · Logic | |
| 1121 · Logic, General Funds | 1,189,184.23 |
| 1127 · Wells Ranch, Construction #027 | 366,645.99 |
| 1158 - HC Construction | 16,933,263.63 |
| Total 1120 · Logic | 18,489,093.85 |
| 1160 · BOKF, NA, Austin,WR Series 2015 | 124,420.65 |
| 1161 · BOKF, NA, Austin, HC Series 2017 | 4,107,805.57 |
| Total Checking/Savings | 35,166,156.35 |
| Accounts Receivable | n 8 12 mg 2 2 |
| 1200 · Accounts Receivable | 3,182,958.00 |
| 1205 · A/R, Alliance Water | |
| 1205-01 ⋅ A/R, Alliance,Crystal Clear SUD | 1,821,238.07 |
| 1205-02 · A/R, Alliance, Martindale WSC | 30,838.05 |
| 1205-03 · A/R, Alliance, Green Valley SUD | 1,134,207.53 |
| 1205-04 · A/R, Alliance, County Line SUD | 189,827.00 |
| Total 1205 · A/R, Alliance Water | 3,176,110.65 |
| Total Accounts Receivable | 6,359,068.65 |
| Other Current Assets | 02 700 60 |
| 1499 · Undeposited Funds | 23,796.68 |
| Total Other Current Assets | 23,796.68 |
| Total Current Assets | 41,549,021.68 |

CANYON REGIONAL WATER AUTHORITY Balance Sheet

| _ | Jul 31, 23 |
|--|---------------------------|
| Fixed Assets | |
| 1400 · Capital Assets | |
| 1404 · Administration Building | 586,288.00 |
| 1406 · Capitalized Construction Intere | 11,273,728.00 |
| 1410 · Equipment & Vehicles | 402,287.46 |
| 1411 · Nanostone - Lake Dunlap | 1,156,411.20 |
| 1416 · Hays Caldwell | 6,437,579.37 |
| 1420 · Lake Dunlap Phase I | 4,764,833.00 |
| 1422 · Mid-Cities Phase I | 8,475,370.50 |
| 1424 · Office Equipment | 77,863.66 |
| 1434 · Property Improvements | 60,021.00 |
| 1436 · River Crossing | 577,934.36 |
| 1441 · LD Ozone Project | 3,677,549.16 |
| 1442 · Dunlap Water Treatment Plant | 5,155,886.29 |
| 1443 · Dunlap Chemical Tanks | 30,326.57 |
| 1444 · Hays Caldwel Phase 2 | 2,053,300.19 |
| 1445 · HC Chemical Tanks | 5,293.13 |
| 1446 · Mid-Cities Phase 2 | 32,322,395.02 |
| 1447 · Hays Caldwell Expansion-2017 | 02,022,000.02 |
| 1447-01 · HC Expansion, Capitalized Int | 122,276.51 |
| 1447 · Hays Caldwell Expansion-2017 - Other | 1,780,625.02 |
| Total 1447 · Hays Caldwell Expansion-2017 | 1,902,901.53 |
| 1450 · Wells Ranch Project | |
| 1450-01 · WellsRanch, Cap Interest | 5,041,728.49 |
| 1450 · Wells Ranch Project - Other | 40,885,863.75 |
| Total 1450 · Wells Ranch Project | 45,927,592.24 |
| 1451 · Wells Ranch Phase II-2011 | |
| 1451-01 · Capitalized Interest | 1,872,118.97 |
| 1451 · Wells Ranch Phase II-2011 - Other | 14,113,408.01 |
| Total 1451 · Wells Ranch Phase II-2011 | 15,985,526.98 |
| 1452 · Wells Ranch Phase II-2015 | |
| 1452-01 · Capitalized Interest | 1,930,053.69 |
| 1452 · Wells Ranch Phase II-2015 - Other | 39,920,319.22 |
| Total 1452 · Wells Ranch Phase II-2015 | 41,850,372.91 |
| I RECORD AND A STORY CONTRACTOR OF THE CONTRACTOR | 500 1.000 GS-03 |
| 1453 · Wells Ranch Phase III | 472,832.35 |
| 1490 · Accumulated Depreciation | -47,704,967.12 |
| Total 1400 · Capital Assets | 135,491,325.80 |
| Total Fixed Assets | 135,491,325.80 |
| Other Assets 1805 · Deferred Outflow-Pension 1670 · Land | 174,748.66 |
| 1672 · Johnson Abstract #47 | 163,243.95 |
| 1673 · Hays Caldwell Project | 540 020 44 |
| 1673-01 · Carlisle - 2.009 Acres 1673-02 · Land Acquisition Consultant HC | 549,930.44 5,698.00 |
| Total 1673 · Hays Caldwell Project | 555,628.44 |
| 1674 · Randolph Foster 10 Acres | 290,837.56 |
| | |
| 1075 · Wells Railch Project | 62,061.82 1,276,634.70 |
| 1676 · Land & Land Rights | 1,270,034.70 |
| Total 1670 · Land | 2,348,406.47 |

CANYON REGIONAL WATER AUTHORITY Balance Sheet

| | Jul 31, 23 |
|--|---|
| 1703 · Water Rights 1800 · Deferred Loss on Debt Refunding | 3,439,604.49 132,163.00 |
| Total Other Assets | 6,094,922.62 |
| TOTAL ASSETS | 183,135,270.10 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Accounts Payable 2000 · Accounts Payable | 770,179.37 |
| Total Accounts Payable | 770,179.37 |
| Credit Cards 2003 · A/P, Credit Cards | 32.57 |
| Total Credit Cards | 32.57 |
| Other Current Liabilities 2310 · Deferred Inflow-Pension 2300 · Net Pension Liability 2002 · A/P, Misc. 2140 · Texas Workforce 2165 · TCDRS Retirement Payable | 26,892.00 109,403.00 -240.00 3.97 28,931.17 |
| Total Other Current Liabilities | 164,990.14 |
| Total Current Liabilities | 935,202.08 |
| Long Term Liabilities 2200 · Deferred Revenue - San Marcos 2400 · Bonds Payable 2408 · LD/MC Tax-Exempt Series 2016 2426 · Hays Caldwell Series 2005 2430 · Hays Caldwell Series 2017 2431 · Hays Caldwell TE Series 2021 2432 · Hays Caldwell Series 2021 Ref | 4,975,022.00 16,720,000.00 535,000.00 4,055,000.00 11,650,000.00 1,940,000.00 33,195,000.00 |
| 2443 · Wells Ranch Series 2015 2446 · Wells Ranch Series 2016 | 21,385,000.00 |
| 2447 · Wells Ranch Series 2021 | 12,600,000.00 |
| Total 2400 · Bonds Payable | 102,080,000.00 |
| 2490 · Unamortized Premiums | 6,223,387.00 |
| Total Long Term Liabilities | 113,278,409.00 |
| Total Liabilities | 114,213,611.08 |
| Equity 3810 · Restricted for Membranes 3820 · Restricted for Debt Service 3950 · Retained Earnings 3975 · Inv in Cap Asset, net of debt Net Income | 1,622,825.00 4,181,580.00 10,146,761.77 42,875,888.52 10,094,603.73 |
| Total Equity | 68,921,659.02 |
| TOTAL LIABILITIES & EQUITY | 183,135,270.10 |
| | |

Canyon Regional Water Authority Profit Loss Budget vs. Actual October 2022 - July 2023

| % of Annual Budget | | | 84.11% | 82.27% | 55.33% | 83.33% | 83.33% | 83.33% | 54.68% | 81.76% | 83.33% | 83.33% | 83.1% | 83.33% | 100.0% | 100.0% | 100.0% | 100.0% | %96.38% | | | 82.57% | 82.57% | | 79.45% | 55.33% | 79.25% | 45.03% | 25.04% | | %0.0 | %0.0 | 83.33% | 54.66% 58.75% |
|----------------------------------|--------|-----------------|----------------------|------------------|-------------------------|----------------------------------|--------------------------------------|----------------------------|--------------------------------|--------------------|-------------------------|-----------------------------------|----------------------------|-----------------------|--------------------------------|--------------------------------------|---------------------------------------|---------------------|-----------------------|---|------------------------|----------------------|------------------------------|------------------------|----------------------------|------------------------------------|------------------------------|-----------------------|-----------------------------------|------------------|----------------------------------|-------------------------------------|---------------------------|---|
| \$ Over/(Under) Annual Budget | | | -2,028,441.71 | -1,168,099.07 | -25,474.93 | -90,329.47 | -23,810.68 | -2,860.60 | -240,780.29 | -930,067.56 | -590,737.32 | -290,391.50 | -313,327.07 | -831,561.31 | 300,095.10 | 275,160.94 | 780,750.21 | 12,884.82 | -5,166,990.44 | | | -2,225,365.16 | -2,225,365.16 | | -1,353,740.55 | -25,474.93 | -1,379,215.48 | -297.888.57 | -1,305,863.91 | | -3,988.00 | -17,160.00 | -23,141.18 | -240,844.53 -285,133.71 |
| Annual Budget | | | 12,766,256.11 | 6,588,316.09 | 57,023.93 | 541,867.57 | 142,835.08 | 17,160.00 | 531,234.89 | 5,098,170.49 | 3,543,714.12 | 1,742,000.00 | 1,854,409.67 | 4,988,323.01 | 0.00 | 0.00 | 0.00 | 00:00 | 37,871,310.96 | | | 12,766,256.11 | 12,766,256.11 | | 6,588,316.09 | 57,023.93 | 6,645,340.02 | 541.867.57 | 1,742,000.00 | | 3.988.00 | 17,160.00 | 138,847.08 | 531,234.89 691,229.97 |
| October 2022 July 2023 | | | 10,737,814,40 | 5,420,217.02 | 31,549.00 | 451,538.10 | 119,024.40 | 14,299,40 | 290,454.60 | 4,168,102.93 | 2,952,976.80 | 1,451,608.50 | 1,541,082.60 | 4,156,761.70 | 300,095.10 | 275,160.94 | 780,750.21 | 12,884.82 | 32,704,320.52 | | | 10,540,890,95 | 10,540,890.95 | | 5,234,575.54 | 31,549.00 | 5,266,124.54 | 243.979.00 | 436,136.09 | | 0.00 | 0.00 | 115,705.90 | 290,390.36 406,096.26 |
| July 2023 | | | 1,073,788.31 | 542,043.20 | 28,126.00 | 45,153.81 | 11,902.44 | 1,429.94 | 32,555.42 | 393,157.47 | 295,297.68 | 145,160.85 | 154,108.26 | 415,676.17 | 33,653.09 | 40,676.67 | 93,475.28 | 1,240.13 | 3,307,444.72 | | | 1,054,602.37 | 1,054,602.37 | | 1,833,936.56 | 28,126.00 | 1,862,062.56 | 40,284.00 | 0.00 | | 0.00 | 0.00 | 11,570.59 | 34,085.17 45,655.76 |
| | Income | 4000 · Revenues | 4002 · Debt Payments | 4003 · Raw Water | 4004 · Water-New Berlin | 4009 · Membrane Replacement Fund | 4010 · Line Use & Delivery Contracts | 4011 · Line Use New Berlin | 4012 · Raw Water Delivery Fees | 4017 · Water Sales | 4018 · Plant Operations | 4020 · Repair & Replacement Funds | 4022 · CRWA Administrative | 4023 · Alliance Water | 4024 · Interest Income General | 4026 · Interest Income Bond Accounts | 4028 · Interest Construction Accounts | 4030 · Other Income | Total 4000 · Revenues | and | 5000 · Bond Repayments | 5005 · Bond Payments | Total 5000 · Bond Repayments | 5500 · Water Purchases | 5501 · Raw Water Purchases | 5502 · Water Purchases, New Berlin | Total 5500 · Water Purchases | 5600 · Membrane Funds | 5700 · Repair & Replacement Funds | 0 2011 2011 0000 | 6005 • Line Use Contract Maxwell | 6008 · Line Use Contract New Berlin | 6010 · Line Contract GBRA | 6011 · GBKA Raw Water Delivery Fees Total 6000 · Line Use & Delivery Costs |

Canyon Regional Water Authority Profit Loss Budget vs. Actual October 2022 - July 2023

| | July 2023 | October 2022 July 2023 | Annual Budget | \$ Over/(Under) Annual Budget | % of Annual Budget |
|--|--------------------------|------------------------------|---|----------------------------------|-----------------------|
| 7000 · Plant Expenses-Variable Costs 7005 · Plant Utilities 7010 · Chemicals | 197,406.41 234,956.92 | 2,327,912.80 2,116,700.68 | 2,937,210.46 | -609,297.66 | 79.26% 97.66% |
| Total 7000 · Plant Expenses-Variable Costs | 432,363.33 | 4,444,613.48 | 5,104,670.49 | -660,057.01 | 87.07% |
| 7100 · Operating Expenses | 114 440 92 | 844 030 25 | 1 250 000 00 | 405,767,75 | 67.54% |
| 7116 · Generator Maintenance | 0.00 | 44,684.92 | 124,850.00 | -80,165.08 | 35.79% |
| 7117 · Equipment rental | 3,713.94 | 33,821.02 | 33,300.00 | 521.02 | 101.57% |
| 7120 · SCADA | 0.00 | 67,470.97 | 205,000.00 | -137,529.03 | 32.91% |
| 7122 · Vehicle Operations | 2,840.48 | 33,655.97 | 90,000.00 | -56,344.03 | 37.4% |
| 7125 · Grounds Maintenance | 10,044.99 | 100,506.74 | 118,630.00 | -18,123.26 | 131 58% |
| 7131 · Permits and Fees | 00.0 | 27,040.12 | 20,550.00 | 95 407 66 | 71.30% |
| 7135 · Lab Supplies & Testing Fees | 76,087,01 | 90,272.34 | 103 964 46 | -4.505.08 | 95.67% |
| 7140 · Insurance | 1 867 36 | 30,453.38 | 35,000.00 | -4,552.82 | 86.99% |
| 7155 Memberships & Dues | 210.00 | 9.467.00 | 6,550.00 | 2,917.00 | 144.53% |
| 7160 · Mileade | 3,879,23 | 32,502.47 | 31,250.00 | 1,252.47 | 104.01% |
| 7162 · Office Supplies and Expense | 4,102.39 | 22,749.28 | 27,000.00 | -4,250.72 | 84.26% |
| | 0.00 | 2,458.19 | 11,500.00 | -9,041.81 | 21.38% |
| 7170 · Clothing | 0.00 | 3,300.00 | 4,200.00 | -900.00 | 78.57% |
| 7175 · Telephones | 365.24 | 3,658.30 | 4,500.00 | -841.70 | 81.3% |
| 7180 · Mobile Telephones | 1,293.15 | 12,098.20 | 14,900.00 | -2,801.80 | 81.2% |
| 7190 · Network Expenses | 0.00 | 5,632.85 | 7,000.00 | -1,367.15 | 80.47% |
| 7191 · Internet Domain | 410.49 | 3,769.75 | 4,000.00 | -230.25 | 94.24% |
| 7195 · Contract Labor | 0.00 | 0.00 | 4,000.00 | -4,000.00 | %0:0 |
| 7196 · GW Transport/Pumping Fees | 15,288.55 | 247,852.11 | 280,000.00 | -32,147.89 | 88.52% |
| Total 7100 · Operating Expenses | 169,187.31 | 1,715,079.04 | 2,501,894.46 | -786,815.42 | 68.55% |
| 7500 · Payroll Expenses | 132.780.78 | 1.198.536.42 | 1.570.212.20 | -371,675.78 | 76.33% |
| VEST Constitution | 9 497 42 | 72 195 85 | 111,735,39 | -39.539.54 | 64.61% |
| 7530 · On Call | 240.00 | 1,972.57 | 10,920.00 | -8,947.43 | 18.06% |
| Total 7500 · Payroll Expenses | 142,518.20 | 1,272,704.84 | 1,692,867.59 | -420,162.75 | 75.18% |
| 7600 · Employee Benefits | . 07 | 00000 | 2 c c c c c c c c c c c c c c c c c c c | 2 477 8 c | 70.44% |
| 7605 · Payroll Taxes 7610 · Insurance | 13,593.84 | 134,802.09 | 192,000.00 | -57,197.91 | 70.21% |
| 7615 · Retirement | 18,954.88 | 162,683.92 | 225,151.39 | -62,467.47 | 72.26% |
| Total 7600 · Employee Benefits | 47,910.10 | 003,017.00 | 40,010 | 7.044.001 | : |

Canyon Regional Water Authority Profit Loss Budget vs. Actual October 2022 - July 2023

| | July 2023 | October 2022 July 2023 | Annual Budget | \$ Over/(Under) Annual Budget | % of Annual Budget | |
|---|--------------------------|------------------------------|------------------|----------------------------------|-----------------------|--|
| | | | | | | |
| 7800 · Professional Fees | | | | | | |
| 7801 · SEC Disclosure | 0.00 | 0.00 | 2,250.00 | -2,250.00 | 0.0% | |
| 7802 · Bank Service Fees | 54.00 | 193.00 | 200.00 | -7.00 | 96.5% | |
| 7803 · 401(k) Plan Fees | 400.00 | 1,707.50 | 2,000.00 | -292.50 | 85.38% | |
| 7806 · Bond Fees | 800.00 | 2,800.00 | 3,000.00 | -200.00 | 93.33% | |
| 7805 · Legal Fees | 14,908.35 | 302,572.42 | 275,000.00 | 27,572.42 | 110.03% | |
| 7810 · Engineering | 28,751.16 | 187,878.21 | 350,000.00 | -162,121.79 | 53.68% | |
| 7815 · Director Bonds | 0.00 | 0.00 | 1,200.00 | -1,200.00 | 0.0% | |
| 7820 - Accounting & Audit | 0.00 | 14,825.00 | 14,900.00 | -75.00 | 89.5% | |
| Total 7800 · Professional Fees | 44,913.51 | 509,976.13 | 648,550.00 | -138,573.87 | 78.63% | |
| 7823 · Alliance Water | 1,247,081.00 | 4,846,744.83 | 4,988,323.01 | -141,578.18 | 97.16% | |
| Total Expense | 5,081,646.80 | 30,072,216.69 | 37,871,310.96 | -7,799,094.27 | 79.41% | |
| Net Ordinary Income | -1,774,202.08 | 2,632,103.83 | 0.00 | 2,632,103.83 | 100.0% | |
| Other Income/Expense Other Income 8000 · Bond Payment Principal Net Other Income/Expense | 746,249.99 746,249.99 | 7,462,499.90 7,462,499.90 | 0.00 | 0.00 7,462,499.90 | 100.0% | |
| Net Income | -1,027,952.09 | 10,094,603.73 | 0.00 | 10,094,603.73 | 400.0% | |

CANYON REGIONAL WATER AUTHORITY Profit & Loss Prev Year Comparison

October 2022 through July 2023

| | OCCORET 2022 CITION | | | | |
|--|--|--|---|-----------------------------------|------|
| | Oct '22 - Jul 23 | Oct '21 - Jul 22 | \$ Change | % Change | |
| ordinary Income/Expense | y /// | | | | |
| Income 4000 · Revenues | | | | 40.40/ | |
| 4002 - Debt Payments | 10,737,814.40 | 9,722,622.71 | 1,015,191.69 | 10.4% 41.7% | |
| 4003 · Raw Water | 5,420,217.02 | 3,823,921.70 | 1,596,295.32 27,361.80 | 653.5% | |
| 4004 · Water-New Berlin | 31,549.00 | 4,187.20 81,478.80 | 370,059.30 | 454.2% | |
| 4009 · Membrane Replacement Fund | 451,538.10 119,024.40 | 362,789.70 | -243,765.30 | -67.2% | |
| 4010 · Line Use & Delivery Contracts | 14,299.40 | 14,299.40 | 0.00 | 0.0% | |
| 4011 · Line Use New Berlin 4012 · Raw Water Delivery Fees | 290,454.60 | 0.00 | 290,454.60 | 100.0% | |
| 4017 · Water Sales | 4,168,102.93 | 3,456,857.31 | 711,245.62 | 20.6% 21.3% | |
| 4018 · Plant Operations | 2,952,976.80 | 2,434,085.40 | 518,891.40 618,308.60 | 74.2% | |
| 4020 · Repair & Replacement Funds | 1,451,608.50 | 833,299.90 1,206,885.10 | 334,197.50 | 27.7% | |
| 4022 · CRWA Administrative | 1,541,082.60 4,156,761.70 | 3,809,436.40 | 347,325.30 | 9.1% | |
| 4023 · Alliance Water | 300,095.10 | 42,408.04 | 257,687.06 | 607.6% | |
| 4024 · Interest Income General 4026 · Interest Income Bond Accounts | 275,160.94 | 38,284.11 | 236,876.83 | 618.7% 933.4% | |
| 4028 - Interest Construction Accounts | 780,750.21 | 75,550.58 | 705,199.63 -2,105.56 | -14.1% | |
| 4030 - Other Income | 12,884.82 | 14,990.38 | | -14,170 | 26.2 |
| Total 4000 · Revenues | 32,704,320.52 | 25,921,096.73 | 6,783,223.79 | | 26.2 |
| Total Income | 32,704,320.52 | 25,921,096.73 | 6,783,223,79 | | 26.2 |
| Gross Profit | 32,704,320.52 | 25,921,096.73 | 0,700,220.70 | | |
| Expense 5000 · Bond Repayments | 40 540 550 05 | 10,311,585.15 | 229,305.80 | 2.2% | |
| 5005 · Bond Payments | 10,540,890.95 | 10,311,585.15 | 229,305.80 | | 2.2 |
| Total 5000 · Bond Repayments | 10,540,030.33 | | | V Foodback on Market | |
| 5500 · Water Purchases 5501 · Raw Water Purchases | 5,234,575.54 | 4,341,739.52 | 892,836.02 27,361.80 | 20.6% 653.5% | |
| 5502 · Water Purchases, New Berlin | 31,549.00 | 4,187.20 | 920,197.82 | | 21.2 |
| Total 5500 · Water Purchases | 5,266,124.54 243,979.00 | 1.294.47 | 242,684.53 | 18 | 747. |
| 5600 · Membrane Funds 5700 · Repair & Replacement Funds | 436,136.09 | 74,633.34 | 361,502.75 | | 484. |
| 6000 · Line Use & Delivery Costs 6010 · Line Contract GBRA 6011 · GBRA Raw Water Delivery Fees | 115,705.90 290,390.36 | 354,287.98 0.00 | -238,582.08 290,390.36 | -67.3% 100.0% | |
| Total 6000 · Line Use & Delivery Costs | 406,096.26 | 354,287.98 | 51,808.28 | | 14.6 |
| 7000 · Plant Expenses-Variable Costs | | | 054 077 05 | 17.8% | |
| 7005 · Plant Utilities 7010 · Chemicals | 2,327,912.80 2,116,700.68 | 1,976,535.75 1,576,540.62 | 351,377.05 540,160.06 | 34.3% | |
| Total 7000 · Plant Expenses-Variable Costs | 4,444,613.48 | 3,553,076.37 | 891,537.11 | | 25. |
| 7100 · Operating Expenses | 844,232.25 | 733,128.24 | 111,104.01 | 15.2% | |
| 7115 · Plant Maintenance & Supplies | | Signatura de la composición del composición de la composición de l | -14,140.24 | -24.0% | |
| 7116 · Generator Maintenance | 44,684.92 | 58,825.16 27,343.80 | 6.477.22 | 23.7% | |
| 7117 · Equipment rental | 33,821.02 67,470.97 | 192,460.95 | -124,989.98 | -64.9% | |
| 7120 · SCADA | 33,655.97 | 24,936.76 | 8,719.21 | 35.0% | |
| 7122 · Vehicle Operations 7125 · Grounds Maintenance | 100.506.74 | 82,231.76 | 18,274.98 | 22.2% | |
| 7131 · Permits and Fees | 27,040.12 | 23,005.23 | 4,034.89 | 17.5% -2.9% | |
| 7135 · Lab Supplies & Testing Fees | 90,272.34 | 92,951.02 | -2,678.68 15,321.20 | 18.2% | |
| 7140 Insurance | 99,459.38 | 84,138.18 26,930.28 | 3,516.90 | 13.1% | |
| 7150 · Meals & Functions | 30,447.18 | 4,737.00 | 4,730.00 | 99.9% | |
| 7155 · Memberships & Dues | 9,467.00 | 23,146.80 | 9,355.67 | 40.4% | |
| 7160 · Mileage | 32,502.47 22,749.28 | 19,398.51 | 3,350.77 | 17.3% | |
| 7162 · Office Supplies and Expense | 2,458.19 | 9,393.89 | -6,935.70 | -73.8% | |
| 7165 · Training | 3,300.00 | 3,000.00 | 300.00 | 10.0% | |
| 7170 · Clothing | 3,658.30 | 4,167.94 | -509.64 | -12.2% | |
| 7175 · Telephones | 12,098.20 | 13,211.53 | -1,113.33 | -8.4% | |
| 7180 · Mobile Telephones | 5,632.85 | 8,545.41 | -2,912.56 | -34.1% | |
| | | 4,122.85 | -353.10 43,000.90 | -8.6% 21.0% | |
| 7190 - Network Expenses 7191 - Internet Domain | 3,769.75 | 004.054.04 | | | |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees | 247,852.11 | 204,851.21 | | | 4 |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses | | 204,851.21 1,640,526.52 | 74,552.52 | 60 L Steen | |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees | 247,852.11 1,715,079.04 1,198,536.42 | 1,640,526.52 1,012,117.70 | 74,552.52 186,418.72 | 18.4% -8.5% | |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses 7500 · Payroll Expenses 7505 · Annual Pay 7510 · Overtime | 247,852.11 1,715,079.04 | 1,640,526.52 | 74,552.52 | 18.4% -8.5% -77.8% | |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses 7500 · Payroll Expenses 7505 · Annual Pay | 247,852.11 1,715,079.04 1,198,536.42 72,195.85 | 1,640,526.52 1,012,117.70 78,940.84 | 74,552.52 186,418.72 -6,744.99 | -8.5% | |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses 7500 · Payroll Expenses 7505 · Annual Pay 7510 · Overtime 7530 · On Call Total 7500 · Payroll Expenses 7600 · Employee Benefits | 247,852.11 1,715,079.04 1,198,536.42 72,195.85 1,972.57 1,272,704.84 | 1,640,526.52 1,012,117.70 78,940.84 8,880.00 1,099,938.54 | 74,552.52 186,418.72 -6,744.99 -6,907.43 | -8.5% -77.8% 15.5% | 15 |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses 7500 · Payroll Expenses 7505 · Annual Pay 7510 · Overtime 7530 · On Call Total 7500 · Payroll Expenses 7600 · Employee Benefits 7605 · Payroll Taxes | 247,852.11 1,715,079.04 1,198,536.42 72,195.85 1,972.57 1,272,704.84 92,385.52 | 1,640,526.52 1,012,117.70 78,940.84 8,880.00 | 74,552.52 186,418.72 -6,744.99 -6,907.43 172,766.30 12,363.85 23,816.33 | -8.5% -77.8% 15.5% 21.5% | 15 |
| 7191 · Internet Domain 7196 · GW Transport/Pumping Fees Total 7100 · Operating Expenses 7500 · Payroll Expenses 7505 · Annual Pay 7510 · Overtime 7530 · On Call Total 7500 · Payroll Expenses | 247,852.11 1,715,079.04 1,198,536.42 72,195.85 1,972.57 1,272,704.84 | 1,640,526.52 1,012,117.70 78,940.84 8,880.00 1,099,938.54 80,021.67 | 74,552.52 186,418.72 -6,744.99 -6,907.43 172,766.30 12,363.85 | -8.5% -77.8% 15.5% | 15 |

CANYON REGIONAL WATER AUTHORITY Profit & Loss Prev Year Comparison

October 2022 through July 2023

| | Oct '22 - Jul 23 | Oct '21 - Jul 22 | \$ Change | % Change |
|-----------------------------------|------------------|------------------|--------------|---------------|
| 7800 · Professional Fees | | | | 000Fe1concord |
| 7801 · SEC Disclosure | 0.00 | 2,250.00 | -2,250.00 | -100.0% |
| 7802 · Bank Service Fees | 193,00 | 151.00 | 42.00 | 27.8% |
| 7803 · 401(k) Plan Fees | 1,707.50 | 1,527.50 | 180.00 | 11.8% |
| 7806 · Bond Fees | 2,800.00 | 2,800.00 | 0.00 | 0.0% |
| 7805 · Legal Fees | 302,572.42 | 123,775.96 | 178,796.46 | 144.5% |
| 7810 · Engineering | 187,878.21 | 233,025.71 | -45,147.50 | -19.4% |
| 7820 · Accounting & Audit | 14,825.00 | 14,400.00 | 425.00 | 3.0% |
| Total 7800 - Professional Fees | 509,976.13 | 377,930.17 | 132,045.96 | 34.99 |
| 7823 · Alliance Water | 4,846,744.83 | 4,371,000.55 | 475,744.28 | 10.99 |
| Total Expense | 30,072,216.69 | 26,437,876.59 | 3,634,340.10 | 13,8% |
| Net Ordinary Income | 2,632,103.83 | -516,779.86 | 3,148,883.69 | 609.39 |
| Other Income/Expense Other Income | | | | |
| 8000 · Bond Payment Principal | 7,462,499.90 | 6,962,499.93 | 499,999.97 | 7.29 |
| Total Other Income | 7,462,499.90 | 6,962,499.93 | 499,999.97 | 7.29 |
| Net Other Income | 7,462,499.90 | 6,962,499.93 | 499,999.97 | 7.29 |
| t Income | 10,094,603.73 | 6,445,720.07 | 3,648,883.66 | 56.69 |

CANYON REGIONAL WATER AUTHORITY Monthly General Account Check Register As of July 31, 2023

| | Туре | Date | Num | Name | Memo | Amount | Balance |
|---|------------------------------------|--------------------------|------------------|--|---|--------------------------|------------------------------|
| 1 | 001 · First United B | ank | | | | | 3,127,067.73 3,127,067.73 |
| | 1006 · First Unite | | | CVEC Big Oaks | 05/08/2023-06/08/2023 | -28.00 | 3,127,039.73 |
| | Bill Pmt -Check Bill Pmt -Check | 07/03/2023 07/03/2023 | ACH ACH | GVEC - Big Oaks GVEC - Bond East Well | 05/08/2023-06/08/2023 | -561.10 | 3,126,478.63 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Bond West Well | 05/08/2023-06/08/2023 | -3,144.50 | 3,123,334.13 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Bull Trap Well | 05/08/2023-06/08/2023 | -1,742.00 -2,561.00 | 3,121,592.13 3,119,031.13 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Camphouse Well | 05/08/2023-06/08/2023 05/08/2023-06/08/2023 | -2,198.86 | 3,116,832.27 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Chicken House Well GVEC - Christian East Well | 05/08/2023-06/08/2023 | -2,493.60 | 3,114,338.67 |
| | Bill Pmt -Check Bill Pmt -Check | 07/03/2023 07/03/2023 | ACH ACH | GVEC - Christian West Well | 05/08/2023-06/08/2023 | -3,105.23 | 3,111,233.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Cibolo | 05/08/2023-06/08/2023 | -28.00 | 3,111,205.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Coastal Field Well | 05/08/2023-06/08/2023 | -2,010.00 -53.00 | 3,109,195.44 3,109,142.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Damerau GVEC - Deadman Tank Well | 05/08/2023-06/08/2023 05/08/2023-06/08/2023 | -9,533.00 | 3,099,609.44 |
| | Bill Pmt -Check | 07/03/2023 07/03/2023 | ACH ACH | GVEC - Deadman Tank Well | 05/08/2023-06/08/2023 | -9,487.00 | 3,090,122.44 |
| | Bill Pmt -Check Bill Pmt -Check | 07/03/2023 | ACH | GVEC - FM 467 | 05/08/2023-06/08/2023 | -30,00 | 3,090,092.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Green Valley | 05/08/2023-06/08/2023 | -30.00 | 3,090,062.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - GV 7293 IH 10 | 05/08/2023-06/08/2023 | -30.00 -35.00 | 3,090,032.44 3,089,997.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Hardy Road | 05/08/2023-06/08/2023 05/08/2023-06/08/2023 | -52.00 | 3,089,945.44 |
| | Bill Pmt -Check | 07/03/2023 | ACH ACH | GVEC - Hickory Forest GVEC - Littlefield Well | 05/08/2023-06/08/2023 | -2,454.03 | 3,087,491.41 |
| | Bill Pmt -Check Bill Pmt -Check | 07/03/2023 07/03/2023 | ACH | GVEC - Marion | 05/08/2023-06/08/2023 | -27.00 | 3,087,464.41 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Pig Trap Well | 05/08/2023-06/08/2023 | -1,602.00 | 3,085,862.41 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Pivot Irrigation | 05/08/2023-06/08/2023 | -62.00 -205.00 | 3,085,800.41 3,085,595.41 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Tommys Well | 05/08/2023-06/08/2023 05/08/2023-06/08/2023 | -787.02 | 3,084,808.39 |
| | Bill Pmt -Check | 07/03/2023 | ACH | GVEC - Wagner Booster Stn #2 5S Service Company LLC | Repairs | -1,534.70 | 3,083,273.69 |
| | Bill Pmt -Check Bill Pmt -Check | 07/07/2023 07/07/2023 | 36925 36926 | Analytical Environmental Labor | Lab Testing | -270.00 | 3,083,003.69 |
| | Bill Pmt -Check | 07/07/2023 | 36927 | Archive Power Systems, Inc. | DocuXplorer Subscription Ren | -693.50 | 3,082,310.19 |
| | Bill Pmt -Check | 07/07/2023 | 36928 | Armadillo Lawn Care & Irrigation | Lawn Maintenance | -7,651.67 -3,285.00 | 3,074,658.52 3,071,373.52 |
| | Bill Pmt -Check | 07/07/2023 | 36929 | Bleck Electric Company | Repairs | -3,265.00 -4,867.94 | 3,066,505.58 |
| | Bill Pmt -Check | 07/07/2023 | 36930 | Brenntag Southwest, Inc. Brian Heideman | Chemicals Redesign Webside | -750.00 | 3,065,755.58 |
| | Bill Pmt -Check | 07/07/2023 07/07/2023 | 36931 36932 | Callis Professional Services, L | Office Cleaning | -370.70 | 3,065,384.88 |
| | Bill Pmt -Check Bill Pmt -Check | 07/07/2023 | 36933 | Citibank, N.A. | Mastercard | -15,355.72 | 3,050,029.16 |
| | Bill Pmt -Check | 07/07/2023 | 36934 | David McMullen | June Mileage & Phone Reimbu | -2,645.62 -10,002.40 | 3,047,383.54 3,037,381.14 |
| | Bill Pmt -Check | 07/07/2023 | 36935 | DPC Industries | Chlorine Chemicals | -10,002.40 -51,341.80 | 2,986,039.34 |
| | Bill Pmt -Check | 07/07/2023 | 36936 | Evoqua Water Technologies LLC Fluid Meter Service, Corp. | Field Test Meters | -2,550.00 | 2,983,489.34 |
| | Bill Pmt -Check Bill Pmt -Check | 07/07/2023 07/07/2023 | 36937 36938 | Friedel Drilling Co. | Repair Well #15 | -49,193.00 | 2,934,296.34 |
| | Bill Pmt -Check | 07/07/2023 | 36939 | Garrison Comal Supply, LLC | Parts | -51.37 | 2,934,244.97 |
| | Bill Pmt -Check | 07/07/2023 | 36940 | Hach Company | Lab Supplies | -177.02 | 2,934,067.95 2,923,294.95 |
| | Bill Pmt -Check | 07/07/2023 | 36941 | Hawkins | Chemicals Cylinder Rental | -10,773.00 -14.98 | 2,923,279.97 |
| | Bill Pmt -Check | 07/07/2023 | 36942 36943 | Hofmann's Supply Law Offices of Patricia Erlinger | Groundwater Permitting | -1,004.50 | 2,922,275.47 |
| | Bill Pmt -Check Bill Pmt -Check | 07/07/2023 07/07/2023 | 36944 | Louis T. Rosenberg | Legal Fees | -9,445.35 | 2,912,830.12 |
| | Bill Pmt -Check | 07/07/2023 | 36945 | Matheson Tri-Gas, Inc. | Oxygen & Cylinder Rental | -9,269.94 | 2,903,560.18 |
| | Bill Pmt -Check | 07/07/2023 | 36946 | New Braunfels Welders Supply | Cylinder Rental | -7.50 -1,455.88 | 2,903,552.68 2,902,096.80 |
| | Bill Pmt -Check | 07/07/2023 | 36947 | Standard Insurance Company | Dental Insurance Wells Ranch Water Lease Acq | -2,790.00 | 2,899,306.80 |
| | Bill Pmt -Check | 07/07/2023 | 36948 36949 | Texas Land and Right of Way Trihydro Corporation | Wells Ranch III PER | -4,992.50 | 2,894,314.30 |
| | Bill Pmt -Check | 07/07/2023 07/07/2023 | 36950 | Waste Management | Garbage Disposal | -1,230.45 | 2,893,083.85 |
| | Bill Pmt -Check Bill Pmt -Check | 07/07/2023 | 36951 | Williams Supply Company | Parts | -832.90 | 2,892,250.95 |
| | Bill Pmt -Check | 07/07/2023 | ACH | Texas Fleet Fuel | Vehicle/Equipment Fuel | -990.70 123,894.97 | 2,891,260.25 3,015,155.22 |
| | Deposit | 07/10/2023 | | | Deposit Deposit | 274,488.88 | 3,289,644.10 |
| | Deposit | 07/10/2023 | ACH | TCDRS | Deposit | -12,037.28 | 3,277,606.82 |
| | Liability Check Liability Check | 07/14/2023 07/14/2023 | ACH | TCDRS | | -12,406.04 | 3,265,200.78 |
| | Paycheck | 07/14/2023 | Direct | Allman, Michael | | -2,781.12 | 3,262,419.66 |
| | Liability Check | 07/14/2023 | ACH | TCDRS | | -12,526.38 -1,537.96 | 3,249,893.28 3,248,355.32 |
| | Paycheck | 07/14/2023 | Direct | Cruz, Edward D | | -2,000.18 | 3,246,355.14 |
| | Paycheck | 07/14/2023 07/14/2023 | Direct Direct | Flores, Jimmy Kirkland, Debra M | | -1,927.38 | 3,244,427.76 |
| | Paycheck Paycheck | 07/14/2023 | Direct | McKnight III, John R. | | -1,514.39 | 3,242,913.37 |
| | Paycheck | 07/14/2023 | Direct | Moreno, Joe | | -3,085.31 | 3,239,828.06 |
| | Paycheck | 07/14/2023 | Direct | Powers, Frantiska A | | -1,545.31 -1,406.81 | 3,238,282.75 3,236,875.94 |
| | Paycheck | 07/14/2023 | Direct | Saldana, Michael A | | -2,175.31 | 3,234,700.63 |
| | Paycheck | 07/14/2023 | Direct Direct | Shirk, Austin Sims, Clarissa R | | -1,425.09 | 3,233,275.54 |
| | Paycheck Paycheck | 07/14/2023 07/14/2023 | Direct | Wallace, Russell L | | -1,558.91 | 3,231,716.63 |
| | Paycheck | 07/14/2023 | Direct | Whitelatch, Jr., Richard L. | | -1,481.09 | 3,230,235.54 3,225,511.85 |
| | Paycheck | 07/14/2023 | Direct | Kaufman, John M | | -4,723.69 -3,527.75 | 3,225,511.65 |
| | Paycheck | 07/14/2023 | Direct | McMullen, David W. Ramos, Humberto | | -3,130.75 | 3,218,853.35 |
| | Paycheck | 07/14/2023 07/14/2023 | Direct Direct | Telfer, Adam C | | -3,280.76 | 3,215,572.59 |
| | Paycheck Paycheck | 07/14/2023 | Direct | Wilkinson, Joan A. | | -3,178.78 | 3,212,393.81 |
| | Liability Check | 07/14/2023 | ACH | John Hancock | 401(k) Retirement Plan | -1,251.59 15.036.38 | 3,211,142.22 3,196,105.84 |
| | Liability Check | 07/14/2023 | EFTPS | US Treasury | 74-2586063 | -15,036.38 | 0, 180, 100.04 |
| | | | | | | | * |

CANYON REGIONAL WATER AUTHORITY Monthly General Account Check Register

| Туре | Date | Num | Name | Memo | Amount | Balance |
|------------------------------------|--------------------------|----------------|--|--|-------------------------|------------------------------|
| Liability Check | 07/14/2023 | 36952 | California State Disbursement | 20000001098628 | -449.07 | 3,195,656.77 |
| Liability Check | 07/14/2023 | 36953 | Office of the Attorney General | AG# 0012809999 | -489.69 | 3,195,167.08 |
| Transfer | 07/14/2023 | 30330 | Office of the 7 thorney Contoral | Pall Payment #6 | 40,284.00 | 3,235,451.08 |
| Bill Pmt -Check | 07/14/2023 | 36954 | Brenntag Southwest, Inc. | Chemicals | -19,524.50 | 3,215,926.58 |
| Bill Pmt -Check | 07/14/2023 | 36955 | Charter Communications | HC Internet | -125.64 | 3,215,800.94 |
| Bill Pmt -Check | 07/14/2023 | 36956 | DPC Industries | Chlorine | -3,336.80 | 3,212,464.14 |
| Bill Pmt -Check | 07/14/2023 | 36957 | DSHS Central Lab MC2004 | Lab Testing | -327.46 | 3,212,136.68 |
| Bill Pmt -Check | 07/14/2023 | 36958 | Helping Hand Hardware | Maintenance Supplies | -376.15 | 3,211,760.53 |
| Bill Pmt -Check | 07/14/2023 | 36959 | John Kaufman | Mileage Reimbursement | -250.21 | 3,211,510.32 |
| Bill Pmt -Check | 07/14/2023 | 36960 | Lhoist North America of Texas, | Lime | -7,026.79 -596.30 | 3,204,483.53 3,203,887,23 |
| Bill Pmt -Check | 07/14/2023 | 36961 | Loftin Equipment Company | Repairs | -46.84 | 3,203,840.39 |
| Bill Pmt -Check | 07/14/2023 | 36962 | New Braunfels Welders Supply | Nitrogen 6th Installment Payment | -40,284.00 | 3,163,556.39 |
| Bill Pmt -Check | 07/14/2023 | 36963 36964 | Pall Corporation Sam's Club MC/SYNCB | Supplies | -940.78 | 3,162,615.61 |
| Bill Pmt -Check Bill Pmt -Check | 07/14/2023 07/14/2023 | 36965 | Texas Excavation Safety Syste | Texas 811 | -236.55 | 3,162,379.06 |
| Bill Pmt -Check | 07/14/2023 | 36966 | Utility Engineering Group, PLLC | Engineering Fees | -2,660.00 | 3,159,719.06 |
| Bill Pmt -Check | 07/14/2023 | 36967 | Waste Connections | Garbage Disposal | -377.17 | 3,159,341.89 |
| Bill Pmt -Check | 07/14/2023 | 36968 | Wastewater Transport Service | Sludge Removal | -3,833.02 | 3,155,508.87 |
| Deposit | 07/14/2023 | | ACC 80 10 10 10 10 10 10 10 10 10 10 10 10 10 | Deposit | 693,246.58 | 3,848,755.45 |
| Check | 07/17/2023 | ACH | Benjamin T. Brizendine | Semi-Annual Water Lease Pay | -9,378.49 | 3,839,376.96 |
| Check | 07/17/2023 | ACH | Larry G. & Brenda K. Miles | Semi-Annual Water Lease Pay | -7,021.29 | 3,832,355.67 |
| Check | 07/17/2023 | ACH | Brown Trust | Semi-Annual Water Lease Pay | -112,672.58 | 3,719,683.09 |
| Check | 07/17/2023 | ACH | Bruce J. & Marcille D. Patteson | Semi-Annual Water Lease Pay | -82,894.13 | 3,636,788.96 3,631,100.12 |
| Check | 07/17/2023 | ACH | Carol L. Dodgen | Semi-Annual Water Lease Pay | -5,688.84 -564.83 | 3,630,535.29 |
| Check | 07/17/2023 | ACH | Carrie Neal Haner Howington | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -137.94 | 3,630,397.35 |
| Check | 07/17/2023 | ACH ACH | Clayton L. Hines Craig L. Hines - Water Lease | Semi-Annual Water Lease Pay | -7,270.16 | 3,623,127.19 |
| Check | 07/17/2023 07/17/2023 | ACH | Dennis L. Harris | Semi-Annual Water Lease Pay | -232.46 | 3,622,894.73 |
| Check Check | 07/17/2023 | ACH | Diane Ritchie | Semi-Annual Water Lease Pay | -15,781.32 | 3,607,113.41 |
| Check | 07/17/2023 | ACH | Donald G. Tenberg | Semi-Annual Water Lease Pay | -25,094.76 | 3,582,018.65 |
| Check | 07/17/2023 | ACH | Dwayne A. Cusick | Semi-Annual Water Lease Pay | -214.92 | 3,581,803.73 |
| Check | 07/17/2023 | ACH | Gary D. Howell | Semi-Annual Water Lease Pay | -1,121.81 | 3,580,681.92 |
| Check | 07/17/2023 | ACH | Georganna P. Sherbert | Semi-Annual Water Lease Pay | -564.83 | 3,580,117.09 |
| Check | 07/17/2023 | ACH | Gordon N. Houston | Semi-Annual Water Lease Pay | -583.47 | 3,579,533.62 |
| Check | 07/17/2023 | ACH | Helene B. Murphy | Semi-Annual Water Lease Pay | -409.92 | 3,579,123.70 |
| Check | 07/17/2023 | ACH | Hines Family Liquids Trust | Semi-Annual Water Lease Pay | -83,675.44 | 3,495,448.26 3,466,886.00 |
| Check | 07/17/2023 | ACH | James B. Harris | Semi Annual Water Lease Pay | -28,562,26 -250.37 | 3,466,635.63 |
| Check | 07/17/2023 | ACH | Jesse R. Trevino, Jr. | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -232.16 | 3,466,403.47 |
| Check | 07/17/2023 | ACH ACH | Jesse Trevino III James D Bailey | Semi-Annual Water Lease Pay | -876.41 | 3,465,527.06 |
| Check Check | 07/17/2023 07/17/2023 | ACH | Rosemary Mauermann | Semi-Annual Water Lease Pay | -31,393.86 | 3,434,133.20 |
| Check | 07/17/2023 | ACH | KP Ranch, LLC | Semi-Annual Water Lease Pay | -11,027.89 | 3,423,105.31 |
| Check | 07/17/2023 | ACH | Lewis Patteson | Semi-Annual Water Lease Pay | -1,694.49 | 3,421,410.82 |
| Check | 07/17/2023 | ACH | Lyman S. Davis, Trustee | Semi-Annual Water Lease Pay | -1,008.68 | 3,420,402.14 |
| Check | 07/17/2023 | ACH | Mark M. Howell | Semi-Annual Water Lease Pay | -370.01 | 3,420,032.13 |
| Check | 07/17/2023 | ACH | Michael D & Mitzi Whorton | Semi-Annual Water Lease Pay | -649.30 | 3,419,382.83 |
| Check | 07/17/2023 | ACH | Michael L. & Patti R. Ewing | Semi-Annual Water Lease Pay | -3,117.98 | 3,416,264.85 |
| Check | 07/17/2023 | ACH | Michelle Lemoine | Semi Annual Water Lease Pay | -2,862.62 -59,924.49 | 3,413,402.23 3,353,477.74 |
| Check | 07/17/2023 | ACH | MRJR, Ltd. | Semi-Annual Water Lease Pay Semi Annual Water Lease Pay | -2,862.62 | 3,350,615.12 |
| Check | 07/17/2023 | ACH | Rebecca Harris Richard L. Lott | Semi-Annual Water Lease Pay | -9,728.03 | 3,340,887.09 |
| Check | 07/17/2023 07/17/2023 | ACH ACH | Robert and Nichole Roberts | Semi-Annual Water Lease Pay | -879.95 | 3,340,007.14 |
| Check Check | 07/17/2023 | ACH | Robert Yuras | Semi-Annual Water Lease Pay | -287.29 | 3,339,719.85 |
| Check | 07/17/2023 | ACH | Sandra Dingler | Semi-Annual Water Lease Pay | -7,257.77 | 3,332,462.08 |
| Check | 07/17/2023 | ACH | Teresa or Jack Anderson | Semi-Annual Water Lease Pay | -2,472.57 | 3,329,989.51 |
| Check | 07/17/2023 | ACH | Terry Mauermann | Semi-Annual Water Lease Pay | -18,329.03 | 3,311,660.48 |
| Check | 07/17/2023 | ACH | William & Vernelle Jones | Semi-Annual Water Lease Pay | -1,077.66 | 3,310,582.82 |
| Check | 07/17/2023 | 36845 | Andrew Lakey | Semi-Annual Water Lease Pay | -2,154.49 | 3,308,428.33 |
| Check | 07/17/2023 | 36846 | Arlynn H & Nancy A Hartfiel | Semi-Annual Water Lease Pay | -4,969.90 | 3,303,458.43 |
| Check | 07/17/2023 | 36847 | Barbara A. Howard | Semi-Annual Water Lease Pay | -2,500.39 -1,694.49 | 3,300,958.04 3,299,263.55 |
| Check | 07/17/2023 | 36848 | Beth's Boys, LLC | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -1,694.49 -9,254.30 | 3,290,009.25 |
| Check | 07/17/2023 | 36849 | Bobby B. Allen | Semi Annual Water Lease Pay | -1,015.96 | 3,288,993.29 |
| Check | 07/17/2023 | 36850 36851 | Bobby W. Bibbs II Brauntex Materials IncWater | Semi-Annual Water Lease Pay | -9,774.09 | 3,279,219.20 |
| Check Check | 07/17/2023 07/17/2023 | 36852 | Brenda S. Robinson | Semi-Annual Water Lease Pay | -24,359,79 | 3,254,859.41 |
| Check | 07/17/2023 | 36853 | Carol Ann Lakey | Semi-Annual Water Lease Pay | -2,306.62 | 3,252,552.79 |
| Check | 07/17/2023 | 36854 | Chandra S. Katragadda | Semi-Annual Water Lease Pay | -6,386.96 | 3,246,165.83 |
| Check | 07/17/2023 | 36855 | Charles W. Cowey, Jr. | Semi-Annual Water Lease Pay | -9,923.40 | 3,236,242.43 |
| Check | 07/17/2023 | 36856 | Cheryl J. Moore | Semi-Annual Water Lease Pay | -8,880.99 | 3,227,361.44 |
| Check | 07/17/2023 | 36857 | Craig A. McClain | Semi-Annual Water Lease Pay | -1,268.22 | 3,226,093.22 |
| Check | 07/17/2023 | 36858 | D. Lee Edwards | Semi-Annual Water Lease Pay | -30,391.02 | 3,195,702.20 |
| Check | 07/17/2023 | 36859 | Darren & Laurie Yates | Semi-Annual Water Lease Pay | -1,380.69 | 3,194,321.51 |
| Check | 07/17/2023 | 36860 | Juan C. Rios & Debbie T. Rios | Semi-Annual Water Lease Pay | -4,551.06 -104.00 | 3,189,770.45 3,189,666.45 |
| Check | 07/17/2023 | 36861 | Deborah A. Mc Cabe | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -6,764.45 | 3,182,902.00 |
| Check | 07/17/2023 | 36862 36863 | Debra P. Springs Donald D. Dashiell | Semi-Annual Water Lease Pay | -7,862.14 | 3,175,039.86 |
| Check Check | 07/17/2023 07/17/2023 | 36864 | Douglas L Morton Exempt TR | Semi-Annual Water Lease Pay | -21,198.16 | 3,153,841.70 |
| Check | 07/17/2023 | 36865 | Edward & Adeline Zunker Fami | Semi-Annual Water Lease Pay | -1,010.24 | 3,152,831.46 |
| · | | | 45-47 (D. D. | | | |

CANYON REGIONAL WATER AUTHORITY Monthly General Account Check Register As of July 31, 2023

| Туре | Date | Num | Name | Memo | Amount | Balance |
|--------------------------|--------------------------|----------------|---|--|---------------------------|------------------------------|
| Obselv | 07/17/2023 | 36866 | Edward K Morton Exempt TR 2 | Semi-Annual Water Lease Pay | -21,198.16 | 3,131,633.30 |
| Check Check | 07/17/2023 | 36867 | Frost Bank Successor Trustee | Semi-Annual Water Lease Pay | -8,819.30 | 3,122,814.00 |
| Check | 07/17/2023 | 36868 | GRTR Ranch Properties | Semi-Annual Water Lease Pay | -4,740.58 -8,336.28 | 3,118,073.42 3,109,737.14 |
| Check | 07/17/2023 | 36869 | H. Paul Dingler, Sr. | Semi-Annual Water Lease Pay | -5,863.65 | 3,103,873.49 |
| Check | 07/17/2023 | 36870 | Harold E. Alves, Jr. | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -119,701.60 | 2,984,171.89 |
| Check | 07/17/2023 | 36871 | Hilmar D. Blumberg | Semi Annual Water Lease Pay | -143,842.80 | 2,840,329.09 |
| Check | 07/17/2023 | 36872 | Howard Williamson III Isom L. Cowey | Semi-Annual Water Lease Pay | -7,078.68 | 2,833,250.41 |
| Check | 07/17/2023 07/17/2023 | 36873 36874 | James and Janie Streety | Semi-Annual Water Lease Pay | -3,867.43 | 2,829,382.98 |
| Check Check | 07/17/2023 | 36875 | James M. McClain | Semi-Annual Water Lease Pay | -1,268.22 | 2,828,114.76 |
| Check | 07/17/2023 | 36876 | James D. Weidner · | Semi-Annual Water Lease Pay | -2,536.44 -16,756.12 | 2,825,578.32 2,808,822.20 |
| Check | 07/17/2023 | 36877 | Janelle Trammell | Semi-Annual Water Lease Pay | -1,026.34 | 2,807,795.86 |
| Check | 07/17/2023 | 36878 | Javier Jimenez | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -2,696.77 | 2,805,099.09 |
| Check | 07/17/2023 | 36879 | Javier Ramirez & Velma Monta Jay Patton White | Semi-Annual Water Lease Pay | -5,951.52 | 2,799,147.57 |
| Check | 07/17/2023 07/17/2023 | 36880 36881 | Jennifer S. McGee | Semi-Annual Water Lease Pay | -1,451.89 | 2,797,695.68 |
| Check Check | 07/17/2023 | 36882 | Jessie D. Perez, Jr. | Semi-Annual Water Lease Pay | -2,818.00 | 2,794,877.68 |
| Check | 07/17/2023 | 36883 | Jesus G. Tristan | Semi-Annual Water Lease Pay | -704.50 -232.46 | 2,794,173.18 2,793,940.72 |
| Check | 07/17/2023 | 36884 | Joan Torstrick | Semi-Annual Water Lease Pay | -13,250.11 | 2,780,690.61 |
| Check | 07/17/2023 | 36885 | John B. & Georgia A. Hernandez | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -10,289.30 | 2,770,401.31 |
| Check | 07/17/2023 | 36886 | John C. Pannell | Semi-Annual Water Lease Pay | -9,717.51 | 2,760,683.80 |
| Check | 07/17/2023 | 36887 36888 | John H. Brite John M. Cowey | Semi-Annual Water Lease Pay | -7,708.51 | 2,752,975.29 |
| Check | 07/17/2023 07/17/2023 | 36889 | Jordan T. Blumberg 1994 IRR | Semi-Annual Water Lease Pay | -23,772.18 | 2,729,203.11 |
| Check Check | 07/17/2023 | 36890 | Joseph Anthony Burris | Semi-Annual Water Lease Pay | -4,224.18 | 2,724,978.93 2,715,113.96 |
| Check | 07/17/2023 | 36891 | Joyce Soefje | Semi-Annual Water Lease Pay | -9,864.97 -143,842.80 | 2,713,113.90 |
| Check | 07/17/2023 | 36892 | Kelli Jo Volek | Semi Annual Water Lease Pay | -21,509.55 | 2,549,761.61 |
| Check | 07/17/2023 | 36893 | Larry & Alice Moltz | Semi-Annual Water Lease Pay Semi Annual Water Lease Pay | -7,352.75 | 2,542,408.86 |
| Check | 07/17/2023 | 36894 | Lawrence O. & Camille T. Sch Lerov John Skloss | Semi-Annual Water Lease Pay | -704.50 | 2,541,704.36 |
| Check | 07/17/2023 | 36895 36896 | Linda Lou Odom | Semi-Annual Water Lease Pay | -1,945.83 | 2,539,758.53 |
| Check | 07/17/2023 07/17/2023 | 36897 | Louie E. Soefje | Semi-Annual Water Lease Pay | -1,945.83 | 2,537,812.70 |
| Check Check | 07/17/2023 | 36898 | Luis or Carmen Rivera | Semi-Annual Water Lease Pay | -243.33 | 2,537,569.37 2,527,280.07 |
| Check | 07/17/2023 | 36899 | Luke W. Griffith | Semi-Annual Water Lease Pay | -10,289.30 -7,021.36 | 2,520,258.71 |
| Check | 07/17/2023 | 36900 | Marvin L. Miles | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -7,732.32 | 2,512,526.39 |
| Check | 07/17/2023 | 36901 | Mary Loma Dezell | Semi-Annual Water Lease Pay | -1,799.50 | 2,510,726.89 |
| Check | 07/17/2023 | 36902 36903 | Matthew J. Breidenbaugh Matthew L. Tenberg | Semi-Annual Water Lease Pay | -1,566.76 | 2,509,160.13 |
| Check | 07/17/2023 07/17/2023 | 36904 | Michael L. Cowey | Semi-Annual Water Lease Pay | -11,566.42 | 2,497,593.71 |
| Check Check | 07/17/2023 | 36905 | Mike W. Bond or Connie L. Bond | Semi-Annual Water Lease Pay | -20,256.28 | 2,477,337.43 2,476,772.60 |
| Check | 07/17/2023 | 36906 | Molly Neal Patteson | Semi-Annual Water Lease Pay | -564.83 -11,076.02 | 2,465,696.58 |
| Check | 07/17/2023 | 36907 | Mund Grandchildren's Trust of | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -1,694.49 | 2,464,002.09 |
| Check | 07/17/2023 | 36908 | Nelda J. Patteson Otto E. Soefie | Semi-Annual Water Lease Pay | -1,945.83 | 2,462,056.26 |
| Check | 07/17/2023 | 36909 36910 | Quest Trust FBO Sean M Hallo | Semi-Annual Water Lease Pay | -813.70 | 2,461,242.56 |
| Check | 07/17/2023 07/17/2023 | 36911 | Ray M. Brite | Semi-Annual Water Lease Pay | -10,570.66 | 2,450,671.90 |
| Check Check | 07/17/2023 | 36912 | Roger A. & Susan J. Edwards | Semi-Annual Water Lease Pay | -6,535.27 | 2,444,136.63 2,433,022.83 |
| Check | 07/17/2023 | 36913 | Spillers Farm & Ranch, LLC | Semi-Annual Water Lease Pay | -11,113.80 -23,772.18 | 2,409,250.65 |
| Check | 07/17/2023 | 36914 | Roland B. Blumberg 1994 IRR | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -5,080.24 | 2,404,170.41 |
| Check | 07/17/2023 | 36915 | Rolling Butler, LLC Shannon Harris | Semi Annual Water Lease Pay | -2,862.62 | 2,401,307.79 |
| Check | 07/17/2023 | 36916 36917 | Sidney Allen Littlefield | Semi-Annual Water Lease Pay | -96,418.57 | 2,304,889.22 |
| Check | 07/17/2023 07/17/2023 | 36918 | Thomas P. Taggart | Semi-Annual Water Lease Pay | -1,580.20 | 2,303,309.02 |
| Check Check | 07/17/2023 | 36919 | Truitt Land Holdings, LLC | Semi-Annual Water Lease Pay | -7,258.18 | 2,296,050.84 2,285,226.65 |
| Check | 07/17/2023 | 36920 | Wilbon P. Davis | Semi-Annual Water Lease Pay Semi-Annual Water Lease Pay | -10,824.19 -16,756.12 | 2,268,470.53 |
| Check | 07/17/2023 | 36921 | William Brent Christian | Semi-Annual Water Lease Pay | -21,778.28 | 2,246,692.25 |
| Check | 07/17/2023 | 36922 | William Ray Engvall William E. Pape | Semi-Annual Water Lease Pay | -6,964.48 | 2,239,727.77 |
| Check | 07/17/2023 | 36923 36924 | Willard James Stewart | Semi-Annual Water Lease Pay | -31,267.13 | 2,208,460.64 |
| Check Bill Pmt -Check | 07/17/2023 07/17/2023 | ACH | Verve Cloud, Inc. | Telephone | -364.64 | 2,208,096.00 |
| Deposit | 07/17/2023 | 71011 | **·· | Deposit | 383,860.82 | 2,591,956.82 2,591,944.90 |
| Bill Pmt -Check | 07/17/2023 | ACH | CPS - I 10 | I-10 Utilities | -11.92 -2,158.78 | 2,589,786.12 |
| Bill Pmt -Check | 07/19/2023 | ACH | AT&T Mobility | Funds Transfer | -44,958.43 | 2,544,827.69 |
| Transfer | 07/20/2023 | | | Funds Transfer | -28,559.65 | 2,516,268.04 |
| Transfer | 07/20/2023 | | | Funds Transfer | -53,348.21 | 2,462,919.83 |
| Transfer Transfer | 07/20/2023 07/20/2023 | | | Funds Transfer | -18,294.56 | 2,444,625.27 2,439,469.86 |
| Transfer | 07/20/2023 | | | Monthly Membrane Transfer | -5,155.41 | 2,399,471.46 |
| Transfer | 07/20/2023 | | | Monthly Membrane Transfer | -39,998.40 -148,238.65 | 2,251,232.81 |
| Transfer | 07/20/2023 | | | LD-Monthly Bond Payment Tra Bond Payment Transfer | -24,182.49 | 2,227,050.32 |
| Transfer | 07/20/2023 | | | MC-Bond Payment Transfer | -154,239.46 | 2,072,810.86 |
| Transfer | 07/20/2023 | | | Bond Payment Transfer | -553.23 | 2,072,257.63 |
| Transfer | 07/20/2023 07/20/2023 | | | Bond Payment Transfer | -33,386.91 | 2,038,870.72 |
| Transfer Transfer | 07/20/2023 | | | Bond Payment Transfer | -58,928.72 | 1,979,942.00 1,965,173.15 |
| Transfer | 07/20/2023 | | | Bond Payment Transfer | -14,768.85 -259,041.10 | 1,706,132.05 |
| Transfer | 07/20/2023 | | | Bond Payment Transfer Bond Payment Transfer | -249,466.88 | 1,456,665.17 |
| Transfer | 07/20/2023 | | | Bolla Laymont Transier | 3 N. | |
| | | | | | | |

CANYON REGIONAL WATER AUTHORITY Monthly General Account Check Register

| Туре | Date | Num | Name | Memo | Amount | Balance |
|------------------------------------|--------------------------|------------------|--|------------------------------|------------------------|------------------------------|
| Transfer | 07/20/2023 | | | Bond Payment Transfer | -98,519.91 | 1,358,145.26 |
| Transfer | 07/20/2023 | | | Bond Payment Transfer | -22,479.93 | 1,335,665.33 |
| Transfer | 07/20/2023 | | | Bond Payment Transfer | -9,982.18 | 1,325,683.15 |
| Transfer | 07/20/2023 | | | June Overages | -7.36 | 1,325,675.79 |
| Bill Pmt -Check | 07/20/2023 | ACH | Avesis | Employee Vision Insurance | -221.60 | 1,325,454.19 |
| Deposit | 07/20/2023 | | | Deposit | 939,093.32 | 2,264,547.51 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - Lake Dunlap | 05/25/2023-06/25/2023 | -67,982.72 | 2,196,564.79 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - Leissner Booster Stn #2 | 05/25/2023-06/25/2023 | -15,616.49 | 2,180,948.30 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - Leissner Rd Booster S | 05/25/2023-06/25/2023 | -14,789.21 | 2,166,159.09 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - Wagner Booster | 05/25/2023-06/25/2023 | -20,983.17 | 2,145,175.92 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - WR Plant | 05/25/2023-06/25/2023 | -17,156.26 | 2,128,019.66 |
| Bill Pmt -Check | 07/21/2023 | ACH | GVEC - WR Plant #2 | 05/25/2023-06/25/2023 | -20,533.59 | 2,107,486.07 |
| Bill Pmt -Check | 07/21/2023 | ACH | Bluebonnet Electric | HC Utilities - 5000057123 | -16,564.41 | 2,090,921.66 |
| Check | 07/21/2023 | 36969 | Texas Water Utilities Association | Membership-Armadillo | -210.00 | 2,090,711.66 |
| Bill Pmt -Check | 07/21/2023 | ACH | Texas Fleet Fuel | Vehicle/Equipment Fuel | -744.64 | 2,089,967.02 |
| Bill Pmt -Check | 07/21/2023 | 36970 | 5S Service Company LLC | HC Repairs-VFD for Sub Pump | -2,500.00 | 2,087,467.02 |
| Bill Pmt -Check | 07/21/2023 | 36971 | Aflac | Employee Voluntary Insurance | -1,161.36 | 2,086,305.66 |
| Bill Pmt -Check | 07/21/2023 | 36972 | Alliance Regional Water Autho | May - July 2023 Operations & | -1,247,081.00 | 839,224.66 |
| Bill Pmt -Check | 07/21/2023 | 36973 | Analytical Environmental Labor | Lab Testing | -540.00 | 838,684.66 |
| Bill Pmt -Check | 07/21/2023 | 36974 | Anytime Fuel Pros LLC | Diesel for Generators-HC | -567.94 | 838,116.72 |
| Bill Pmt -Check | 07/21/2023 | 36975 | Ardurra Group, Inc. | HCWTP Ozone Study | -13,684.76 | 824,431.96 |
| Bill Pmt -Check | 07/21/2023 | 36976 | Attorney R. L. Wilson | Legal Fees | -14,837.13 | 809,594.83 |
| Bill Pmt -Check | 07/21/2023 | 36977 | Avesis | Employee Vision Insurance | -230.07 | 809,364.76 |
| Bill Pmt -Check | 07/21/2023 | 36978 | Bleck Electric Company | Repairs | -5,024.00 | 804,340.76 |
| Bill Pmt -Check | 07/21/2023 | 36979 | Brenntag Southwest, Inc. | Chemicals | -7,345.73 | 796,995.03 |
| Bill Pmt -Check | 07/21/2023 | 36980 | Core & Main LP | Check Valves | -4,686.50 | 792,308.53 |
| Bill Pmt -Check Bill Pmt -Check | 07/21/2023 07/21/2023 | 36981 | Dex Imaging | Admin Copier | -719.81 | 791,588.72 |
| Bill Pmt -Check | 07/21/2023 | 36982 36983 | DPC Industries Cylinder Bental | Chlorine | -651.76 | 790,936.96 |
| Bill Pmt -Check | 07/21/2023 | 36984 | DPC Industries-Cylinder Rental Dynamic Mechanical Contracting | Cylinder Rental | -990.00 | 789,946.96 |
| Bill Pmt -Check | 07/21/2023 | 36985 | G.A. Powers Co. | Repairs @ 1604 Parts | -127.50 -372.63 | 789,819.46 |
| Bill Pmt -Check | 07/21/2023 | 36986 | Gallegos Engineering, Inc. | HC Transmission Main Single | -6,975.00 | 789,446.83 |
| Bill Pmt -Check | 07/21/2023 | 36987 | GBRA-Raw Water & TM | 12613 A/F @ \$165 & Raw Wat | -237,297.51 | 782,471.83 545,174.32 |
| Bill Pmt -Check | 07/21/2023 | 36988 | Gold Star Exterminators | Pest Control | -237,297.51 -415.00 | 544,759.32 |
| Bill Pmt -Check | 07/21/2023 | 36989 | Guadalupe-Blanco River Autho | Lab fees | -2,564.00 | 542,195.32 |
| Bill Pmt -Check | 07/21/2023 | 00000 | GVEC - Internet | QuickBooks generated zero a | 0.00 | 542,195.32 |
| Bill Pmt -Check | 07/21/2023 | 36990 | Hach Company | Lab Supplies | -5,530.62 | 536,664.70 |
| Bill Pmt -Check | 07/21/2023 | 36991 | Hawkins | Chemicals | -17,955.00 | 518,709.70 |
| Bill Pmt -Check | 07/21/2023 | 36992 | Ingersoll Rand Company | Compressor PM's | -4,386.22 | 514,323.48 |
| Bill Pmt -Check | 07/21/2023 | 36993 | Jimmy Flores. | Mileage Reimbursement | -311.13 | 514,012.35 |
| Bill Pmt -Check | 07/21/2023 | 36994 | Lhoist North America of Texas, | Lime | -6,573.12 | 507,439.23 |
| Bill Pmt -Check | 07/21/2023 | 36995 | New Braunfels Utilities | 46 Standpipe Utilities | -30.78 | 507,408.45 |
| Bill Pmt -Check | 07/21/2023 | 36996 | Verve Cloud, Inc. | Telephone | -365.24 | 507,043.21 |
| Bill Pmt -Check | 07/21/2023 | 36997 | Wastewater Transport Service | Sudge Removal | -9,196.62 | 497,846.59 |
| Check | 07/21/2023 | 36998 | Mary Harper | Bluebonnet Electric Easement | -1,000.00 | 496,846.59 |
| Bill Pmt -Check | 07/24/2023 | ACH | TML Health | VOID: Employee Health Insura | 0.00 | 496,846.59 |
| Deposit | 07/24/2023 | | | Deposit | 404,794.66 | 901,641.25 |
| Bill Pmt -Check | 07/24/2023 | ACH | CPS - 1518 | Utilities | -152.23 | 901,489.02 |
| Liability Check | 07/25/2023 | ACH | Texas Workforce Commission | 99-882188-6 | -4.51 | 901,484.51 |
| Check | 07/25/2023 | 37000 | Void | Void | 0.00 | 901,484.51 |
| Deposit | 07/25/2023 | | | Deposit | 332,048.08 | 1,233,532.59 |
| General Journal | 07/25/2023 | 07-03 | TML Health | TML Online ACH Payment Fee | -1.50 | 1,233,531.09 |
| Bill Pmt -Check | 07/26/2023 | ACH | CPS - 1604 | Utilities | -30,998.16 | 1,202,532.93 |
| Bill Pmt -Check | 07/26/2023 | 36999 | Humberto Ramos. | July Mileage | -655.66 | 1,201,877.27 |
| Paycheck | 07/26/2023 | 37001 | Ramos, Humberto | 74 0500000 | -11,998.05 | 1,189,879.22 |
| Liability Check | 07/26/2023 | EFTPS | US Treasury | 74-2586063 | -6,885.32 | 1,182,993.90 |
| Liability Check | 07/26/2023 | ACH | John Hancock | 401(k) Retirement Plan | -400.00 | 1,182,593.90 |
| Paycheck | 07/28/2023 07/28/2023 | Direct | Allman, Michael | | -2,847.68 | 1,179,746.22 |
| Paycheck Paycheck | 07/28/2023 | Direct Direct | Cruz, Edward D | | -1,470.80 | 1,178,275.42 |
| Paycheck | 07/28/2023 | Direct | Flores, Jimmy Kirkland, Debra M | | -2,436.22 | 1,175,839.20 1,174,184,61 |
| Paycheck | 07/28/2023 | Direct | McKnight III, John R. | | -1,654.59 -1,576.63 | |
| Paycheck | 07/28/2023 | Direct | Moreno, Joe | | -3,143.42 | 1,172,607.98 1,169,464.56 |
| Paycheck | 07/28/2023 | Direct | Powers, Frantiska A | | -1,626.49 | 1,167,838.07 |
| Paycheck | 07/28/2023 | Direct | Saldana, Michael A | | -1,621.52 | 1,166,216.55 |
| Paycheck | 07/28/2023 | Direct | Shirk, Austin | | -1,766.42 | 1,164,450.13 |
| Paycheck | 07/28/2023 | Direct | Sims, Clarissa R | | -1,793.74 | 1,162,656.39 |
| Paycheck | 07/28/2023 | Direct | Wallace, Russell L | | -2,145.86 | 1,160,510.53 |
| Paycheck | 07/28/2023 | Direct | Whitelatch, Jr., Richard L | | -1,591.84 | 1,158,918.69 |
| Paycheck | 07/28/2023 | Direct | Wilkinson, Joan A. | | -3,178.79 | 1,155,739.90 |
| Paycheck | 07/28/2023 | Direct | Kaufman, John M | | -4,723.69 | 1,151,016.21 |
| Paycheck | 07/28/2023 | Direct | McMullen, David W. | | -3,527.74 | 1,147,488.47 |
| Paycheck | 07/28/2023 | Direct | Ramos, Humberto | | -3,130.76 | 1,144,357.71 |
| Paycheck | 07/28/2023 | Direct | Telfer, Adam C | | -3,280.76 | 1,141,076.95 |
| Liability Check | 07/28/2023 | EFTPS | US Treasury | 74-2586063 | -15,604.44 | 1,125,472.51 |
| Liability Check | 07/28/2023 | ACH | John Hancock | 401(k) Retirement Plan | -1,263.18 | 1,124,209.33 |
| Liability Check | 07/28/2023 | 37002 | California State Disbursement | 20000001098628 | -449.07 | 1,123,760.26 |
| Liability Check | 07/28/2023 | 37003 | Office of the Attorney General | AG# 0012809999 | -489.69 | 1,123,270.57 |
| | | | | | | |

CANYON REGIONAL WATER AUTHORITY Monthly General Account Check Register As of July 31, 2023

| Type Date Num Name | Memo | Amount | Balance |
|---|--|--|--|
| Check 07/28/2023 37004 Charles C. Bailey Bill Pmt -Check 07/28/2023 37005 B&B Family Partnership Bill Pmt -Check 07/28/2023 37006 Brenntag Southwest, Inc. DPC Industries Bill Pmt -Check 07/28/2023 37007 DPC Industries Bill Pmt -Check 07/28/2023 37009 Frantiska Powers Bill Pmt -Check 07/28/2023 37010 Hawkins Bill Pmt -Check 07/28/2023 37011 Hofmann's Supply Bill Pmt -Check 07/28/2023 37011 Hofmann's Supply Bill Pmt -Check 07/28/2023 37013 Pollution Control Services Bill Pmt -Check 07/28/2023 37014 Standard Insurance Company Bill Pmt -Check 07/28/2023 37015 Trihydro Corporation Bill Pmt -Check 07/28/2023 37016 TX Health Benefits Pool Bill Pmt -Check 07/28/2023 37016 TX Health Benefits Pool Bill Pmt -Check 07/28/2023 37018 Michael C. Allman Bill Pmt -Check 07/28/2023 ACH TML Health General Journal 07/28/2023 07-04 TML Health Total 1006 · First United Checking #5207 Total 1001 · First United Bank TAL | Monthly Governmental Consult Baugh Water Lease 320 AF @ Chemicals Chemicals MX4800 Tractor PM Mileage Reimbursement Chemicals Nitrogen Lime Lab Testing Employee Life & LTD Insurance Wells Ranch Ill PER Employee Health Insurance VOID: Mileage & Supplies Rei Mileage & Supplies Reimb Employee Health Insurance TML Insurance ACH Payment Interest | -2,000.00 -2,000.00 -13,728.00 -3,988.56 -1,626.40 -137.55 -25,137.00 -36.01 -6,725.02 -1,922.00 -778.11 -6,013.75 -16,791.38 0.00 -327.43 -16,791.38 -1,50 910.95 -2,100,890.30 -2,100,890.30 | 1,121,270.57 1,119,270.57 1,105,542.57 1,101,554.01 1,099,927.61 1,099,790.06 1,074,653.06 1,074,617.05 1,065,970.03 1,065,970.03 1,065,191.92 1,059,178.17 1,042,386.79 1,042,386.79 1,042,059.36 1,025,266.48 1,026,177.43 1,026,177.43 1,026,177.43 |

Legal Fees by Payee October 2022 through July 2023

| Туре | Date | Num | Name | Memo | Amount | Balance |
|-------------------|---|------------------|-----------------------|---|------------|------------|
| Attorney R | . L. Wilson | | | | | |
| Bill | 12/31/2022 | 3586 | Attorney R. L. Wilson | September-December 2022 | 20,899.50 | 20,899.50 |
| Bill | 12/31/2022 | 3588 | Attorney R. L. Wilson | September-December 2022 | 5,282.25 | 26,181.75 |
| Bill | 12/31/2022 | 3587 | Attorney R. L. Wilson | September-December 2022 | 1,185.00 | 27,366.75 |
| Bill | 02/10/2023 | 3605 | Attorney R. L. Wilson | HC Pall Agreement | 2,190.00 | 29,556.75 |
| Bill | 02/10/2023 | 3607 | Attorney R. L. Wilson | LD Nanostone | 4,275.00 | 33,831.75 |
| Bill | 02/10/2023 | 3604 | Attorney R. L. Wilson | General Matters | 6,590.00 | 40,421.75 |
| Bill | 02/10/2023 | 3606 | Attorney R. L. Wilson | WR Generator Project | 3,143.95 | 43,565.70 |
| Bill | 02/28/2023 | 3629 | Attorney R. L. Wilson | General Matters | 6,645.00 | 50,210.70 |
| Bill | 02/28/2023 | 3630 | Attorney R. L. Wilson | HC Pall Agreement | 2,895.00 | 53,105.70 |
| Bill | 02/28/2023 | 3631 | Attorney R. L. Wilson | LD Nanostone | 3,028.42 | 56,134.12 |
| Bill | 02/28/2023 | 3632 | Attorney R. L. Wilson | WR Generator Project | 3,647.11 | 59,781.23 |
| Bill | 03/31/2023 | 3649 | Attorney R. L. Wilson | WR Generator Project | 2,925.00 | 62,706.23 |
| Bill | 03/31/2023 | 3648 | Attorney R. L. Wilson | Nanostone | 825.00 | 63,531.23 |
| Bill | 03/31/2023 | 3647 | Attorney R. L. Wilson | Pall Trailer | 405.00 | 63,936.23 |
| Bill | 03/31/2023 | 3646 | Attorney R. L. Wilson | General Matters-Policies | 7,995.00 | 71,931.23 |
| Bill | 04/30/2023 | 3666 | Attorney R. L. Wilson | HC WTP | 825.00 | 72,756.23 |
| | | 3665 | Attorney R. L. Wilson | Policy Committee & Contracts | 4,200.00 | 76,956.23 |
| Bill | 04/30/2023 | | Attorney R. L. Wilson | Policy Committee & Contracts | 2,280.00 | 79,236.23 |
| Bill | 04/30/2023 | 3665 | | Policy Committee & Contracts | 3,150.00 | 82,386.23 |
| Bill | 04/30/2023 | 3665 | Attorney R. L. Wilson | Wells Ranch | 5,720.88 | 88,107.11 |
| Bill | 04/30/2023 | 3667 | Attorney R. L. Wilson | Hays Caldwell Overages & Contract Amendment | 7,607.13 | 95,714.24 |
| Bill | 05/31/2023 | 3684 | Attorney R. L. Wilson | ## 10-100 NO 13-100 | 2,775.00 | 98,489.24 |
| Bill | 05/31/2023 | 3683 | Attorney R. L. Wilson | General Matters | 4,455.00 | 102,944.24 |
| Bill | 05/31/2023 | 3685 | Attorney R. L. Wilson | Wells Ranch | 4,455.00 | 102,344.24 |
| Total Attori | ney R. L. Wilson | n | | | 102,944.24 | 102,944.24 |
| Bryant Lav | N PC | | | | | |
| Bill | 07/31/2023 | 1790 | Bryant Law PC | RE: Louis Rosenberg | 3,863.45 | 3,863.45 |
| Bill | 07/31/2023 | 1791 | Bryant Law PC | RE: Louis Rosenberg | 1,320.00 | 5,183.45 |
| Bill | 07/31/2023 | 1792 | Bryant Law PC | RE: Louis Rosenberg | 3,974.90 | 9,158.35 |
| Bill | 07/31/2023 | 1793 | Bryant Law PC | RE: Louis Rosenberg | 3,750.00 | 12,908.35 |
| Total Bryan | | | | • | 12,908.35 | 12,908.35 |
| | D-11 | | | | | |
| Charles C | | 05000 | Observe O. Ballani | Monthly Governmental Consulting Services | 2,000.00 | 2,000.00 |
| Che | 10/28/2022 | 35928 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 4,000.00 |
| Che | 12/02/2022 | 36024 | Charles C. Bailey | | 2,000.00 | 6,000.00 |
| Che | 12/22/2022 | 36113 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 8,000.00 |
| Che | 02/03/2023 | 36315 | Charles C. Bailey | Monthly Governmental Consulting Services | | 10,000.00 |
| Che | 03/03/2023 | 36416 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | |
| Che | 03/29/2023 | 36511 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 12,000.00 |
| Che | 04/28/2023 | 36618 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 14,000.00 |
| Che | 05/26/2023 | 36716 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 16,000.00 |
| Che | 06/30/2023 | 36824 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 18,000.00 |
| Che | 07/28/2023 | 37004 | Charles C. Bailey | Monthly Governmental Consulting Services | 2,000.00 | 20,000.00 |
| Total Char | les C. Bailey | | | | 20,000.00 | 20,000.00 |
| Emmlayer | Council | | | | | |
| Employers Bill | 04/19/2023 | 461185 | Employers Council | Legal Services-Employee Policy Manual | 810.00 | 810.00 |
| 95 | oyers Council | | | | 810.00 | 810.00 |
| Louis T. R | TO 10 10 10 10 10 10 10 10 10 10 10 10 10 | D DAMPS AND A CO | | S. S | 4 444 00 | 4 444 00 |
| Bill | 10/31/2022 | 5005 | Louis T. Rosenberg | Personnel Matters | 1,114.00 | 1,114.00 |
| Bill | 10/31/2022 | 5006 | Louis T. Rosenberg | Policy & Legislation Committee | 5,733.76 | 6,847.76 |
| Bill | 10/31/2022 | 5004 | Louis T. Rosenberg | Nanostone Contract | 264.00 | 7,111.76 |
| Bill | 10/31/2022 | 5007 | Louis T. Rosenberg | SAWS Contract Attorney Inquiry | 2,521.00 | 9,632.76 |
| Bill | 10/31/2022 | 5002 | Louis T. Rosenberg | Construction Committee | 1,749.63 | 11,382.39 |
| Bill | 10/31/2022 | 5001 | Louis T. Rosenberg | Bolton Road Meter Station | 179.50 | 11,561.89 |
| Bill | 10/31/2022 | 5003 | Louis T. Rosenberg | General Matters | 5,794.63 | 17,356.52 |
| Bill | 11/30/2022 | 5080 | Louis T. Rosenberg | Wheeling Agreement | 302.50 | 17,659.02 |
| Bill | 11/30/2022 | 5074 | Louis T. Rosenberg | HC Contract Water Rights Issues | 2,089.50 | 19,748.52 |
| Bill | 11/30/2022 | 5072 | Louis T. Rosenberg | Construction Committee | 385.00 | 20,133.52 |
| Bill | 11/30/2022 | 5077 | Louis T. Rosenberg | Policy & Legislation Committee | 7,344.56 | 27,478.08 |
| Bill | 11/30/2022 | 5075 | Louis T. Rosenberg | Nanostone Contract | 1,012.50 | 28,490.58 |
| Bill | 11/30/2022 | 5078 | Louis T. Rosenberg | SAWS Water Contract | 152.00 | 28,642.58 |
| Bill | 11/30/2022 | 5076 | Louis T. Rosenberg | Personnel Matters | 6,115.00 | 34,757.58 |
| Bill | 11/30/2022 | 5073 | Louis T. Rosenberg | General Matters | 6,266.13 | 41,023.71 |
| OIII | . 1/00/2022 | | | CONTRACTOR OF THE PROPERTY OF | N | |

Legal Fees by Payee October 2022 through July 2023

| Туре | Date | Num | Name | Memo | Amount | Balance |
|-------|----------------|------|--------------------|--------------------------------|------------|------------|
| Bill | 12/31/2022 | 5152 | Louis T. Rosenberg | General Matters | 1,188.00 | 42,211.71 |
| Bill | 12/31/2022 | 5152 | Louis T. Rosenberg | Construction Committee | 380.00 | 42,591.71 |
| Bill | 12/31/2022 | 5151 | Louis T. Rosenberg | WR Generators | 3,980.00 | 46,571.71 |
| Bill | 12/31/2022 | 5158 | Louis T. Rosenberg | Wheeling Agreement | 609.00 | 47,180.71 |
| Bill | 12/31/2022 | 5154 | Louis T. Rosenberg | Personnel Matters | 778.00 | 47,958.71 |
| Bill | 12/31/2022 | 5155 | Louis T. Rosenberg | Policy & Legislation Committee | 3,575.76 | 51,534.47 |
| Bill | 12/31/2022 | 5156 | Louis T. Rosenberg | SAWS | 1,316.50 | 52,850.97 |
| Bill | 12/31/2022 | 5153 | Louis T. Rosenberg | HC Water Rights Issues | 3,003.00 | 55,853.97 |
| Bill | 12/31/2022 | 5157 | Louis T. Rosenberg | Wells Ranch Phase II | 1,155.00 | 57,008.97 |
| Bill | 01/31/2023 | 5215 | Louis T. Rosenberg | Legislation | 632.50 | 57,641.47 |
| Bill | 01/31/2023 | 5217 | Louis T. Rosenberg | SAWS Water Contract | 803.50 | 58,444.97 |
| Bill | 01/31/2023 | 5216 | Louis T. Rosenberg | Policy Committee | 7,568.90 | 66,013.87 |
| Bill | 01/31/2023 | 5212 | Louis T. Rosenberg | WR Generator Contract | 3,777.50 | 69,791.37 |
| Bill | 01/31/2023 | 5213 | Louis T. Rosenberg | General Matters | 2,007.95 | 71,799.32 |
| Bill | 01/31/2023 | 5214 | Louis T. Rosenberg | HC Wheeling Agreement | 6,050.50 | 77,849.82 |
| Bill | 02/28/2023 | 5285 | Louis T. Rosenberg | General Matters | 4,807.45 | 82,657.27 |
| Bill | 02/28/2023 | 5283 | Louis T. Rosenberg | Construction Committee | 1,186.50 | 83,843.77 |
| Bill | 02/28/2023 | 5288 | Louis T. Rosenberg | Nanostone | 4,227.50 | 88,071.27 |
| Bill | 02/28/2023 | 5287 | Louis T. Rosenberg | Legislation | 1,605.00 | 89,676.27 |
| Bill | 02/28/2023 | 5289 | Louis T. Rosenberg | Policy Committee | 6,806.85 | 96,483.12 |
| Bill | 02/28/2023 | 5290 | Louis T. Rosenberg | SAWS | 2,748.50 | 99,231.62 |
| Bill | 02/28/2023 | - | Louis T. Rosenberg | HC Wheeling Agreement | 813.50 | 100,045.12 |
| Bill | 02/28/2023 | 5284 | Louis T. Rosenberg | WR Generator | 3,251.06 | 103,296.18 |
| Bill | 03/31/2023 | 5357 | Louis T. Rosenberg | WR Generator Project | 1,619.50 | 104,915.68 |
| Bill | 03/31/2023 | 5356 | Louis T. Rosenberg | Construction Committee | 812.00 | 105,727.68 |
| Bill | 03/31/2023 | 5358 | Louis T. Rosenberg | Funding Opportunities | 475.50 | 106,203.18 |
| Bill | 03/31/2023 | 5354 | Louis T. Rosenberg | Policy Committee | 1,508.75 | 107,711.93 |
| Bill | 03/31/2023 | 5355 | Louis T. Rosenberg | Crystal Clear/CRWA Agreement | 549.00 | 108,260.93 |
| Bill | 03/31/2023 | 5360 | Louis T. Rosenberg | Wheeling Agreement | 448.00 | 108,708.93 |
| Bill | 03/31/2023 | 5361 | Louis T. Rosenberg | Legislation | 2,356.00 | 111,064.93 |
| Bill | 03/31/2023 | 5362 | Louis T. Rosenberg | Nanostone | 1,241.50 | 112,306.43 |
| Bill | 03/31/2023 | 5363 | Louis T. Rosenberg | Policy Committee | 7,654.30 | 119,960.73 |
| Bill | 03/31/2023 | 5365 | Louis T. Rosenberg | SAWS | 1,124.50 | 121,085.23 |
| Bill | 03/31/2023 | 5364 | Louis T. Rosenberg | Retail Service Issues | 1,640.00 | 122,725.23 |
| Bill | 03/31/2023 | 5359 | Louis T. Rosenberg | General Matters | 5,535.95 | 128,261.18 |
| Bill | 04/30/2023 | 5434 | Louis T. Rosenberg | GCUWCD Export Fee | 251.50 | 128,512.68 |
| Bill | 04/30/2023 | 5431 | Louis T. Rosenberg | Legislation | 4,043.50 | 132,556.18 |
| Bill | 04/30/2023 | 5433 | Louis T. Rosenberg | Wells Ranch III | 334.00 | 132,890.18 |
| Bill | 04/30/2023 | 5427 | Louis T. Rosenberg | Crystal Clear/CRWA Agreement | 334.00 | 133,224.18 |
| Bill | 04/30/2023 | 5428 | Louis T. Rosenberg | Shannon-Monk | 821.00 | 134,045.18 |
| Bill | 04/30/2023 | 5432 | Louis T. Rosenberg | Policy Committee | 3,793.45 | 137,838.63 |
| Bill | 04/30/2023 | 5430 | Louis T. Rosenberg | Hays Caldwell | 2,786.00 | 140,624.63 |
| Bill | 04/30/2023 | 5429 | Louis T. Rosenberg | General Matters | 3,515.45 | 144,140.08 |
| Bill | 05/31/2023 | 5491 | Louis T. Rosenberg | Shannon-Monk | 82.50 | 144,222.58 |
| Bill | 05/31/2023 | 5493 | Louis T. Rosenberg | HC Wheeling Contract | 4,000.00 | 148,222.58 |
| Bill | 05/31/2023 | 5494 | Louis T. Rosenberg | Policy Committee | 3,822.90 | 152,045.48 |
| Bill | 05/31/2023 | 5492 | Louis T. Rosenberg | General Matters | 4,725.50 | 156,770.98 |
| Bill | 06/30/2023 | 5558 | Louis T. Rosenberg | General Matters | 3,358.40 | 160,129.38 |
| Bill | 06/30/2023 | 5559 | Louis T. Rosenberg | HC Wheeling Agreements | 196.50 | 160,325.88 |
| Bill | 06/30/2023 | 5557 | Louis T. Rosenberg | Construction Committee | 330.00 | 160,655.88 |
| Bill | 06/30/2023 | 5560 | Louis T. Rosenberg | Legislation | 156.00 | 160,811.88 |
| Bill | 06/30/2023 | 5561 | Louis T. Rosenberg | Policy Committee | 5,097.95 | 165,909.83 |
| | s T. Rosenberg | ı | | | 165,909.83 | 165,909.83 |
| TOTAL | | | | | 302,572.42 | 302,572.42 |
| | | | | | | |

Legal Fees by Category October 2022 through July 2023

| Туре | Date | Num | Name | Memo | Amount |
|---------------|--------------------------|--------------|---|---|----------------------|
| Other Charges | 3 | | | | |
| | ofessional fees | | | | |
| Contrac | | 5004 | | N | 004.00 |
| Bill | 10/31/2022 | 5004 | Louis T. Rosenberg | Nanostone Contract | 264.00 |
| Bill Bill | 10/31/2022 11/30/2022 | 5007 5080 | Louis T. Rosenberg Louis T. Rosenberg | SAWS Contract Attorney Inquiry Wheeling Agreement | 2,521.00 302.50 |
| Bill | 11/30/2022 | 5075 | Louis T. Rosenberg | Nanostone Contract | 1,012.50 |
| Bill | 11/30/2022 | 5078 | Louis T. Rosenberg | SAWS Water Contract | 152.00 |
| Bill | 12/31/2022 | 5158 | Louis T. Rosenberg | Wheeling Agreement | 609.00 |
| Bill | 12/31/2022 | 5156 | Louis T. Rosenberg | SAWS | 1,316.50 |
| Bill | 12/31/2022 | 3587 | Attorney R. L. Wilson | September-December 2022 | 1,185.00 |
| Bill | 01/31/2023 | 5217 | Louis T. Rosenberg | SAWS Water Contract | 803.50 |
| Bill | 01/31/2023 | 5214 | Louis T. Rosenberg | HC Wheeling Agreement | 6,050.50 |
| Bill | 02/10/2023 | 3605 | Attorney R. L. Wilson | HC Pall Agreement | 2,190.00 |
| Bill | 02/10/2023 | 3607 | Attorney R. L. Wilson | LD Nanostone | 4,275.00 |
| Bill | 02/10/2023 | 3606 | Attorney R. L. Wilson | WR Generator Project | 3,143.95 |
| Bill Bill | 02/28/2023 02/28/2023 | 5288 5290 | Louis T. Rosenberg Louis T. Rosenberg | Nanostone SAWS | 4,227.50 2,748.50 |
| Bill | 02/28/2023 | 5290 | Louis T. Rosenberg | HC Wheeling Agreement | 813.50 |
| Bill | 02/28/2023 | 5284 | Louis T. Rosenberg | WR Generator | 3,251.06 |
| Bill | 02/28/2023 | 3630 | Attorney R. L. Wilson | HC Pall Agreement | 2,895.00 |
| Bill | 02/28/2023 | 3631 | Attorney R. L. Wilson | LD Nanostone | 3,028.42 |
| Bill | 03/31/2023 | 5355 | Louis T. Rosenberg | Crystal Clear/CRWA Agreement | 549.00 |
| Bill | 03/31/2023 | 5360 | Louis T. Rosenberg | Wheeling Agreement | 448.00 |
| Bill | 03/31/2023 | 5362 | Louis T. Rosenberg | Nanostone | 1,241.50 |
| Bill | 03/31/2023 | 5365 | Louis T. Rosenberg | SAWS | 1,124.50 |
| Bill | 03/31/2023 | 5364 | Louis T. Rosenberg | Retail Service Issues | 1,640.00 |
| Bill | 03/31/2023 | 3648 | Attorney R. L. Wilson | Nanostone Pall Trailer | 825.00 405.00 |
| Bill Bill | 03/31/2023 04/30/2023 | 3647 5427 | Attorney R. L. Wilson Louis T. Rosenberg | Crystal Clear/CRWA Agreement | 334.00 |
| Bill | 04/30/2023 | 5430 | Louis T. Rosenberg | Hays Caldwell | 2,786.00 |
| Bill | 04/30/2023 | 3666 | Attorney R. L. Wilson | HC WTP | 825.00 |
| Bill | 04/30/2023 | 3665 | Attorney R. L. Wilson | Policy Committee & Contracts | 3,150.00 |
| Bill | 05/31/2023 | 5493 | Louis T. Rosenberg | HC Wheeling Contract | 4,000.00 |
| Bill | 05/31/2023 | 3684 | Attorney R. L. Wilson | Hays Caldwell Overages & Co | 7,607.13 |
| Bill | 06/30/2023 | 5559 | Louis T. Rosenberg | HC Wheeling Agreements | 196.50 |
| Bill | 07/31/2023 | 1791 | Bryant Law PC | Hays Caldwell | 1,320.00 |
| Bill | 07/31/2023 | 1793 | Bryant Law PC | Water Contracts | 3,750.00 |
| Total Co | ontracts | | | | 70,991.06 |
| Person | nel | | | | |
| Bill | 10/31/2022 | 5005 | Louis T. Rosenberg | Personnel Matters | 1,114.00 |
| Bill | 11/30/2022 | 5076 | Louis T. Rosenberg | Personnel Matters | 6,115.00 |
| Bill | 12/31/2022 | 5154 | Louis T. Rosenberg | Personnel Matters | 778.00 |
| T-4-1 D- | | | | _ | 8,007.00 |
| Total Pe | ersonnel | | | | 0,007.00 |
| Commi | ttee Matters | | | | |
| Bill | 10/31/2022 | 5006 | Louis T. Rosenberg | Policy & Legislation Committee | 5,733.76 |
| Bill | 10/31/2022 | 5002 | Louis T. Rosenberg | Construction Committee | 1,749.63 |
| Bill | 11/30/2022 | 5072 | Louis T. Rosenberg | Construction Committee | 385.00 |
| Bill | 11/30/2022 | 5077 | Louis T. Rosenberg | Policy & Legislation Committee | 7,344.56 |
| Bill | 12/31/2022 | EAEE | Louis T. Rosenberg | Construction Committee Policy & Legislation Committee | 380.00 3,575.76 |
| Bill Bill | 12/31/2022 01/31/2023 | 5155 5216 | Louis T. Rosenberg Louis T. Rosenberg | Policy Committee | 7,568.90 |
| Bill | 02/28/2023 | 5283 | Louis T. Rosenberg | Construction Committee | 1,186.50 |
| Bill | 02/28/2023 | 5289 | Louis T. Rosenberg | Policy Committee | 6,806.85 |
| Bill | 03/31/2023 | 5356 | Louis T. Rosenberg | Construction Committee | 812.00 |
| Bill | 03/31/2023 | 5354 | Louis T. Rosenberg | Policy Committee | 1,508.75 |
| Bill | 03/31/2023 | 5363 | Louis T. Rosenberg | Policy Committee | 7,654.30 |
| Bill | 04/19/2023 | 461185 | Employers Council | Legal Services-Employee Poli | 810.00 |
| Bill | 04/30/2023 | 5432 | Louis T. Rosenberg | Policy Committee | 3,793.45 |
| Bill | 04/30/2023 | 3665 | Attorney R. L. Wilson | Policy Committee & Contracts | 4,200.00 |
| Bill | 05/31/2023 | 5494 | Louis T. Rosenberg | Policy Committee | 3,822.90 |
| Bill | 05/31/2023 | 5492 | Louis T. Rosenberg | General Matters Construction Committee | 4,725.50 330.00 |
| Bill | 06/30/2023 | 5557 | Louis T. Rosenberg | Constituction Committee | 330.00 |

Legal Fees by Category October 2022 through July 2023

| Туре | Date | Num | Name | Memo | Amount |
|----------------|--------------------------|---------------|---|--|-----------------------|
| Bill Bill | 06/30/2023 07/31/2023 | 5561 1792 | Louis T. Rosenberg Bryant Law PC | Policy Committee RE: Louis Rosenberg | 5,097.95 3,974.90 |
| Total C | ommittee Matters | | | | 71,460.71 |
| Wells I | Ranch | | | | |
| Bill | 12/31/2022 | 5151 | Louis T. Rosenberg | WR Generators | 3,980.00 |
| Bill | 12/31/2022 | 5157 | Louis T. Rosenberg | Wells Ranch Phase II | 1,155.00 |
| Bill | 12/31/2022 | 3588 | Attorney R. L. Wilson | September-December 2022 | 5,282.25 |
| Bill | 01/31/2023 | 5212 | Louis T. Rosenberg | WR Generator Contract | 3,777.50 |
| Bill | 02/28/2023 | 3632 | Attorney R. L. Wilson | WR Generator Project | 3,647.11 |
| Bill | 03/31/2023 | 5357 | Louis T. Rosenberg | WR Generator Project | 1,619.50 2,925.00 |
| Bill | 03/31/2023 | 3649 | Attorney R. L. Wilson | WR Generator Project GCUWCD Export Fee | 251.50 |
| Bill | 04/30/2023 | 5434 | Louis T. Rosenberg Louis T. Rosenberg | Wells Ranch III | 334.00 |
| Bill | 04/30/2023 | 5433 5428 | Louis T. Rosenberg | Shannon-Monk | 821.00 |
| Bill Bill | 04/30/2023 04/30/2023 | 3667 | Attorney R. L. Wilson | Wells Ranch | 5,720.88 |
| Bill | 05/31/2023 | 5491 | Louis T. Rosenberg | Shannon-Monk | 82.50 |
| Bill | 05/31/2023 | 3685 | Attorney R. L. Wilson | Wells Ranch | 4,455.00 |
| Total W | lells Ranch | | | | 34,051.24 |
| Genera | al | | | | |
| Bill | 10/31/2022 | 5001 | Louis T. Rosenberg | Bolton Road Meter Station | 179.50 |
| Bill | 10/31/2022 | 5003 | Louis T. Rosenberg | General Matters | 5,794.63 |
| Bill | 11/30/2022 | 5073 | Louis T. Rosenberg | General Matters | 6,266.13 |
| Bill | 12/31/2022 | 5152 | Louis T. Rosenberg | General Matters September-December 2022 | 1,188.00 20,899.50 |
| Bill | 12/31/2022 | 3586 | Attorney R. L. Wilson | General Matters | 2,007.95 |
| Bill | 01/31/2023 | 5213 3604 | Louis T. Rosenberg Attorney R. L. Wilson | General Matters | 6,590.00 |
| Bill | 02/10/2023 | 5285 | Louis T. Rosenberg | General Matters | 4,807.45 |
| Bill Bill | 02/28/2023 02/28/2023 | 3629 | Attorney R. L. Wilson | General Matters | 6,645.00 |
| Bill | 03/31/2023 | 5358 | Louis T. Rosenberg | Funding Opportunities | 475.50 |
| Bill | 03/31/2023 | 5359 | Louis T. Rosenberg | General Matters | 5,535.95 |
| Bill | 03/31/2023 | 3646 | Attorney R. L. Wilson | General Matters-Policies | 7,995.00 |
| Bill | 04/30/2023 | 5429 | Louis T. Rosenberg | General Matters | 3,515.45 |
| Bill | 04/30/2023 | 3665 | Attorney R. L. Wilson | Policy Committee & Contracts | 2,280.00 |
| Bill | 05/31/2023 | 3683 | Attorney R. L. Wilson | General Matters | 2,775.00 |
| Bill | 06/30/2023 | 5558 | Louis T. Rosenberg | General Matters | 3,358.40 |
| Bill | 07/31/2023 | 1790 | Bryant Law PC | RE: Louis Rosenberg | 3,863.45 |
| Total G | General | | | | 84,176.91 |
| Water Bill | Rights 11/30/2022 | 5074 | Louis T. Rosenberg | HC Contract Water Rights Iss | 2,089.50 |
| Bill | 12/31/2022 | 5153 | Louis T. Rosenberg | HC Water Rights Issues | 3,003.00 |
| Total V | Vater Rights | | | | 5,092.50 |
| Legisla | | | | | 2 222 22 |
| Check | 10/28/2022 | 35928 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Check | 12/02/2022 | 36024 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Check | 12/22/2022 | 36113 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 632.50 |
| Bill | 01/31/2023 | 5215 | Louis T. Rosenberg | Legislation | 2,000.00 |
| Check | 02/03/2023 | 36315 | Charles C. Bailey Louis T. Rosenberg | Monthly Governmental Consul Legislation | 1,605.00 |
| Bill | 02/28/2023 | 5287 36416 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Check Check | 03/03/2023 03/29/2023 | 36511 | Charles C. Bailey Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Bill | 03/31/2023 | 5361 | Louis T. Rosenberg | Legislation | 2,356.00 |
| Check | 04/28/2023 | 36618 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Bill | 04/20/2023 | 5431 | Louis T. Rosenberg | Legislation | 4,043.50 |
| Check | 05/26/2023 | 36716 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| Check | 06/30/2023 | 36824 | Charles C. Bailey | Monthly Governmental Consul | 2,000.00 |
| | | | 3277 | | |

Legal Fees by Category October 2022 through July 2023

| Туре | Date | Num | Name | Memo | Amount |
|---------------------------------|--------------------------|---------------|---|---|--------------------|
| Bill Check | 06/30/2023 07/28/2023 | 5560 37004 | Louis T. Rosenberg Charles C. Bailey | Legislation Monthly Governmental Consul | 156.00 2,000.00 |
| Total Le | Total Legislation | | | | |
| Total Legal & professional fees | | | | | 302,572.42 |
| Total Other Charges | | | | | 302,572.42 |
| TOTAL | | | | - | 302,572.42 |

Wells Ranch Project - Phase II Bond Series 2015 Budget vs. Actual July 31, 2023

| | | TOTAL | | |
|----|---|------------------------------|-----------------------------|-------------------|
| | | BUDGET | DISBURSEMENTS | Complete |
| | | | 40 000 000 00 | 100.00% |
| | Wells Ranch Series 2015 Bond Proceeds | 42,000,000.00 | 42,000,000.00 420,840.00 | 100.009 |
| | Bond Issue Costs | 420,840.00 1,664,000.00 | 1,664,000.00 | 100.00% |
| 1 | Capitalized Interest | 39,915,160.00 | 39,915,160.00 | 100.009 |
| + | Beginning Cash Available for Project | 39,913,100.00 | 39,910,100.00 | 100.007 |
| - | Preliminary Engineering Report | 25,000.00 | 25,000.00 | 100.00% |
| | Environmental Services | 54,080.82 | 54,080.82 | 100.00% |
| | Engineering Add'I Services (RCE Inspections) | 317,067.50 | 317,067.50 | 100.00% |
| | Inspection Services (HOT) | 37,510.00 | 37,510.00 | 100.00% |
| | SCADA Engineering Services | 50,000.00 22,940.45 | 50,000.00 22,940,45 | 100.00% |
| _ | Legal Notices Prof Services-TWDB Assistance | 15,887,86 | 15,887.86 | 100.009 |
| + | Santa Clara Road TM | 4,545,112.65 | 4,545,112.65 | 100,009 |
| + | Crystal Clear TM | 3,102,090.36 | 3,102,090.36 | 100.009 |
| - | Wagner Booster Station Expansion | 4,472,598.27 | 4,472,598.25 | 100.00% |
| | Wells Ranch Plant Improvements | 7,678,408.73 | 7,678,407.73 | 100.00% |
| 1 | Leissner Booster Station Imp. | | | |
| | Legal Fees | 110,925.31 | 110,925.31 | 100.00% |
| | Basic Engineering Services | 227,160.00 | 227,160.00 | 100.00% 96,39% |
| | Engineering Add'l Services | 50,078.25 | 48,272.75 1,533,365.90 | 100.009 |
| | Construction Costs - 2 MG Tank (Preload) | 1,533,365.90 1,185,478.00 | 1,533,365.90 | 100.009 |
| | Construction Costs - Facility (Payton) SCADA | 16,000.00 | 16,000.00 | 100.009 |
| - | Total Leissner Booster Stn Expansion | 3,123,007.46 | 3,121,201.96 | 99.949 |
| - | Oak Tree Elevated Storage Tank | 2,778,256.00 | 2,778,256.02 | 100.009 |
| +- | Well Field (7 wells) | 10,812,545.17 | 10,812,544.67 | 100.00% |
| | | | | |
| | Generator Installation Project | | | 100 000 |
| | Legal, Consultant Fees | 55,240.83 | 55,240.83 | 100.00% |
| | Legal Notices | 5,864.16 | 5,864.16 172,822.00 | 100.00% 85.00% |
| | Basic Engineering Services | 203,320.00 9,000.00 | 9,000.00 | 100.00% |
| | Engineering Add'l Services Deadman Well Site | 9,000.00 | 3,000,00 | 100.007 |
| - | Generator Cost | 71,265.00 | 54,522.00 | 76.519 |
| - | Generator Installation | 205,000.00 | 181,827.00 | 88.70% |
| - | Total Deadman Well Site | 276,265.00 | 236,349.00 | 85.55% |
| _ | Deer Stand Well Site | | | |
| 1 | Generator Cost | 71,265.00 | 54,522.00 | 76.519 |
| | Generator Installation | 205,000.00 | 181,826.60 | 88.70% |
| | Total Deer Stand Well Site | 276,265.00 | 236,348.60 | 85.55% |
| | Wells Ranch WTP Site | 217.007.00 | 040.740.00 | 76.519 |
| | Generator Cost-WTP | 317,295.00 279,140.00 | 242,748.90 213,559.37 | 76.519 |
| _ | Generator Cost-MCC-2 | 414,350.00 | 368,178.12 | 88.86% |
| _ | Generator Installation-WTP Generator Installation-MCC-2 | 378,140.00 | 337,062.06 | 89,149 |
| - | Total Wells Ranch WTP Site | 1,388,925.00 | 1,161,548.45 | 83.639 |
| + | Leissner BPS Site | .,, | | |
| + | Generator Cost | 212,200.00 | 162,343.80 | 76.519 |
| _ | Generator Installation | 342,000.00 | 302,473.26 | 88.449 |
| | Total Leissner BPS Site | 554,200.00 | 464,817.06 | 83.879 |
| | Wagner Booster Station | | | |
| | Generator Cost | 212,200.00 | 162,343.80 | 76.519 |
| | Generator Installation | 263,000.00 | 232,034.40 | 88.239 82.999 |
| | Total Wagner Booster Station | 475,200.00 71,710.00 | 394,378.20 54,862.65 | 76,519 |
| + | Well #5 & Well #13 Generator Cost | 119,000.00 | 96,390.00 | 81.009 |
| - | Mobilization, Bonds & Insurance | 3,434,989.99 | 2,887,620.95 | 84.069 |
| + | Total Generator Installation Project | 0,707,000.00 | 2,500,700,000 | 2,,,30, |
| + | Total Phase II - 2015 | 40,469,495.26 | 39,920,319.22 | 98.649 |
| # | Unallocated Contingency | -554,335.26 | | |
| + | Unanocated Contingency | 30 1,000 140 | | |
| _ | Total Expenditures | | 39,920,319.22 | |
| | Interest Income | 431,899.13 | 438,079.29 | - |
| | Cash from General Funds | 58,146.57 | 58,146.57 | |
| | Cash from General Funds | 64,289.56 | 0.00 | |

9:37 AM

08/28/23

Accrual Basis

Wells Ranch Phase II - 2015 Account Activity

As of July 31, 2023

| | Туре | Date | Num | Name | Memo | Split | Amount | Balance |
|-----------------------|----------------|------------------|-----|------|----------|-----------------|----------|--------------------------|
| BOKF, NA, Deposit | Austin - Esci | ow 07/03/2023 | | | Interest | Interest Income | 463.64 | 123,957.01 124,420.65 |
| Total BOKF | , NA, Austin - | Escrow | | | | | 463.64 | 124,420.65 |
| Logic-Cons Deposit | struction Acc | t 07/31/2023 | | | Interest | Interest Income | 1,642.12 | 365,003.87 366,645.99 |
| Total Logic- | Construction A | Acct | | | | | 1,642.12 | 366,645.99 |
| TOTAL | | | | | | _ | 2,105.76 | 491,066.64 |
| | | | | | | = | | |

Hays Caldwell WTP Improvements Budget vs. Actual July 31, 2023

| | TOTAL | TOTAL | |
|--|---------------|---------------|---|
| | BUDGET | DISBURSEMENTS | <u>%</u> |
| | | | |
| Hays Caldwell Series 2017 Bond Net Proceeds | 4,801,596.00 | 4,801,596.00 | 100.00% |
| Hays Caldwell Series 2021 Bond Net Proceeds | 12,355,000.00 | 12,355,000.00 | 100.00% |
| City of San Marcos Cash Contribution | 511,593.00 | 511,593.00 | 100.00% |
| City of San Marcos Cash Contribution | 4,634,982.00 | 4,634,982.00 | 100.00% |
| Beginning Cash Available for Project | 22,303,171.00 | 22,303,171.00 | 100.00% |
| Degining dash Available for 1 19,000 | | | |
| and Purchase - 2.009 Acres | 555,628.44 | 555,628.44 | 100.00% |
| | | | |
| TWDB D-Fund Application Services | 35,700.00 | 35,700.00 | 100.00% |
| HMGP Application | 12,000.00 | 12,000.00 | 100.00% |
| Basic Engineering Services: | | | |
| Prelminary Phase | 403,700.00 | 403,700.00 | 100.00% |
| Design Phase | 728,400.00 | 728,400.00 | 100.00% |
| Bid Phase | 73,900.00 | | 0.00% |
| Construction Phase | 458,800.00 | | 0.00% |
| Total Basic Engineering Services | 1,664,800.00 | 1,132,100.00 | 68.00% |
| | | | NAME OF TAXABLE PARTY. |
| Additional Engineering Services: | | | |
| Environmental Review & Permitting | 121,200.00 | 107,838.80 | 88.98% |
| Topographic Survey | 36,900.00 | 32,950.00 | 89.30% |
| Warranty Phase | 30,900.00 | | 0.00% |
| Start-Up Services | 59,000.00 | | 0.00% |
| O&M Manual Update | 16,900.00 | | 0.00% |
| Water Treatment Plant Audit | 0.00 | | 0.00% |
| Flood Protection | 0.00 | | 0.00% |
| CT Study & TCEQ Update | 17,000.00 | 16,954.00 | 99.73% |
| Constr Observation & Resident | 174,000.00 | | 0.00% |
| Geotechnical Investigation | 76,200.00 | 76,186.25 | 99.98% |
| TWDB & TCEQ Coordination | 102,500.00 | 102,617.49 | 100.11% |
| Power System Study | 55,000.00 | 55,000.00 | 100.00% |
| City of San Marcos Permitting | 104,200.00 | 104,270.89 | 100.07% |
| City of San Marcos Platting | 28,900.00 | 29,911.00 | 103.50% |
| Ozone Bldg Upgrade to CMU | 49,800.00 | 46,813.60 | 94.00% |
| TCEQ Pilot Study | 4,000.00 | | 0.00% |
| Preconstruction T&E Surveys-Terrestrial | 2,600.00 | | 0.00% |
| Preconstruction T&E Surveys-Mussels | 8,500.00 | | 0.00% |
| Dewatering Aquatic Resources | 27,600.00 | | 0.00% |
| Geotechnical Baseline for River Intake | 4,800.00 | 4,782.50 | 99.64% |
| Cultural Resources Constr Monitoring | 42,500.00 | | 0.00% |
| OSSF Irrigation Reconfig & Permitting | 9,000.00 | | |
| Total Additional Engineering Services | 971,500.00 | 577,324.53 | 59.43% |
| HCWTP Ozone Deman & Decay Testing | 9,992.00 | 9,992.00 | 100.00% |
| City of San Marcos-Permits | 4,229.74 | 4,229.74 | 100.00% |
| Oity or oan marcos ronnic | | | |
| SCADA | 20,000.00 | 3,963.75 | 19.82% |
| Design Fees | 150,000.00 | 3,900.10 | 0.00% |
| Construction Costs | | 3,963.75 | 2.33% |
| Total SCADA Costs | 170,000.00 | 3,903.73 | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| Bluebonnet Electric Coop - Service Entrances | 0.00 | 0.00 | 0.00% |

Hays Caldwell WTP Improvements Budget vs. Actual July 31, 2023

| | TOTAL | TOTAL | |
|---|---------------|---------------|-------|
| | BUDGET | DISBURSEMENTS | % |
| | | | |
| Probable Construction Costs | | | |
| Raw Water Pump Station & Intake | 1,581,000.00 | | 0.00% |
| Yard Piping | 1,630,000.00 | | 0.00% |
| Clarifier Upgrades | 1,173,000.00 | | 0.00% |
| Splitter Box | 479,000.00 | | 0.00% |
| Chemical Feed & Storage | 232,000.00 | | 0.00% |
| Ozone Improvements | 2,005,000.00 | | 0.00% |
| New 1 MG GST & Rehab Existing 1 MG Tank | 1,938,000.00 | | 0.00% |
| HSPS Improvements | 288,000.00 | | 0.00% |
| Recycle Pump Station | 128,000.00 | | 0.00% |
| Decant Pump Station | 97,000.00 | | 0.00% |
| Decant Ponds | 875,000.00 | | 0.00% |
| Site Civil Paving, etc. | 563,000.00 | | 0.00% |
| Electrical Improvement | 2,951,000.00 | | 0.00% |
| HVAC Improvement | 260,000.00 | | 0.00% |
| Instrumentations & Controls | 953,000.00 | | 0.00% |
| Subtotal | 15,153,000.00 | 0.00 | 0.00% |
| Contractors' Overhead & Profit - 15% | 2,272,950.00 | 3.00 | 0.00% |
| Bond & Insurance - 2% | 303,060.00 | | 0.00% |
| Permits - 1.5% | 228,040.00 | | 0.00% |
| Contingency - 15% | 2,272,950.00 | | 0.00% |
| Base Bid Total Cost | 20,230,000.00 | 0.00 | 0.00% |
| Additive Alternative I | 422,000.00 | 5.55 | 0.00% |
| Additive Alternative II | 602,000.00 | | 0.00% |
| Additive Alternative III | 30,000.00 | | 0.00% |
| Addtive Alternative IV | 20,000.00 | | 0.00% |
| Additive Alternative V | 45,000.00 | | 0.00% |
| Total Probable Construction Costs | 21,349,000.00 | 0.00 | 0.00% |
| Total Hays Caldwell WTP Improvements | 24 770 050 40 | 0 000 000 10 | |
| Total Hays Saluwell WIF Improvements | 24,772,850.18 | 2,330,938.46 | 9.41% |
| Unallocated Contingency | -2,469,679.18 | | 0.00% |
| Total Expenditures | | 2,330,938.46 | |
| Interest Income | | 1,068,836.66 | |
| Ending Cash | | 21,041,069.20 | |

9:51 AM 08/28/23 Accrual Basis

Hays Caldwell WTP Improvements Banking Activity

As of July 31, 2023

| Туре | Date | Num | Name | Memo | Amount | Balance |
|------------------|-----------------------|-----|------|----------|-----------|--------------------------------|
| Logic, Construc | or Acct 07/31/2023 | | | Interest | 75,839.64 | 16,857,423.99 16,933,263.63 |
| Total Logic, Con | struction Acct | | | | 75,839.64 | 16,933,263.63 |
| BOKF, NA | | | | | | 4,092,275.69 |
| Deposit | 07/03/2023 | | | Interest | 15,529.88 | 4,107,805.57 |
| Total BOKF, NA | | | | | 15,529.88 | 4,107,805.57 |
| TOTAL | | | | | 91,369.52 | 21,041,069.20 |



August 9, 2023

Trey Wilson, Esq. R.L. Wilson Law Firm 16607 Blanco Road, Suite 501 San Antonio, Texas 78232 Via email: trey@sa-law.com

Re: Water Transportation and Wheeling Agreement ("Agreement") between Maxwell Special Utility District ("Maxwell") and Canyon Regional Water Authority

("CRWA"), Effective January 8, 2001

Dear Mr. Wilson:

This correspondence serves as notice to CRWA that Maxwell is exercising rights provided under Section 3.02 of the above-referenced Agreement. Specifically, Maxwell is (i) exercising its "right of exclusive use of the excess capacity within the Existing Transmission Lines, with said exclusive use to commence one year from the date" (i.e., August 9, 2023,) of Maxwell's determination to exercise this right; and (ii) commencing in six (6) months of the date of this correspondence, "Maxwell's intention to utilize the full capacity of the Existing Transmission Lines."

In the interest of forgoing unnecessary delays in this matter, Maxwell also informs CRWA that Maxwell has no interest in any "right to participate in up-sizing [] of an additional transmission line," as also provided under Section 3.02.

By way of continued correspondence, Maxwell is also notifying County Line Special Utility District ("County Line") and Martindale Water Supply Corporation ("Martindale") of Maxwell's decision. Maxwell appreciates and understands County Line's and Martindale's commitments and obligations to provide their customers with continuous and adequate service. To that end, Maxwell will continue to work in good faith with County Line and Martindale to identify current and future sources of additional water supply. However, Maxwell will no longer allow CRWA to operate outside the boundaries of the Agreement (or any others), especially by overcommitting Maxwell's water capacity rights.

As always, I thank you for your time and attention. Please contact me directly if you wish to discuss this matter.

Sincerely,

Zachariah T. Evans

cc: Maxwell Board of Directors

Mr. Justin Ivicic gm@maxwellsud.com

Mr. Humberto Ramos humberto@clsud.org

Mr. Steven Fonville martwsc@austin.rr.com

Mr. John Kaufman jkaufman@crwa.com

Michael A. Gershon, Esq. mgershon@lglawfirm.com

John Hohn, Esq.

jyhohn@centurytel.net



816 Congress Avenue, Suite 1900 Austin, Texas 78701 512.322.5800 p 512.472.0532 f

lglawfirm.com

Mr. Gershon's direct line: (512) 322-5872 Email: mgershon@lglawfirm.com

August 31, 2023

Mr. Timothy D. Fousse, Board President Mr. Brandon Rohan, Board Vice President Members, Board of Trustees Mr. John Kaufman, General Manager Canyon Regional Water Authority 850 Lakeside Pass New Braunfels, Texas 78130

Re: Formal Request for CRWA's (1) Completion of Waterline and (2) Delivery of Contracted-For Water to County Line SUD

Dear Mr. Fousse, Mr. Rohan, Trustees, and Mr. Kaufman:

This request is time sensitive. It will require immediate discussion and action by CRWA's Board of Trustees. Current retail customer water demand and foreseeable, imminent increased demand have made it imperative that our client County Line Special Utility District ("County Line SUD") take immediate action to ensure uninterrupted retail water supply within its service area. In addition to rapid development and increasing water demand over the past decade, several circumstances have quickly evolved during 2023, primarily:

- (i) several developer commitments to pay for build-out and retail water service to 3,100+ new LUEs (living-unit equivalents); and
- (ii) Maxwell Special Utility District's August 9, 2023 six-month notice of intent to utilize the full capacity of Existing Transmission lines under Section 3.02 of the Water Transportation and Wheeling Agreement between Maxwell SUD and CRWA.

County Line SUD has for more than two decades met its commitment on the bond issuances that financed infrastructure that primarily benefited its other CRWA Hays-Caldwell member partners, with the expectation that a subsequent effort would be undertaken to complete the infrastructure contemplated to bring water to County Line SUD, Martindale WSC, and Maxwell SUD (including what has been referred to in recent Board packets as the HCWTP Improvements Project). Each month County Line SUD remits to CRWA a payment of about \$171,500 that includes its bond payments, a membrane fund payment, a line and use delivery charge, a raw water charge and an

Formal Request for Completion of Waterline and Delivery of Contracted-For Water August 31, 2023 Page 2

administrative fee based on the contracted-for amount of 1,308 acre feet, much of which CRWA cannot deliver to County Line SUD. Time is now of the essence to launch the effort to bring the entire contracted-for volume of water to County Line SUD and its other Hays-Caldwell partners.

We are encouraged that the wheels are in motion by the Board of Trustees' following approvals of engineering services at its August 14, 2023 meeting:

- (i) Gallegos Engineering to conduct alignment determination and related services on a transmission line to County Line SUD's point of delivery; and
- (ii) Ardurra Group to provide grant application services in support of the HCWTP Improvements Project.

We understand that there was a meeting over the past several days with Ardurra Group on a multi-task scope of work for membrane and other HCWTP and infrastructure improvements that would ultimately enable delivery of treated water to County Line SUD.

Although we are encouraged by these efforts, we remain very concerned that CRWA is not moving quickly enough to ensure that water comes on-line soon enough. As you know, in part to mitigate CRWA's inability to deliver County Line SUD's full contractual commitment now or in the immediate future, we entered a two-year contract for short-term water from the City of San Marcos that requires the expenditure of more than \$4.6 million for infrastructure, right of way, and raw water to be paid at the rate of \$5.82 per 1,000 gallons received with a 5% annual increase in this rate. On a related note, we look forward to continued discussions with CRWA, Crystal Clear SUD and our other member partners about equitable pricing for the water committed to Hays-Caldwell partners that CRWA cannot deliver. We will provide feedback on the draft memorandum of understanding intended to address this topic, which we received from Trey Wilson by email late yesterday afternoon.

On August 21, 2023, County Line SUD's Board of Directors was extensively briefed by its senior management, engineers and legal counsel on the implications of Maxwell SUD's notice, its arrangement with the City of San Marcos, the status of new retail customers coming on-line, and the above-referenced developments at CRWA. At this meeting our Board took formal action (1) directing our law firm to prepare and send this letter and (2) delegating authority to two Directors and the General Manager to monitor CRWA's response and to direct our firm to pursue all legal remedies under our CRWA agreements to secure CRWA's completion of the necessary infrastructure to deliver the entire contracted-for water supply to County Line SUD.

Formal Request for Completion of Waterline and Delivery of Contracted-For Water August 31, 2023 Page 3

There are bond-related implications to the current predicament. At the present time County Line SUD's leadership remains hopeful that CRWA and our member partners at CRWA will work closely and diligently to prioritize the obvious action items and accelerate the necessary timelines to move forward with the Hays-Caldwell improvements. Our Board will expect an update at its September 18th meeting. But please recognize the Board's action in August to take all necessary legal action to protect County Line SUD's ability to serve its retail customers.

We look forward to (i) immediate informal discussion and (ii) formal review and action by the Board of Trustees at its September 2023 meeting to accelerate timelines and commit to achievable completion of the HCWTP Improvements Project and related waterline buildout to deliver the entire contracted-for water to County Line SUD, particularly in light Maxwell SUD's own water-supply and infrastructure stresses and notice to terminate County Line SUD's capacity by February 2024.

Sincerely,

Michael A. Gershon

cc: Mr. R.L. "Trey" Wilson, General Counsel Canyon Regional Water Authority

Ms. Toni Brewer

Ms. Teresa "Tracy" Scheel

Mr. Humberto Ramos

Mr. Daniel Heideman

Mr. Doug Schnautz

Mr. Chris Betz

County Line Special Utility District

Mr. Jose de la Fuente, Litigation Practice Group Chair Lloyd Gosselink Rochelle & Townsend, P.C.





MEMORANDUM

To:

CRWA Board of Trustees

From:

John M. Kaufman, General Manager

Date:

September 11, 2023

Subject:

CRWA Staff Report

Drought Report (refer to inclusions)

A. Current Drought Conditions:

- a. Continental US drought conditions
- b. State of Texas drought conditions
- c. Guadalupe County drought conditions
- B. Precipitation Report through August 31, 2023
- C. Canyon Lake Current Conditions:
 - a. Historical chart
 - b. Current lake level
 - c. 2009 vs. 2023 comparison

Water Treatment, Storage, and Transmission Operations

- A. Wells Ranch WTP:
 - a. Raw water production recent high was 12.19 MGD.
 - b. TCEQ inspection Corrections to minor deficiencies were completed.
 - c. Wells:
 - Well No. 1 Rehabilitation The vertical turbine pump column was pulled and inspected for damage that should be covered by warranty.
- B. Lake Dunlap WTP:
 - a. Raw water production recent high was 14.28 MGD.
 - b. Engineering SOQs received for the Lake Dunlap Improvement Project were reviewed by an ad hoc selection committee comprised of CRWA staff members and representatives from Springs Hill, East Central, Crystal Clear, Green Valley, and the City of Cibolo. From the reviews the following four firms were selected for interviews on September 25 at CRWA: STV, Ardurra, Garver, and Black & Veatch.
- C. Hays Caldwell WTP:
 - a. Raw water production recent high was 3.695 MGD.
 - b. Pall Trailer currently produces about 1.0 to 1.2 MGD.
 - c. Koch membranes operating more efficiently and effectively due to use of the Pall Trailer.
- D. Storage and Transmission:



a. Normal operations.

Water Usage

Water usage tables and graphs from January through August 2023 are attached.

Taste and Odor

In June CRWA staff began noticing taste and odor in the raw and treated water at the Lake Dunlap WTP. Member entities were immediately notified of the problem. Taste and odor issues are associated with the rapid growth of algae in Lake Dunlap due to the ongoing hot weather and nutrient levels in the water. The major source of the taste and odor at Lake Dunlap is 2-Methyl-Isoborneol (MIB).

MIB and geosmin account for the majority of biologically caused taste and odor outbreaks in drinking water. MIB has a distinct earthy or musty odor, which most people can easily smell. The odor detection threshold of MIB is low, ranging from 0.002 to 0.02 micrograms per liter (mg/L) in water. CRWA routinely tests the water from Lake Dunlap for geosmin and MIB. Current concentrations are low with no recent reports of taste and ordor.

PFAS Testing

Recent testing of water at the Wells Ranch WTP by TCEQ found no detectable presence of 29 toxic PFAS chemicals.

Recent testing of water at the Lake Dunlap WTP by TCEQ found the presence of 1 out of 29 toxic PFAS chemicals in concentration slightly exceeding the "reporting limit": Perfluoropentanoic acid (PFPeA). The reporting limit is 3.01 ng/L. The measured concentration was 3.71 ng/L. This compound is found in industrial surfactants.

Prior testing of water at the Hays Caldwell WTP by TCEQ found the presence of 2 out of 29 toxic PFAS chemicals in concentrations slightly exceeding the "reporting limit": Perfluoropentanoic acid (PFPeA) and Perfluorobutanesulfonic acid (PFBS).

GBRA

• CRWA staff will attend the first meeting of *Second Party Take Stakeholder* regarding Guadalupe Habitat Conservation Plan (HCP) on September 28 at 10 am.

Region L

The next short-term steps for the planning group are:

- Water availability and supply analysis
- Identification of water needs
- Water management strategies and evaluations

The next meeting will be at SAWS office on November 2nd at 9:30 a.m.

GBC

• The next meeting is October 27 at 10:30 am.



GMA 13

Next meeting is September 15th.

Guadalupe County Groundwater Conservation District

• Staff will attend the next Board meeting on September 14, 2023, at 4:30 pm.

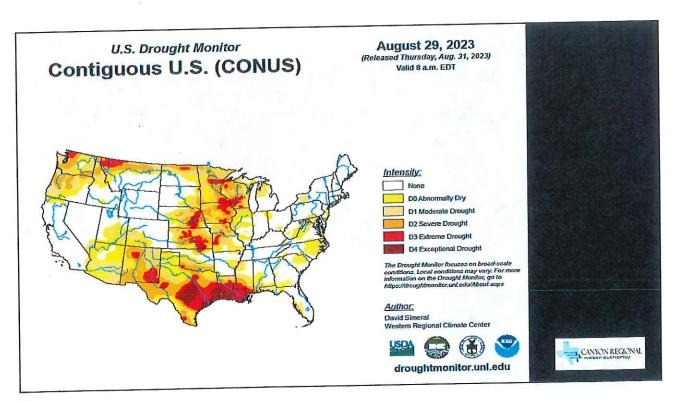
Gonzales County Underground Water Conservation District. (GCUWCD)

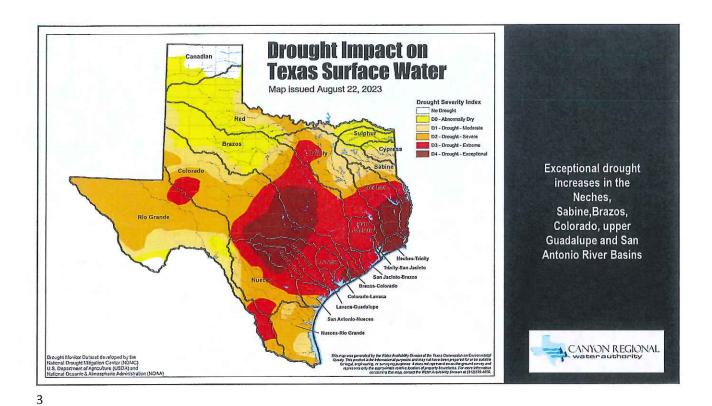
- CRWA's request to amend its permit by 920 acre-feet for Well -14 will be the subject of a public hearing on September 12 at 5 pm.
- GBRA Permit status request: GCUWD is contracting with SOAH for a contested case hearing. The date for hearing has not yet been determined, but location will be in Gonzales TX.

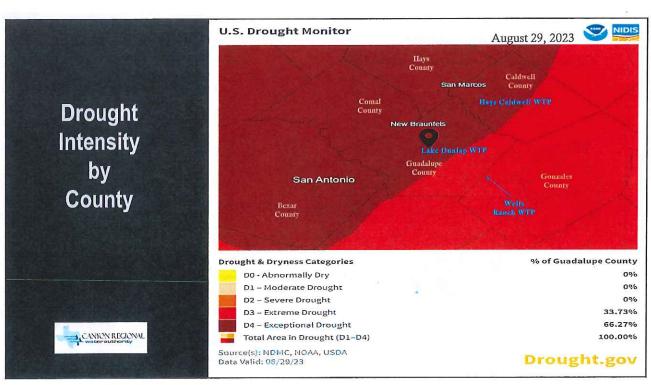
Wells Ranch Phase III

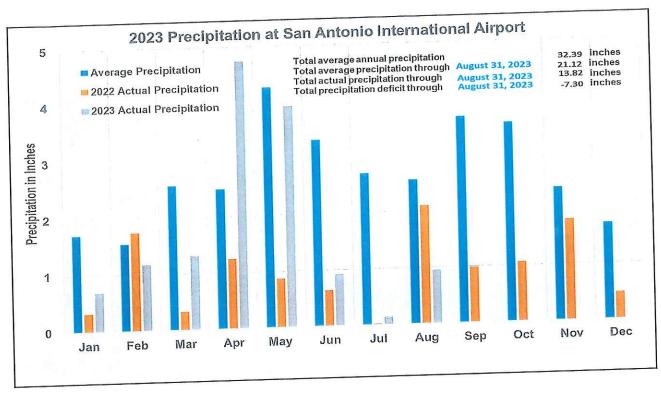
- CRWA held a meeting on August 10th to discuss Wells Ranch III project phasing, financial impact, groundwater leasing and permitting, and next steps.
- An additional item included reviewing the Water Supply Contract to improve and update content and language. Trey Wilson, John Kaufman, and Stephanie Leibe were tasked to perform the contract review and provide comments.



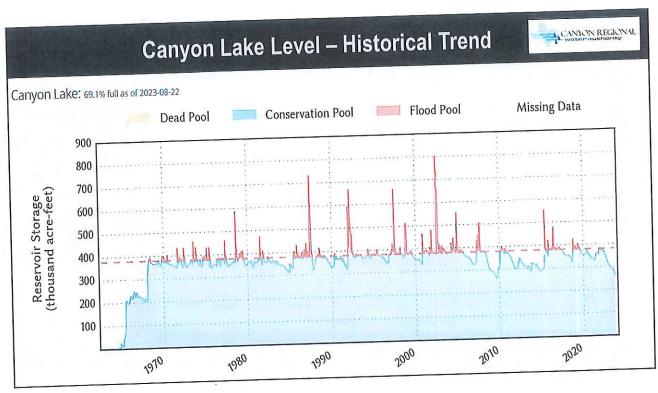


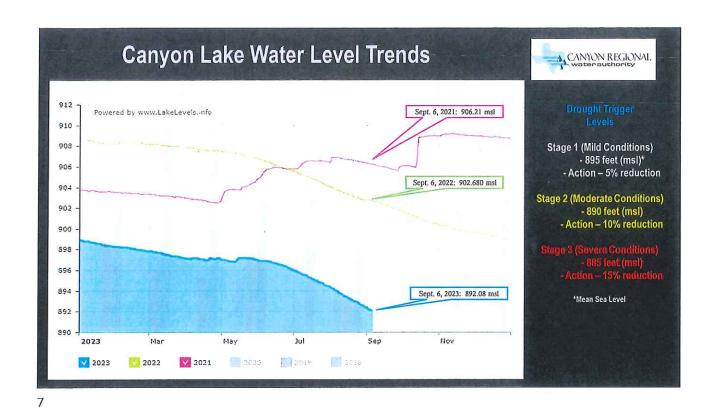


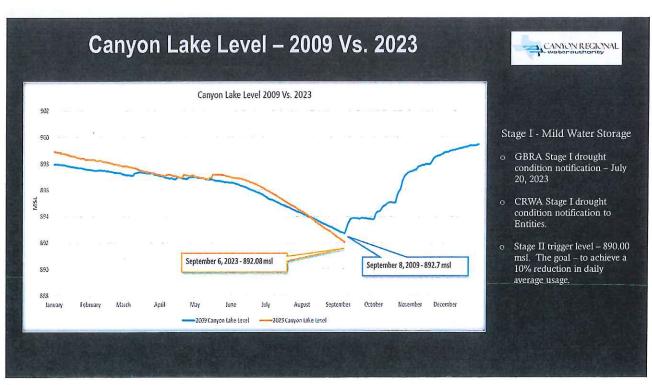


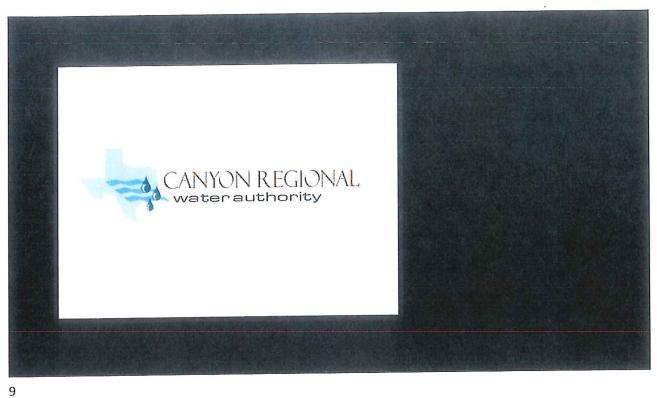












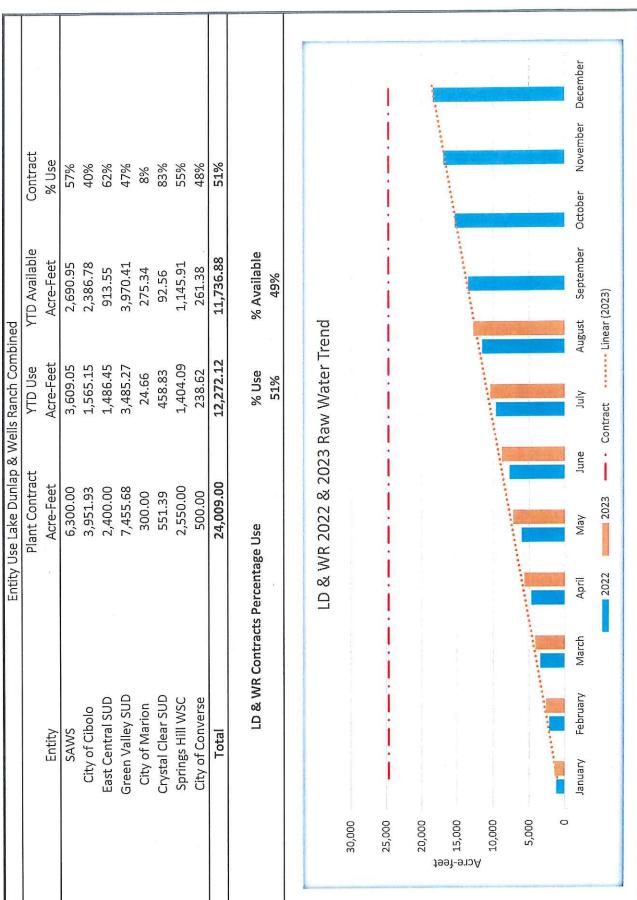


| YEAR 2023 (January thru August) | ary thru August) | |
|--|--|-----------|
| Lake Dunlap & Wells Ranch Raw Water Inventory | Lake Dunlap & Wells Ranch Contract Amounts | S |
| LD Surface Water Acre-Feet | LD Supply Contracts | Acre-Feet |
| GBRA Leased Raw Water 10,575.00 | SAWS | 3,500.00 |
| CRWA Water Rights/Raw Water 564.50 | City of Cibolo | 1,230.00 |
| Crystal Clear/GBRA Leased Water ¹ 500.00 | East Central SUD | 1,400.00 |
| Annual Total 11,639.50 | Green Valley SUD | 1,800.00 |
| | City of Marion | 100.00 |
| WR Ground Water | Crystal Clear SUD | 200.00 |
| Guadalupe Carrizo Leased | Springs Hill WSC | 2,450.00 |
| Guadalupe Wilcox Leased | Annual Total | 10,980.00 |
| Gonzales Carrizo Leased 7,400.00 | | |
| Annual Total 13,029.42 | | |
| LD & WR Combined Annual Raw Water Inventory | Wells Ranch Phase I & II Combined Contract Amounts | ounts |
| | | Acre-Feet |
| Acre-Feet | SAWS ² | 2,800.00 |
| Lake Dunlap WTP 11,639.50 | City of Cibolo ³ | 2,721.93 |
| Wells Ranch WTP 13,029.42 | East Central SUD | 1,000.00 |
| 2023 Annual Total 24,668.92 | Green Valley SUD | 5,655.68 |
| Comments: | City of Marion | 200.00 |
| | Crystal Clear SUD ³ | 51.39 |
| ¹ Crystal Clear Leases 500.00 acre-feet from GBRA. CRWA reports these | Springs Hill WSC ² | 100.00 |
| diversions to the Water Master. | City of Converse | 500.00 |
| ² Springs Hill leases 500.00 acre-feet of Dunlap water from SAWS. This contract is due to expire December 31, 2023. | Annual Total | 13,029.00 |
| 3 Cibolo leases 741.00 acre-feet of Wells Banch water from Crystal Clear | | |
| This contract is due to expire December 31, 2023. | LD & WR Annual Contract Amount | 24,009.00 |
| | | |



| | | and includes | uits iiiay ciiaiige | | DA system. | | | | | | | 43.17 | | | - 456.83 | | | Crystal Clear/GBRA | |
|---------------------------------------|-----------|--|------------------------|------------------|--|----------------|-------------------|------------------|------------------|-----------|--|-------|------------|------------------|----------|------------|--|------------------------------------|---------------------|
| | | ach entity is current Fhese contract amo | בוכזר כסוויו שכר שוויס | | re from CRWA's SCA | | | | | | % Available 48% | | 7 3,752.44 | | | 3,647.56 | | | |
| nts: | 9 | The total contract amounts for each entity is current and includes | 1, 2024. | | All meter readings in this table are from CRWA's SCADA system. | | | | | | % Use 52% | | 7 1,918.27 | | | _ 1,107.73 | | e Wilcox Gonzales Carrizo | |
| Comments: | Acre-Feet | | | | | 300.00 | 551.39 | 2,550.00 | 500.00 | 24,009.00 | s Ranch Use | | 7 1,493.00 | | | 7 1,110.41 | | Guadalupe Carrizo Guadalupe Wilcox | Purchased Available |
| ntract Amounts 2023 | Acre | 6,3 | 3,9 | 2,4 | 7,4 | 30 | 52 | 2,5 | 50 | | t) Lake Dunlap/Well | | 210:00 | | 200 | OC:LOS | | | |
| CRWA Entites - LD & WR Total Contract | Entity | SAWS | City of Cibolo | East Central SUD | Green valley sub | City of Marion | Crystal Clear SUD | Springs Hill WSD | City of Converse | Total | 2023 (January thru August) Lake Dunlap/Wells Ranch Use | | 7-4,450.69 | | | 6,124.31 | | GBRA Dunlap WTP Rights | |
| CRWA | | | | (| ر | | J | | | | | | | teet elsoc or | | | | | |

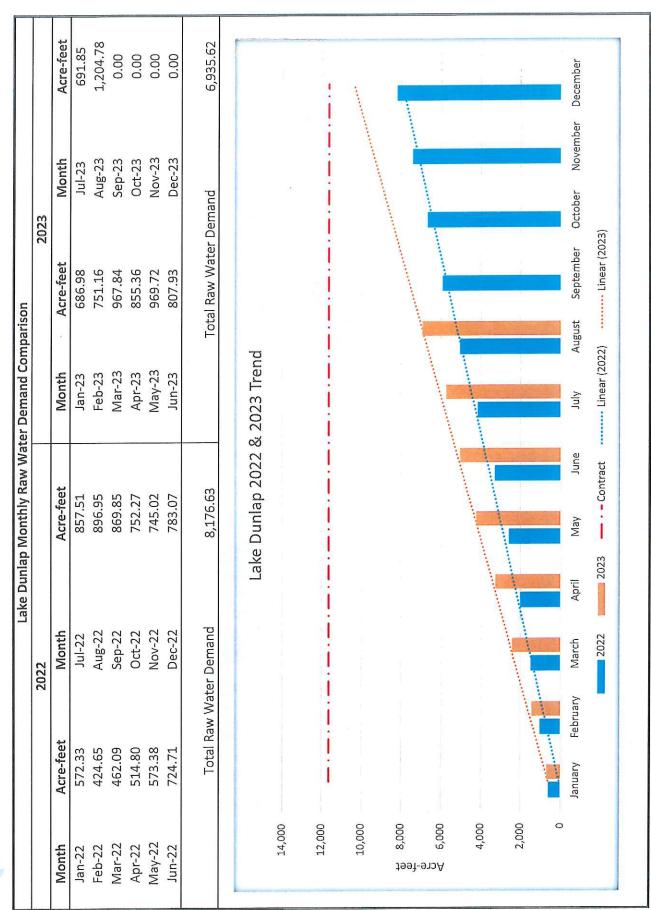


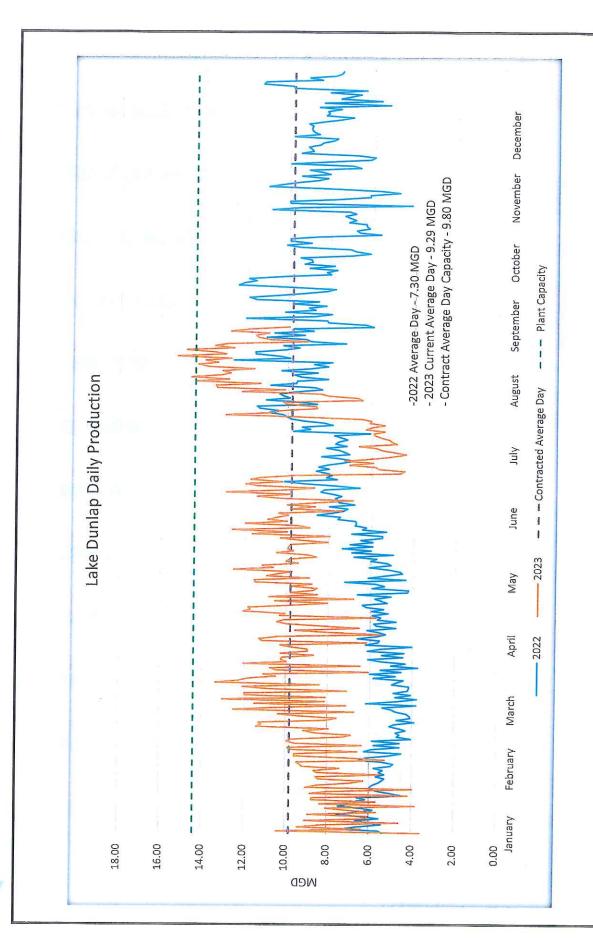




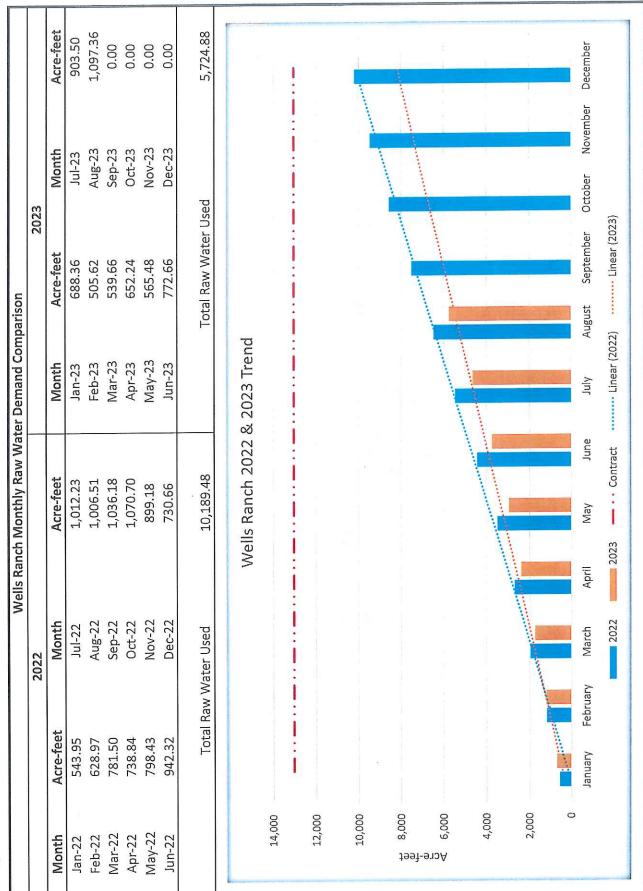
| | Annual Allocation | | | | |
|-----------------------------|-------------------------|--|-----------------|-----------------------|-----------|
| | אוויים אוויים | YTD Use | Available | | |
| | Acre-feet | Acre-feet | Acre-feet | | |
| GBRA | 10,575.00 | 6,124.31 | 4,450.69 | | |
| River Mill #18-3829 | 400.00 | 190.00 | 210.00 | | |
| Ray Dittmar #18-3832A | 44.00 | 44.00 | 0.00 | | |
| Gary Dittmar #18-3833B | 30.50 | 30.50 | 0.00 | | |
| William Daniel #18-3834 | 71.48 | 71.48 | 0.00 | | |
| William Daniel #18-3834A | 18.52 | 18.52 | 0.00 | | |
| Crystal Clear GBRA Lease | 500.00 | 456.83 | 43.17 | | |
| Total | 11,639.50 | 6,935.64 | 4,703.86 | | |
| | 2023 (January tl | 2023 (January thru August) Wells Ranch WTP Raw Water Use By Permit | h WTP Raw Water | 1 -0 | |
| | Guadalupe County Wells | - 1 | | Gonzales County Wells | IIs |
| Carrizo | Acre-feet | Wilcox | Acre-feet | Carrizo | Acre-feet |
| #2 Deer Stand | 457.60 | #3 Deer Stand | 486.30 | #1 Tommy's | 6.81 |
| #4 Pig Trap | 396.10 | #6 Dead Man Tank | 621.42 | #5 Littlefield | 528.19 |
| #/ Dead Man Tank | 256.72 | | | #8 Chickenhouse | 470.76 |
| Total | 1,110.41 | Total | 1,107.73 | #9 Camphouse | 445.34 |
| | Ground Water Permit Use | t Use | | #11 Coastal Field | 345.79 |
| | Use Acre-feet | Contract | Available | #12 Bull Trap | 275.84 |
| Guadalupe Carrizo | 1,110.41 | 2,603.42 | 1,493.00 | #13 Bond West | 225.39 |
| Guadalupe Wilcox | 1,107.73 | 3,026.00 | 1,918.27 | #14 Christian West | 528.55 |
| Total Guadalupe | 2,218.14 | 5,629.42 | 3,411.28 | #15 Bond East | 515.48 |
| Total Gonzales Carrizo | 3,647.56 | 7,400.00 | 3,752.44 | #16 Christian East | 305.42 |
| | 1 | | | lotal | 3,647.56 |
| Total Ground Water | 5,865.70 | 13,029.42 | 7,163.72 | | |



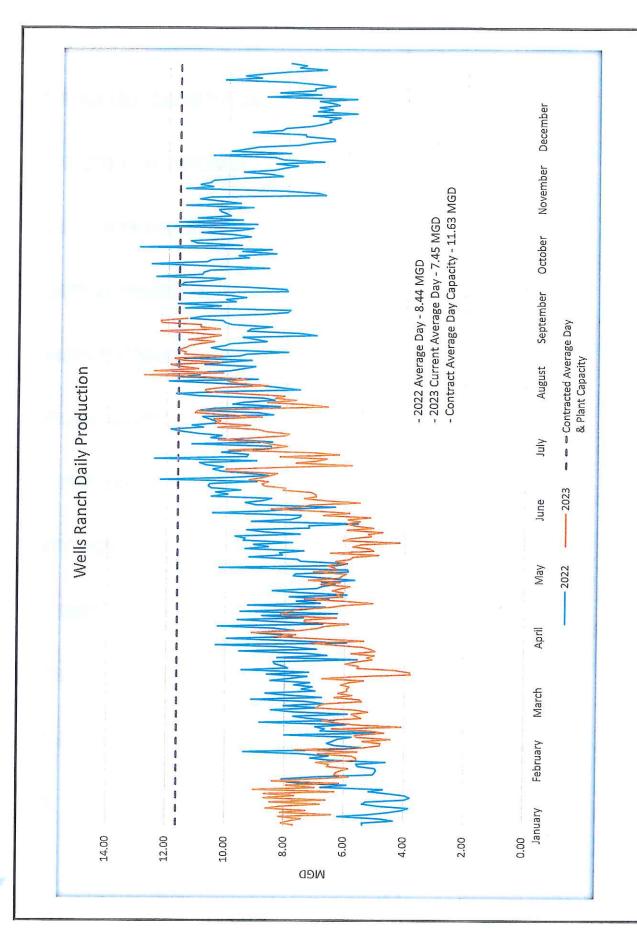








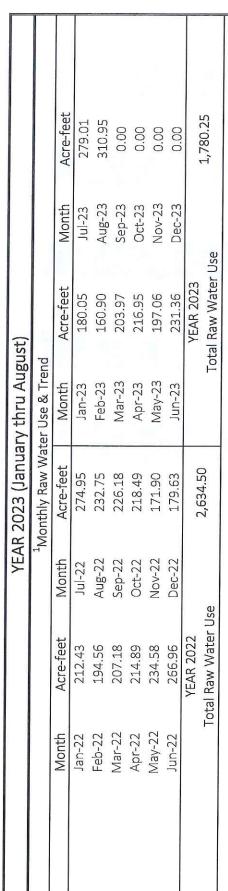
Lake Dunlap / Wells Ranch Water Usage Summary

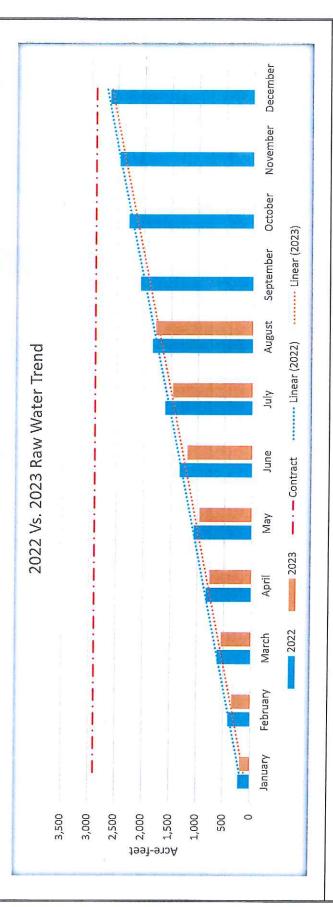




| | YEAR 20 | 723 (Janı | YEAR 2023 (January thru August) | ugust) | | | |
|---|----------------------|--------------|--|------------------------------|--------------------|----------------|------------------------|
| CRWA Raw Water Inventory | Acre-feet | | Raw W | Raw Water Usage | | | Acre-feet |
| GBRA Take or Pay Leased Water | 2,038.00 | | ³ GBRA Take or Pay Leased Water | Pay Leased V | Vater | | 1,391.15 |
| | 516.16 | | Cummings/ | Cummings/CRWA 18-3887 | 87 | | 277.47 |
| Foster 18-3889A | 24.00 | | Foster | Foster 18-3889A | | | 24.00 |
| Baugh 18-3888A - Leased | 320.00 | | Baugh 18-3 | Baugh 18-3888A - Leased | p | | 187.55 |
| nual Total | 2,898.16 | | YEAR 2023 (January thru August) | uary thru Au | ugust) | | 1,880.16 |
| Raw Water Rights by Others Inventory | Acre-feet | | Raw Water I | Raw Water Usage by Others | iers | | Acre-feet |
| ¹ Cummings/Martindale 18-3887D | 255.84 | | ¹ Cummings/Martindale 18-3887D | artindale 18- | 3887D | | 20.00 |
| City of San Marcos | 1,314.00 | | City of | City of San Marcos | | | 0.00 |
| ² Annual Raw Water | 2,898.16 | | ⁴ Annu | ⁴ Annual Contract | | | 2,908.00 |
| YTD Total Use | 1,880.16 | | Year En | Year End Total Use | | | 1,780.25 |
| YTD Not Used | 1,018.00 | | Year En | Year End Not Used | | | 1,127.75 |
| % Used 65% % Not Used | 35% | | % Used | 61% | % Not Used | 93% p | |
| Comments: | | | | | | | |
| ¹ Martindale/Cummings 18-3887-D is a reference to the Amended and Restated Contract of 2021 Exhibit C, "Special Provisions Related to the Martindale | e to Exhibit e | | 646.85 | 238.69 | | 132,45 | |
| Water Supply Corporation (Martindale WSC)." Martindale desires to use just one (1) AF/month on this right. Only Martindale | ale a | teefeet | | | 24,00 | | 235.84 |
| may use this right. 2 Annual Raw Water does not include Raw Water Rights by Others Inventory. | L | , | 1,391,115 | 277.47 | | 187.55 | |
| ³ GBRA Take or Pay Leased Water formula: | | | | | | | 20.00 |
| GBRA Used + GBRA Unused = GBRA Total Take. | ai | | GBRA C Lease | Cummings Right | Foster Right | Baugh Lease | Martindale Cummings |
| 4 Annual Contract - Currently based on the 2021 Water Sunnly Contract Exhibit A Schedule I | T. | | | ■ Purc | Purchased Mailable | | |
| | | | | | | | |



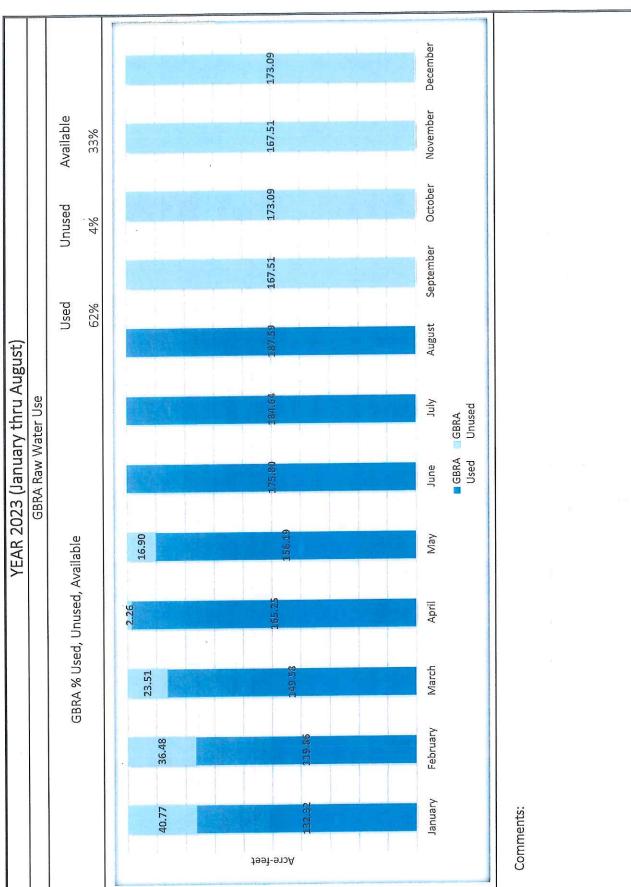




Comments:

¹ Monthly Raw Water Use & Trend is based on actual usage.







| | | Comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 20 |
|---------------------------------|-----------------------------------|------------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|---------------------|
| | | Total Treated | Acre-feet | 173.72 | 161.01 | 195.28 | 208.31 | 198.91 | 221.21 | 268.60 | 294.28 | 0.00 | 0.00 | 0.00 | 0.00 | 1,721.30 | Total | % Use | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 0.00% | 0.00% | 0.00% | 0.00% | 100.00% |
| ust) | | CoSM | Acre-feet | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | CoSM | % Use | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| YEAR 2023 (January thru August) | Treated & Raw Water Use by Entity | Maxwell | Acre-feet | 61.14 | 52.57 | 58.39 | 62.84 | 63.28 | 65.74 | 73.26 | 81.48 | 0.00 | 0.00 | 0.00 | 0.00 | 518.70 | Maxwell | % Use | 35.19% | 32.65% | 29.90% | 30.17% | 31.82% | 29.72% | 27.28% | 27.69% | 0.00% | 0.00% | %00.0 | 0.00% | 30.13% |
| 2023 (Janua | ted & Raw Wa | Martindale | Acre-feet | 8.85 | 8.72 | 7.14 | 7.23 | 7.62 | 10.63 | 12.94 | 9.90 | 0.00 | 0.00 | 0.00 | 0.00 | 73.02 | Martindale | % Use | 2.09% | 5.41% | 3.66% | 3.47% | 3.83% | 4.81% | 4.82% | 3.36% | 0.00% | %00.0 | 0.00% | %00.0 | 4.24% |
| YEAR | Trea | Crystal Clear | Acre-feet | 48.00 | 42.03 | 49.52 | 56.96 | 42.34 | 51.41 | 66.91 | 68.50 | 0.00 | 0.00 | 0.00 | 0.00 | 425.68 | Crystal Clear | % Use | 27.63% | 26.11% | 25.36% | 27.34% | 21.29% | 23.24% | 24.91% | 23.28% | 0.00% | 0.00% | 0.00% | 0.00% | 24.73% |
| | | County Line | Acre-teet | 55.74 | 57.69 | 80.23 | 81.28 | 85.66 | 93.42 | 115.48 | 134.40 | 0.00 | 0.00 | 0.00 | 0.00 | 703.91 | County Line | % Use | 32.08% | 35.83% | 41.08% | 39.02% | 43.07% | 42.23% | 42.99% | 45.67% | 0.00% | 0.00% | 0.00% | 0.00% | 40.89% |
| | | 2 | Month | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Total | | Month | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | age Take |
| | | Treated (Delivered) | Water | | | | | | | | | | | | | | Percentage Trantod | Water | | | | | | | | | | | | | YID Percentage Take |



| | | CoSM Acre-feet | 0.00 | 00.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------------------------------|-----------------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| YEAR 2023 (January thru August) | Treated & Raw Water Use by Entity | Co. | o. | 0. | 0. | 0. | o. | 0. | 0. | o. | 0. | o. | Ö | 0. | 0.0 |
| | | Maxwell Acre-feet | 63.36 | 52.54 | 66.09 | 65.44 | 62.70 | 68.76 | 76.10 | 86.09 | 00.00 | 0.00 | 0.00 | 0.00 | 535.98 |
| | | Martindale Acre-feet | 9.17 | 8.71 | 7.46 | 7.53 | 7.55 | 11.12 | 13.44 | 10.46 | 0.00 | 0.00 | 0.00 | 0.00 | 75.44 |
| | | Crystal Clear Acre-feet | 49.75 | 42.01 | 51.72 | 59.32 | 41.95 | 53.77 | 69.51 | 72.38 | 0.00 | 0.00 | 0.00 | 0.00 | 440.41 |
| | | County Line Acre-feet | 57.77 | 57.65 | 83.80 | 84.66 | 84.87 | 97.71 | 119.96 | 142.02 | 0.00 | 0.00 | 0.00 | 0.00 | 728.43 |
| | | ³ Total Raw Acre-feet | 180.05 | 160.90 | 203.97 | 216.95 | 197.06 | 231.36 | 279.01 | 310.95 | 00.00 | 0.00 | 0.00 | 0.00 | 1,780.25 |
| | | ² Total Treated Acre-feet | 173.72 | 161.01 | 195.28 | 208.31 | 198.91 | 221.21 | 268.60 | 294.28 | 00.00 | 0.00 | 0.00 | 0.00 | 1,721.30 |
| | | Month | Jan-23 | Feb-23 | Mar-23 | Apr-23 | May-23 | Jun-23 | Jul-23 | Aug-23 | Sep-23 | Oct-23 | Nov-23 | Dec-23 | Total |
| | | ¹ Raw Water Use | | | | | | | | | | | | | |

Comments:

¹Raw Water Use Formula:

% Use = "Entity" Treated Water \div Total Treated x 100 Raw Water Use = Total Raw Use x "Entity" % Use

²Total Treated - Metered treated water delivered to the participating members. Individual Entity use can be seen in the table on page 4.

³Total Raw - The total amount of Raw Water that was delivered to the plant for treatment.

Alliance Regional Water Authority Update for CRWA Board Meeting



Graham Moore (August 2023)

Board Meeting Activities in August:

- Below are items that the Board took up at the August Board meeting:
 - o Adopted the FY 2023-24 budget.
 - Received a presentation on funding options for the remaining Phase 1B projects and the possible Phase 1C/1D expansions.
 - O Discussed the Executive Director's performance evaluation in Executive Session.

Phase 1B Program

- Water Treatment Plant electrical switchboards are delayed and therefore the projected substantial completion date has been pushed back to February 2024; continued site work including grading and culverts; set the well surge tanks; installed walls above the CMU in the filter building; continued excavation for detention pond; placed the balder tank and surge tank building foundation and placed the drying bed laterals, gravel and sand.
- Booster Pump Station substantial completion now set for December 2023; installed cathodic test stations; started detention pond trickle channel; continued electrical installation in Electrical Building; continued investigation of pump station slab.
- Segment A all pipe is laid except for either side of the Plum Creek crossing; grouted the pipe in the Plum Creek tunnel; started building out vertical risers on either side of the tunnel; started corrections of over-compaction in identified areas; fiber innerduct installation continues on the project.
- Segment B over 90% of the pipe is installed; continuing open cut installation around SH-183; identified 20 sticks of pipe damaged by a grass fire – pipe manufacturer is scheduled to review options for repair/replacement; setting precast structures for pipeline appurtenances.
- Segment C —Environmental report with the TWDB for review; final design plans are underway as are acquisitions.
- Segment D over 50% of the pipeline is installed; two open-cut crews are underway; all but 1 minor tunnel is complete; work is continuing on the shafts for the San Marcos River crossing.
- Segment E pipe manufacturing is underway with deliveries expected to begin week of 9/18; the Guadalupe River Crossing is currently scheduled to begin in October.
- Elevated Storage Tanks most of the pedestal is complete with the dome work to be formed for concrete placement in the near future.
- Property acquisition is continuing for all parcels in Segments C and the Raw Water properties.

Utility Engineering Group, PLLC 191 N. Union Ave., New Braunfels, Texas 78130 Tel 830.214.0521



PROJECT STATUS REPORTS

| PROJECT STATUS REPORT SUMMARY | |
|-------------------------------|---|
| REPORT DATE | PREPARED BY |
| September 5, 2023 | David Kneuper, P.E. – Utility Engineering Group |

CRWA GIS SYSTEM STATUS SUMMARY

Utility Engineering Group (UEG) is currently working with Canyon Regional Water Authority (CRWA) Staff to perform the field work verification portion of the CRWA Geographic Information System (GIS) Phase IV Project. Additionally, UEG is compiling required as-built plans and information for GIS system implementation.

Since the last project status report to CRWA, UEG has been working to develop a plan to finalize the data collection process. UEG met with CRWA on 8/24/2023, to compile the remaining as-built plans and information. UEG is currently working to upload the provided information to the GIS system.

Following receipt of all requested as-built information from CRWA, UEG will complete the base scope of services within 8 weeks. Currently \$39,650.00 (45%) of the total project budget (\$72,470) has been invoiced. Presently, there are no current issues or associated risks with the project.

TXDOT/CRWA IH-10 (SANTA CLARA & ZUEHL) TRANSMISSION LINE ENCASEMENT STATUS SUMMARY

The project includes the addition of approximately 150 LF of steel split casing on the existing CRWA transmission main at Santa Clara Road and the relocation and encasement of approximately 200 LF of the transmission main at Zuehl Road. The project is required due to the reconstruction of the two intersections by the Texas Department of Transportation (TxDOT) with their IH-10 expansion project. UEG is coordinating with TxDOT and the Contractor to finalize the pricing and supplemental agreement to revise the casing pipe installation method from open cut to bore at Zuehl Road.

Since the last status report update, UEG has had several meetings with TxDOT and the Contractor to verify the final change order costs and to review the proposed supplemental agreement.

Once the notice-to-proceed is issued, the contract documents give the contractor 120 calendar days to reach substantial completion. The contract amount is currently \$529,901.90 including change order number one (fully reimbursable). Presently, there are no current issues or associated risks with the project.

TYDOT/CRWA EM 1518 TRANSMISSION LINE RELOCATION STATUS SUMMARY

The project includes the offset and bore of a new section of 30-Inch CRWA transmission main, approximately 250 LF, across FM 1518 at the intersection with Lower Seguin Road. The project is required

due to the TxDOT widening of FM 1518 and associated drainage improvements. The TxDOT Standard Utility Agreement has been executed by both the Board of Trustees and TxDOT.

Since the last status report, UEG coordinated the project bid opening on August 29, 2023. Four bids were received with RAM Utilities, LLC being the low bidder. UEG has prepared a bid recommendation letter for the CRWA's consideration.

The Engineer's Opinion of Probable Project Cost was approximately \$757,050. The low bid from RAM Utilities, LLC is \$731,420.79. The project is not fully reimbursable, based on the approved Standard Utility Agreement with TxDOT, approximately \$146,430.22 (20.02%) would be reimbursable. Presently, there are no current issues or associated risks with the project.

WATER SYSTEM STANDARDS & TECHNICAL SPECIFICATIONS DEVELOPMENT STATUS SUMMARY

The project includes the preparation, review, and finalization of a new set of water system standards, technical specifications, and forms. The proposed water system standards are limited to CRWA's facilities related to the water transmission main system.

Since the last status report, UEG provided CRWA with a set of draft water system details on 8/22/2023 for review. A draft water system details review meeting has been scheduled for 9/8/2023. Additionally, UEG is continuing work on the draft water system technical specifications, with an anticipated submittal to CRWA Staff in September.

Currently \$2,217.50 (9%) of the total project budget (\$24,760) has been invoiced. Presently, there are no current issues or associated risks with the project.



memorandum

Mr. John Kaufman, General Manager

To: Canyon Regional Water Authority

Trihydro Corporation

cc:
Date: September 1, 2023

Re: Trihydro Corporation – CRWA Engineering Report

MASTER PLAN

- Project consists of developing Master Plan Report and Capital Improvements to address future water demand of Entities
- Iterative process requiring input from multiple parties
- 90% Capital Improvements and Master Plan Report to be delivered to CRWA Staff for review on April 25, 2023
- Meeting to discuss comments with CRWA Staff held in July 13, 2023.
- 100% Capital Improvements and Master Plan Report sent via email to CRWA Staff on 9/1/23.

WELLS RANCH III

- Project consists of developing Preliminary Engineering Report and Capital Improvements costs to address future water demand of Entities
- Iterative process requiring input from multiple parties
- Trihydro met with Entities on 2/9/23 to obtain input on Wells Ranch III improvements
- Trihydro is currently updating Service Plan and cost estimates per input received at 2/9/23 meeting
- Updated deliverables sent to CRWA Staff for review on 2/24/23.
- Meeting with Entities, CRWA, and Trihydro took place on 3/2/23 to discuss updated costs.
- Updated deliverables slated to be sent to CRWA Staff for review on 3/7/23
- Project is approximately 80% billed and 80% complete.
- Trihydro and CRWA Staff met with Entities on 5/11/23.
- Updated deliverables sent to CRWA Staff for review on 6/1/23.
- Meeting with Entities slated for August 10, 2023.
- Submittal of draft report for CRWA review slated for 9/22/23



Memo

To:

John Kaufman, General Manager

Canyon Regional Water Authority

From: Yue Sun, P.E., BCEE

Byron Sanderfer, P.E.

Date:

September 6, 2023

Re:

Project Status Report for:

Hays Caldwell WTP Improvements

Work in Progress through September 5, 2023:

Hays Caldwell WTP Improvements

- 1. TWDB approved the loan scope reduction and feasibility report update and is currently reviewing the Contract Documents for approval before bidding.
 - Updated Categorical Exclusion with NWP permit renewal approval was submitted on 7/18/23.
 - TWDB is waiting for a floodplain permit from Caldwell County to complete their review.
- 2. USACE Nation-Wide Permit renewal requires an aquatic survey to finalize environmental clearance with TWDB. Currently, expect to finish the permit renewal in August/September due to anticipated review time by USACE.
 - Received NWP 58 approval.
- 3. Hazard Mitigation Grant Program (HMGP) application for floodproofing elements
 - Received notice to proceed on 8/24/23, working on the application documents.
- 4. Coordinating with City of San Marcos (CoSM) and Caldwell County for permitting approvals:
 - CoSM Site Preparation Permit and CoSM Plat resubmitted. CoSM Watershed Protection Plan were resubmitted.

Mr. John Kaufman Project Status Report Hays Caldwell WTP Improvements September 6, 2023 Page 2 of 2

- Held a pre-submission meeting with Caldwell County and submitted the documents on 8/14/23; comments received on 9/4/23; addressing the comments, will resubmit on 9/8/23.
- Coordination with CoSM Consultants for pipeline and interconnection: Continue with coordination as needed.
- 5. Jar Testing Evaluation of Ozonation upstream of Filtration for Filter and Chemical Optimization.
 - Processing data and drafting the technical memorandum.

HCWTP Koch Membrane Replacement Project

1. Scope discussion was held on Friday, 8/25/23. Updated the scope of work and level of effort after the meeting.

CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------|---------|---------------|
| | | |

09/11/2023

FY 2024 BUDGET

CRWA 23-09-052

INITIATED BY

REGINA FRANKE / JOAN WILKINSON / JOHN KAUFMAN

STAFF RECOMMENDATION

Approve the FY 2024 Budget for Canyon Regional Water Authority (CRWA) as presented by the CRWA Budget Committee.

BACKGROUND INFORMATION

The FY 2024 Budget was carefully prepared by CRWA Staff and closely reviewed by the Budget Committee. CRWA Staff and the Budget Committee recommend approval of the FY 2024 Budget, which is included herein by reference.

FINANCIAL IMPACT

The financial impact of the FY 2024 Budget is thoroughly described in the budget document.

MOTION

Motion to approve the following resolution.

AT for GM

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-052

 $\ensuremath{\mathsf{BE}}\xspace\operatorname{\mathsf{IT}}\xspace$ RESOLVED that the FY 2024 Budget for Canyon Regional Water Authority is approved.

| | Adop | oted this 11 th | day of Septe | mber 2023 | |
|----------------------------|------|----------------------------|--------------|-----------|-------------------------------------|
| | Ayes | Nays | Abstained | Absent | |
| | | | | | |
| | | | Approve | ed by: | |
| | | | | | Timothy D. Fousse, CPM President |
| | | | | | |
| Certified and attested by: | | | | | |
| | | Doris Steu Secretary | bing | | |

FY 2024 Budget Mighlights

Bond Payments: LD-MC Series 2016

Wells Ranch Phase I

Series 2016 and Series 2021 based on Debt Payment Schedules and will retain 3 months of payments in reserve account after

Series 2017, Series 2021 and Series 2021 (Water Rights Project) based on Debt Payment Schedules and will retain 3 months

of payments in reserve account after July payment.

effective December 31, 2023

Series 2005 annual payment to be paid by funds from the City of San Marcos' contribution to the original project.

Series 2015 based on Debt Payment Schedule and will retain 3 months in reserve account after July payment.

GBRA raw water rate to increase to \$175.00 per A/F from \$165.00 per A/F. Out of District surcharge will be eliminated

Annual contribution based on Debt Payment Schedules to retain 3 months of payments in reserve account after July Payment.

July payment.

Wells Ranch Phase II

Hays Caldwell

Raw Water Costs:

LD-HC

WR

Wells Ranch raw water lease payments are determined by the current GBRA rate for raw water, CPI adjustments and contract amendments. Also included is additional 14,500 acre feet of water for Wells Ranch III.

Line Use & Delivery:

LD-MC-HC-WR-ADMIN

Operations & Maintenance:

GBRA regional raw water delivery system rate will remain the same at \$0.595 per 1,000 gallons.

Fixed Operations & Maintenance costs are based on plant contracts.

Insurance: Real and Personal Property includes a rate increase of 6% with a 12% inflation factor for property values. Auto & Mobile Physical damage has a rate increase of 6%.

Director of Water Resources with a staff engineer and the addition of a plant operator, increase in cost of health care benefits This includes a 5% COLA and 3% merit increase in employee wages. This also includes adding an assistant general manager to administrative staff, replace of 49%, contributing 50% to employee cost of dependent insurance, providing employee LTD and STD and additional life insurance coverage through TCDRS. Personnel costs include wages, payroll taxes, employee health care benefits, TCDRS Annual personnel costs increased by approximately \$622,000 over the prior years budget. retirement plan and workers compensation insurance.

Plant facilities and pipeline personnel costs based on percentage of time for each location.

Lab testing fees adjusted for increased frequency in testing done by outside lab providers, along with increased pricing of lab

Plant & Booster Station generator, compressor and grounds maintenance based on annual contracts with service provider.

Budget Highlights

Increase operator clothing allowance from \$300 to \$500 per employee.

Water sales projections increased 3% over FY 2023. Sales determined by prior actual usage and/or entity projections.

Variable costs of chemicals and electric usage based on projected sales with an average increase of 21% in chemical costs and electricty rates increasing about 5%

Includes

Maintenance & repair costs adjusted over FY 2023 for increased costs in maintaining well pumps and tonka filters.

\$20,000 for well field roadway repairs. Also included is purchase of bobcat for \$40,000

Plant maintenance includes pipeline and valve repairs of \$200,000.

Plant operations includes forklift for \$30,000 and truck for \$50,000

Plant operations include 57% increase in oxygen tank rentals and \$60,000 truck purchase.

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ADMIN

Strategies,

Administrative cost allocation is based on cost of service instead of plant contracts, per 2019 Rate Study by NewGen

Membrane Funds:

9

R

Repair & Replacement Funds:

LD-MC-WR-HC

ARWA

\$6,275,109 is included in the budget with division allocation based on signed contracts with Crystal Clear SUD, Green Valley SUD, County Line SUD and Martidale WSC.

repairs due to aging infrastructure (Clarifer repairs, generator replacement at LD, Ozone Parts, VFD's and major well repairs at

Well Sites, Air Compressor and Dryer at WR). Also, change orders to pipeline projects at FM 1518, IH-10 and FM 621,

Repair & Replacement Fund is \$1,767,000 with allocation based on total Plant Contracts. This fund will be used for major

The membrane fund includes \$480,000 for rental of temporary membrane trailer until permanent replacement can be made.

Continue with 10 year amortization schedule created in FY 2020 for replacement of membrane cartridges in 2030.

Canyon regional water authority fy 2024 riidhet

| | CRWA Admin | \$137,281.29 \$48,783.74 \$4,902.90 \$14,708.71 \$54,656.46 \$69,150.82 \$3,836.97 \$12,564.00 \$74.489.88 | \$108,630.57 \$27,157.64 \$15,518.65 \$43,452.23 \$15,518.65 \$6,207.46 \$216,485,20 | \$182,716.54 \$121,734.55 \$29,790.74 \$9,930.25 \$96,346.65 \$340,454.64 \$13,106.48 \$13,106.48 \$13,106.48 \$25,811.39 \$11,987.99 \$42,647.65 \$23,333.41 \$35,900.12 | \$188,864.82 \$76,895.53 \$2,803.86 \$2,803.86 \$934.62 \$527,199.38 \$13,259.39 \$00,097.43 \$73,356.81 |
|--------|-------------------------|--|--|--|---|
| | Repair & Replacement | \$174,447.14 \$61,305.71 \$6,230.25 \$18,690.76 \$89,778.86 \$89,775.67 \$4,984.20 \$24,921.02 \$97,191.98 | \$174,447.14 \$43,611.78 \$24,921.02 \$69,778.86 \$24,921.02 \$9,968.41 | \$114,636.69 \$98,733.59 \$18,690.76 \$6,842.04 \$281,890.63 \$9,968.41 \$24,921.02 \$9,733.24 \$27,699.71 \$27,699.71 \$4,984.20 \$4,984.20 \$649,391.94 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ |
| | Line Use & Delivery | 00.08 00.09 00.00 00 | 00.00 00.00 00.00 00.00 00.00 00.00 00.00 | | 00000000000000000000000000000000000000 |
| | Membrane Funds | \$19,720.99 \$6,930.52 \$704.32 \$2,112.96 \$7,888.40 \$10,142.22 \$563.46 \$2,817.28 \$10,987.41 \$61,867.57 | 00000000000000000000000000000000000000 | # # # # # # # # # # # # # # # # # # # | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 |
| | Plant O&M | \$351,201.66 \$123,422.30 \$12,542.92 \$37,628.75 \$140,480.66 \$180,618.00 \$10,034.33 \$50,171.67 \$195,669.50 | \$385,947.80 \$966,486.95 \$55,135.40 \$154,379.12 \$55,135.40 \$22,054.16 | \$224,308.52 \$193,191.08 \$35,572.04 \$13,190.68 \$97,525.45 \$551,572.71 \$19,505.09 \$48,762.72 \$18,066.59 \$50.11.83 \$9,752.54 \$1,270,659.03 | \$1,922,880.75 \$698,951.89 \$488,350.67 \$1,465,052.00 \$45,782.87 \$152,060.58 \$4,773,627.76 \$120,748.48 \$591,667.56 \$712,416.04 \$512,486,043.80 |
| Budget | Raw Water | \$651,980.00 \$236,250.00 \$23,285.00 \$69,855.00 \$316,128.00 \$17,500.00 \$336,875.00 \$336,875.00 | 00°00000000000000000000000000000000000 | \$363,744.56 \$313,283.70 \$59,306.18 \$19,768.73 \$1,277,958.00 \$31,629.96 \$79,074.90 \$29,297.25 \$87,891.76 \$2490,264.41 \$316,299.62 \$490,244.41 | \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 |
| | Bond Payments | \$616,934.60 \$216,808.44 \$22,033.38 \$66,100.14 \$546,773.84 \$317,280.65 \$17,626.70 \$88,133.51 \$343,720.70 \$1,935,411.96 | \$875,246.70 \$218,811.68 \$125,035.24 \$350,098.68 \$125,035.24 \$50,014.10 | \$1,712,058.54 \$1,003,613.18 \$279,139.98 \$93,046.66 \$560,546.61 \$2,387,964.82 \$112,109.32 \$112,109.32 \$188,359.98 \$97,861.37 \$522,084.11 \$19,359.64 \$74,437.33 \$0.00 | 00.00000000000000000000000000000000000 |
| | Total Budget | \$1,951,565.68 \$693,500.71 \$69,698.77 \$209,096.32 \$776,986.21 \$983,035.36 \$54,545.67 \$178,607.48 \$1,058,934.47 | \$1,544,272.21 \$386,068.05 \$220,610.32 \$617,708.88 \$220,610.32 \$88,244.13 | \$2,597,464.86 \$1,730,556.11 \$423,499.70 \$1,369,646.32 \$4,839,840.81 \$186,319.26 \$186,930.02 \$186,930.02 \$186,930.02 \$186,930.02 \$186,930.02 \$186,930.02 \$186,930.02 \$186,930.03 \$290,172.87 \$622,086.13 \$340,233.03 \$340,233.03 \$510,349.55 | \$2,111,745.56 \$775,847.42 \$491,154.53 \$1,467,855.86 \$46,717.50 \$207,506.27 \$5,100,827.13 \$134,007.87 \$651,764.99 \$785,772.85 \$5,886,599.98 |
| | Entity | SAWS Cibolo SAWS/Springs Hill-Prorated Oct-Dec SAWS-Prorated Jan-Sep East Central Green Valley Marion Crystal Clear Springs Hill | Mid Cities SAWS Cloolo SAWS/Cloolo East Central Green Valley Marion | Wells Ranch SAWS/Springs Hill-Prorated Jan-Sep SAWS-Prorated Oct-Dec East Central Green Valley Marion Converse Crystal Clear/Cibolo Prorated Oct-Dec Crystal Clear Prorated Oct-Dec Crystal Clear Prorated Clear Springs Hill County Line Maxwell | LD/MC/WR Blended O&M SAWS Cibolo East Central Green Valley Marion Converse LD/MC/WR Cost Per 1,000 gallons LD/WR Cost Per 1,000 gallons LD/WR |

CANYON REGIONAL WATER AUTHORITY FY 2024

Board of Trustees Meeting September 11, 2023

| Budget | |
|--------|--|
| | |

| | | | | Budget | | | | | |
|--|---|---|--|--|---|---|---|--|---|
| Entity | | Total Budget | Bond | Raw Water | Plant O&M | Membrane Funds | Line Use & Delivery | Repair & Replacement | CRWA |
| Hays Caldwell | | | | | | | | | |
| system of the sy | County Line Crystal Clear Martindale Maxwell San Marcos | \$2,058,098.78 \$803,164.68 \$457,370.21 \$1,406,526.78 \$222,293.31 | \$479,469.18 \$190,036.33 \$191,023.21 \$362,771.60 \$0.00 | \$188,600,00 \$59,092,00 \$19,262,00 \$113,696,00 | \$759,831.03 \$302,067.70 \$101,139.59 \$490,592.60 | \$140,519.25 \$53,715.31 \$47,914.06 \$96,687,56 | \$279,710.66 \$116,834.37 \$43,628.47 \$198,980.21 | \$65,193.39 \$24,921.02 \$22,229.55 \$44,857.84 | \$144,775.28 \$56,497.96 \$32,173.33 \$98,940.98 |
| Cost Per 1,000 gallons Hays Caldwell Totals | 100 gailons | \$4,947,453.77 | \$1,223,300.32 | \$380,680,00 | \$0.00 \$0.89 \$1,653,630,92 | \$141,163.83 \$480,000.00 | \$639,153,71 | \$65,492.44 4000 GGA 32 | \$15,637.04 |
| Alliance Regional Water | | | | | | ir 10 | | | 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| C Alliance Regional WaterTotals | Crystal Clear County Line Martindale Green Valley | \$3,461,809.10 \$532,013.19 \$40,726.41 \$2,140,560.72 \$ 6,275,109.42 | \$0.00 \$0.00 \$0.00 \$0.00 | \$0.00 \$0.00 \$0.00 \$0.00 | \$3,461,809.10 \$632,013.19 \$40,726.41 \$2,140,560.72 \$6,275,109,42 | \$0.00 \$0.00 \$0.00 \$0.00 | 90°0\$ 90°0\$ 90°0\$ | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | 00.0余 00.0余 00.0余 |
| City of La Vernia | | \$79,797,19 | \$0.00 | \$57,023,93 | \$0.00 | \$0.00 | \$17,160.00 | 00 . 00 | \$5,613,27 |
| WR/MC Buy-In - Converse | | \$269,770,00 | \$269,770.00 | \$0°0 | 00°0\$ | \$0.00 | 00.0% | 00'0 | \ 6 |

\$1,131,682.83 Increase in Projected Sales & Cost per 1000/gallons \$507,674.91 Increase in Fixed Operations & Maintenance \$1,286,786,41 Increase In Alliance Regional Water \$2,926,144,15

\$1,854,409.67 \$518,952.50

\$691,229.97 \$1,742,000.00 -\$34,916.26 \$25,000.00

\$541,867.57 \$0.00

\$13,630,207.63 \$2,926,144.15

\$6,645,340,02 \$55,321,02

\$12,766,256.11 -\$773,450.65

\$37,871,310,97 \$2,717,050,75

\$2,373,362.17

\$656,313.71 \$1,767,000.00

\$541,867.57

\$16,556,351,78

\$6,700,661.04

\$11,992,805,46

\$40,588,361,72

CRWA FY 2024 Total Budget

CRWA FY 2023 Total Budget Difference

\$0.00

40.00

CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------------|--------------------------------|----------------|
| 09/11/2023 | Engineering Services Agreement | CRWA 23-09-053 |
| | | |

INITIATED BY

JOHN KAUFMAN / ADAM TELFER / DAVID McMULLEN

STAFF RECOMMENDATION

Approve a partial engineering scope of work with Ardurra Group, Inc. ("Ardurra") for preliminary design services of the Hays Caldwell WTP Membrane Improvement Project for a cost not to exceed \$110,528.00 and approve a corresponding reimbursement resolution.

BACKGROUND INFORMATION

Ardurra was chosen by the ad hoc Hays Caldwell SOQ selection committee to prepare a scope of work and cost for design services in support of the Hays Caldwell WTP Nanofiltration Improvement Project that will bring the membrane treatment capacity to 6.0 MGD. Ardurra's scope of work includes a preliminary engineering design of the following project components:

- Demolition of existing membrane prefilters, membrane racks, and all ancillary components inside
 the membrane building and replacement with new membranes and associated subsystems and
 components such as membrane feed pumps, prefilters/strainers, backwash pumps, clean-in-place
 (CIP) chemical transfer pumps, and CIP waste handling equipment and associated piping, valves,
 actuators, and other appurtenances.
- Up to two (2) improvement alternatives will be evaluated for the membrane building improvements. Potential alternatives include the following and will be refined during the preliminary engineering evaluation: (1) expansion of the existing membrane building to provide space to house the new equipment; and (2) construction of a new membrane building to house new equipment.
- Associated architectural, structural, HVAC plumbing and fire protection, electrical, instrumentation control (SCADA), and site civil work for the proposed improvements.

Staff recently met with representatives of Hays Caldwell Entities, the City of San Marcos, and Ardurra to review Ardurra's proposed Scope of Work for the project. Based on these discussions and general agreement among the Entities and the City, Staff recommends that Ardurra be authorized to initiate design services under Task 1 for General Project Management and Quality Control, Task 2.1 of Task 2.0 for Data Collection and Review, and Task 3.1 of Task 3.0 for a Pilot Testing Protocol. Ardurra's proposed scope of engineering services for the preliminary design of the Project is attached. A Service Order will be prepared and executed pursuant to approval of this resolution.

FINANCIAL IMPACT

The financial impact is \$110,528.00 which will be reimbursed pursuant to a corresponding reimbursement resolution.

MOTION

Motion to approve the following resolution.

AT for GM

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-053

BE IT RESOLVED that a Service Order with Ardurra Group, Inc. (a Florida Corporation) to initiate design services under Task 1 for General Project Management and Quality Control, Task 2.1 of Task 2.0 for Data Collection and Review, and Task 3.1 of Task 3.0 for a Pilot Testing Protocol of Ardurra's overall scope of work for preliminary design services in support of the Hays Caldwell WTP Nanofiltration Improvement Project at a cost not to exceed \$110,528.00 is approved.

Be it further RESOLVED that the expensed funds for this project will be reimbursed to Canyon Regional Water Authority through a Reimbursement Resolution.

| 59 | Adop | ted this 11 th | day of Septe | mber 2023 | |
|----------------------------|---------------------------------------|---------------------------|--------------|-----------|-------------------------------------|
| | Ayes | _ Nays | _ Abstained | Absent | |
| | | | | | |
| | | | Approve | ed by: | |
| | | | | | Timothy D. Fousse, CPM President |
| | | | | | |
| Certified and attested by: | · · · · · · · · · · · · · · · · · · · | Doris Ste | | | |



August 10, 2023

Mr. John M. Kaufman General Manager Canyon Regional Water Authority 850 Lakeside Pass New Braunfels, Texas 78130-8233

Regarding:

Hays Caldwell Water Treatment Plant (HC WTP) Membrane Improvements

Proposal to Provide Professional Engineering Services for Preliminary Engineering Design

& Report

Dear Mr. Kaufman:

Ardurra Group, Inc. is excited to have the opportunity to submit this proposal to the Canyon Regional Water Authority (CRWA) to provide professional engineering services for preliminary engineering design and development of a preliminary engineering report (PER) for the CRWA HC WTP Membrane Improvements project.

Please find the attached Detailed Scope of Services description, level of effort fee estimate, and anticipated project schedule.

Based on the scope of services described in Attachment A, we propose to complete the work in the following amount:

| Task | BASIC SERVICE TASKS | ADDITIONAL SERVICE TASKS | Notes |
|---|------------------------|--------------------------------|---|
| Task 1.0 - GENERAL PROJECT MANAGEMENT AND QUALITY CONTROL | \$75,728.00 | | |
| Task 2.0 - MEMBRANE ALTERNATIVE EVALUATION | \$60,252.00 | | Opportunities available for LOE optimization, pending final direction from CRWA |
| Task 3.0 - MEMBRANE PILOT STUDY | \$179,603.00 | | Opportunities available for LOE optimization, pending final direction from CRWA |
| Task 4.0 - PRELIMINARY ENGINEERING DESIGN | \$402,390.50 | | |
| Task 5.0 - REGULATORY AGENCY COORDINATION WITH TCEQ | \$28,581.00 | | |

| TOTAL | \$769,943.50 | \$309,032.00 | |
|---|--------------|--------------|---|
| Task 8.0 - MISC. ADDITIONAL SERVICE TASKS | \$23,389.00 | \$72,635.00 | |
| Task 7.0 - MEMBRANE BUILDING CRITICAL DIMENSIONS/ELEVATIONS 3D LASER SCANNING | | \$35,595.00 | Required only if PER recommendation is to expand existing membrane bldg. |
| Task 6.0 - TWDB DWSRF FUNDING APPLICATION SUPPORT SERVICES | | \$200,802.00 | Required if CRWA would like to pursue State or Federal funds opportunities |

We look forward to beginning work on this important project and appreciate the opportunity to continue serving CRWA. Should you have any questions or need additional information, please feel free to contact me via email at ysun@ardurra.com, or via phone at 713.208.9463.

Respectfully,

Yue Sun, PE, BCEE

Group Leader / Project Director

SCOPE OF SERVICES FOR CANYON REGIONAL WATER AUTHORITY HAYS CALDWELL WATER TREATMENT PLANT NANOFILTRATION SYSTEM IMPROVEMENTS PRELIMINARY ENGINEERING DESIGN PHASE

GENERAL

Canyon Regional Water Authority (CRWA) Hays Caldwell Water Treatment Plant (HC WTP) provides treated water to Maxwell Water Supply Corporation, Martindale Water Supply Corporation, Crystal Clear Special Utility District, and County Line Specifical Utility District. Following planned capacity improvements, treated water will also be pumped to the city of San Marcos. The plant is currently rated for 3.44 MGD and is being upgraded to a treated flow capacity of 6 MGD, with the exception of the existing prefilters and membrane filtration system. The existing membrane system is Koch Targa II membrane filters which are failing and no longer manufactured. The purpose of this project is to upgrade the existing prefilter system and replace the existing Kock Targe II membranes. The replacement membranes will need to provide a production capacity of 6 MGD with a N+1 configuration.

The general scope of work includes preliminary engineering design of the following components based on a site visit and scoping meeting conducted on July 5, 2023:

- Demolition of existing membrane prefilters, membrane racks, and all ancillary components inside the existing membrane building and replacement with new membranes and associated subsystems and components such as membrane feed pumps, prefilters/strainers, backwash pumps, air scour blowers & compressors, clean-in-place system (CIP tank, CIP pumps, CIP chemical transfer pumps, and CIP waste handling equipment) and associated piping, valves, and actuators etc.
- Up to two (2) improvement alternatives will be evaluated for the membrane building improvements. Potential alternatives include the following and will be refined during the preliminary engineering evaluation: 1) expansion of the existing membrane building to provide additional space to house new equipment; 2) construction of a new membrane building to house new equipment.
- Associated architectural, structural, HVAC plumbing and fire protection, electrical, instrumentation control SCADA, and site civil work for the proposed improvements.

Upon receipt of notice to proceed, Engineer shall conduct alternative evaluation and development studies and perform preliminary engineering design service. Preparation of final design construction contract documents, assistance during bidding phase, engineering services during construction, commissioning and startup services, and application engineering services, will be included in future contract amendments.



SCOPE OF WORK

The scope of work presented below describes the base level of services for this project by project task. Unless noted otherwise, all deliverables will be electronic PDF.

TASK 1.0 – PROJECT MANAGEMENT AND QUALITY ASSURANCE (BASIC SERVICE TASK)

1.1. Project Work Plan

Engineer will prepare a written project work plan that outlines the project scope and establishes procedures and protocol for executing the project. The project work plan will include: the scope of work; schedule; organizational structure; communications plan; document management procedures; and quality management procedures. The project work plan will be dynamic in nature and therefore periodically updated as required; action items and decisions will be tracked in an Action Item List and Decision Log.

Deliverables: Project Work Plan

1.2. Project Progress Meetings

Engineer will conduct an initial kickoff meeting with CRWA to introduce project team members, establish protocol and lines of communication, review project goals and objectives, gather all available documents pertinent to the project, and review the scope of work, and schedule.

Monthly progress meetings will be held during the course of the project with the CRWA staff to discuss aspects of the project tasks presently underway, review progress, project schedule, and upcoming issues. These meetings will generally be about two hours in duration. The appropriate Engineering team members shall attend the meetings to discuss pertinent issues. Up to four (4) progress meetings are planned for this Preliminary Engineering Phase of the project. Engineer will prepare draft meeting minutes within seven business days to submit to CRWA for review and approval. Final minutes will be issued after incorporating review comments.

All meetings will be held via Teams.

Deliverables: Meeting agenda and minutes

1.3. Project Team Coordination

Engineer will conduct regular coordination meetings with design team and subconsultants to coordinate design tasks, review all project elements, to facilitate development of preliminary engineering design. Up to six (6) internal team coordination meetings are planned for the Preliminary Engineering Phase of the project.

1.4. Quality Assurance/Quality Control

Engineer will perform quality assurance/quality control procedures during the project phase. These procedures will include a technical review of interim deliverables by senior technical advisors who are not directly involved with the project. The technical review will provide comments and suggestions concerning the various project deliverables for incorporation prior to submitting to CRWA. A half-day internal review meeting will be conducted for the Draft Preliminary Engineering Report to discuss technical review comments.



Deliverables: Internal documentation of technical reviews and response logs

1.5. Project Monthly Progress Report and Invoices

Engineer will track and update the budget, schedule, progress of work, and potential changes to the scope of work. Engineer will provide a project status report and submit it with monthly invoice. The project status report will include summary of work completed to date, work planned for upcoming month, and schedule update as needed.

Deliverables: Project status reports and monthly invoices

Phase 1 Conceptual Design /Basis of Design Technical Memorandum TASK 2.0 – MEMBRANE ALTERNATIVE EVALUATION (BASIC SERVICE TASK)

2.1. Data Collection and Review

Engineer will obtain and review available historical water quality data, plant operation data, operation reports, and other pertinent records, including but not limited to:

- Plant flows for last 5 years
- Available water quality data throughout treatment processes for last 5 years
- Plant disinfection CT study
- Electrical power billing record for last 5 years
- Any improvement projects and study reports since the commission of the plant

Engineer will prepare a data request list and review with CRWA at the Kick-off meeting. It is assumed data requested will be provided to the Engineer in an electronic format. Upon receiving the data, the Engineer will review, analyze, and perform a water balance analysis to develop the basis of design flow and hydraulic loading for the membrane improvements.

During the course of the project Engineer may identify other pertinent documents such as existing equipment O&M manuals and will make a request to CRWA.

2.2. Alternative Development and Conceptual Design

Under Phase 1, Engineer will evaluate membrane alternatives for the improvements. Engineer will utilize historical water quality data, full-scale membrane operation and performance data, and previous available pilot study report and studies to develop a process flow diagram, preliminary design parameters, conceptual equipment sizing and layout, planning level cost estimates in the alternative evaluation. Up to three (3) membrane systems (polymeric and ceramic) will be included in this evaluation.

Each of the three alternatives will be conceptually developed in sufficient details to conduct a present worth cost analysis.

Deliverables: Basis of Design Tech Memo Presenting Membrane Conceptual Design and Evaluation

2.3. Alternative Evaluation



Engineer will evaluate membrane alternatives using criteria developed under Workshop 1 as described below. Engineer will develop conceptual level construction and O&M costs and non-cost screening criteria for each of the alternatives. Engineer will prepare a Technical Memorandum that documents alternative development, presents the evaluations, and recommends proposed improvement for pilot testing. Engineer will recommend up to two (2) membrane systems that best meet CRWA's project goals for subsequent pilot study.

Deliverables: Basis of Design Tech Memo Presenting Membrane Conceptual Design and Evaluation

2.4. Workshops

Engineer will conduct a series of workshops during this phase with CRWA staff and their stakeholders. Appropriate staff from Ardurra team, experienced in the individual topics to be covered at the workshops, will be available as needed to participate in each workshop. Engineer will provide a summary following each of the workshops, documenting the outcome and presenting action items to be completed.

Workshop 1 – Membrane Alternative Development. A 2-hour workshop (via Teams) will be conducted to discuss alternative membrane technologies that may be evaluated for the membrane conceptual evaluation. The workshop will be conducted in conjunction with one of the Progress Meetings.

Both cost and non-cost evaluation criteria will be developed. The workshop will be conducted after historical facility operational and performance data have been gathered and analyzed. An example of evaluation criteria is provided in Table 1. This will be further refined with CRWA during the workshop.

CRWA staff will provide primary input as to the relative importance or weighting of the criteria. Subsequent Evaluations will be performed for the alternatives that are selected and agreed upon by CRWA.

Table 1 – Alternative Evaluation Criteria

Evaluation Criteria

| | Evaluation Criteria | Weight |
|----------|---|--------|
| | Capital Cost | TBD |
| Cost | O&M Cost | TBD |
| | Life Cycle Costs | TBD |
| Non-Cost | Operational Flexibility and Complexity | TBD |
| | Maintenance Requirements | TBD |
| | Site Impacts & Expandability | TBD |
| | Ease of Implementation and Constructability | TBD |



| Impacts on Water Quality | TBD |
|---|-----|
| TOTAL | |

Deliverables:

Workshop agenda and summary.

Workshop 2 – Alternative Ranking and Selection. A 2-hour workshop (via Teams) will be conducted to discuss the membrane alternative evaluations and to conductan alternative matrix analysis that ranks the alternatives based on weighted cost and non-cost criteria. The workshop will be conducted after alternatives evaluation and conceptual design is complete. Up to two (2) membrane technologies will be recommended for subsequent membrane pilot study. The workshop will be conducted in conjunction with one of the Progress Meetings.

Deliverables:

Workshop agenda and summary.

TASK 3.0 - MEMBRANE PILOT STUDY (BASIC SERVICE TASK)

Following selection of membrane alternatives, a membrane pilot test will be conducted to develop full-scale design criteria and obtain regulatory approval from TCEQ. The pilot test will be conducted on the selected membrane system(s).

3.1. Pilot Testing Protocol

Engineer will develop a pilot testing plan that will be a comprehensive guide to the activities to be undertaken during the pilot phase investigations. The pilot testing protocols will outline and address the following:

- Objectives and goals.
- State requirements for membrane pilot testing.
- Raw water quality and treatment goals.
- Pilot layout, design criteria, ancillary requirements.
- Schedule.
- Testing procedures and description of operations.
- Testing matrix outlining the conditions, flows, loadings, duration, runs, and other relevant information for each proposed testing series.
- Water quality sampling, testing, and monitoring. It is assumed that CRWA will pay for laboratory testing. Analytical testing can be handled either via their in-house or contract testing laboratory. Engineer will assist to identify certified laboratories.
- Quality Assurance/Quality Control (QA/QC) procedures.
- Roles, responsibilities, and communications.
- Data collection, processing and reporting.

The Pilot testing protocol will be developed following TCEQ guidance for membrane pilot testing. The pilot study protocol will be submitted to CRWA for review comments. Upon incorporating review comments, the final test protocol will be submitted to TCEQ and comments will be incorporated into the Final Protocol prior to implementation.



Engineer will coordinate with membrane suppliers and obtain pilot equipment data (dimensional drawings, design loading, hydraulics, analyzers and instruments, power requirements, etc.) and discuss the approved Pilot Testing Protocol with the membrane system supplier. This is to ensure that the supplier understands pilot testing requirements, data monitoring, and reporting, to meet expectation for subsequent pilot study report submittal.

Deliverables: Draft and Final Pilot Study Protocol.

3.2. Pilot Plant Facilities

The pilot plant will consist of membrane module pilot skids from the membrane system supplier(s), to mimic the full-scale treatment process as proposed for the improvements.

Pilot Facilities Design Document Development: Engineer will develop design documents of the pilot facilities for inclusion in the membrane pilot protocol. The documents will include:

- One line drawing indicating electrical supply and feed requirements.
- Process flow schematics indicating the arrangement of components, interconnection pipe sizes, valves & fittings, and other information.
- Raw water supply general layout drawings.
- Disposal of treated water, waste backwash water, chemical cleaning waste after neutralization.
- General plan view showing arrangement of equipment and key components.

Engineer will also assist to identify chemical suppliers that would be required for the pilot testing, estimated chemical quantities and obtained chemical safety handling procedures. It is assumed that pilot testing chemicals will be paid for by CRWA.

Pilot Facilities Installation and Start-up Assistance: The membrane system supplier is responsible for procuring pilot equipment in accordance with the membrane pilot facility design document. Construction of the pilot facilities, installation of the equipment, and demolition of the pilot facilities will be handled by the membrane system supplier. Shipping and unloading of the pilot equipment shall also be handled by the membrane system supplier. Engineer will coordinate delivery schedule with CRWA.

Engineer will make four (4) site visits (up to 8 hours each) to oversee construction of the pilot facilities and installation of pilot testing equipment. Engineer will perform a final walkthrough to make sure pilot setup/construction and equipment installation are in accordance with the layouts prepared. This level of effort assumes two (2) personnel for each site visit.

Engineer will participate in start-up and confirm that systems are operational. This level of effort assumes two (2) personnel in the field for a total of four site visits (8 hours each) to complete installation oversight, final walkthrough, and start-up of the pilot.

3.3. Pilot Operations

Engineer will provide personnel to maintain routine operation of the pilot, monitor and collect data required from the pilot equipment in accordance with the pilot sampling, monitoring, and analysis plan outlined in the Pilot Testing Protocol. Engineer will collect field water samples (raw,



membrane feed, membrane filtrate, waste backwash water, etc.), perform onsite field testing at either HC WTP or LD WTP lab, and coordinate required analyses by certified laboratories. Engineer will be responsible for coordinating with testing laboratory for delivery of sample bottles, chain-of-custody, and sample shipment. Engineer will document daily operation logs, event logs, field grab sample results, field issues and observations etc.

Engineer will provide one half-time staff (eight hours per day on Mondays and Wednesdays, and 4 hours per day on Fridays) to maintain operations and collect the data required from the pilot equipment. For Tuesdays, Thursdays and weekends, CRWA staff will support the pilot operations.

- Initial start-up: It is expected that following completion of the pilot equipment set up activities, one week of piloting will be performed to validate operations, establish standard operating procedures (SOPs), and prepare for routine pilot operations.
- Routine Pilot Operations: Pilot operations will be conducted for a period of up to four (4) months and will be focused on validating design criteria, operating parameters, and treatment performance. Engineer will be responsible for routine daily operation during pilot testing.
- Regular communications: Throughout the pilot testing, Engineer will conduct weekly calls with the membrane supplier to review pilot operation, performance and any field issues. It is assumed each call will be 30- minutes in length.

3.4. Pilot Study Report

Upon completion of the pilot testing, Engineer will prepare a draft pilot study report to summarize results and findings. The pilot study report will be developed in accordance with TCEQ requirements. The draft report will be submitted to CRWA for review comments. Upon incorporating review comments, the final report will be submitted to TCEQ for review and approval.

Three (3) pilot testing review meetings will be held over the course of the pilot study to present interim results and findings to CRWA. The review meetings will be held at the end of each pilot testing stage, and it is anticipated that each meeting will be up to two hours in length.

Deliverables: Draft and Final Pilot Study Report; Pilot Testing Review Meeting Agenda and Summary.

Phase 2 Preliminary Design

TASK 4.0 - PRELIMINARY ENGINEERING DESIGN (BASIC SERVICE TASK)

The Engineer shall perform the following tasks as part of the preliminary engineering design of the project.

4.1. Preliminary Engineering Design

The Preliminary Engineering Design Phase will provide a 30% complete design of the project. It will include the Preliminary Engineering Report (PER) and 30% complete level drawings. The work under this phase will include the following items:



- Develop and finalize design criteria
- Develop facility sizing and produce equipment data
- Perform hydraulic analyses pertinent to membrane system
- Conduct building code analysis
- Develop membrane improvements power loads and produce electrical one-line diagram
- Develop SCADA system architecture
- Develop preliminary specifications table of contents
- Develop preliminary design, including the following discipline level
 - ▶ Process and Instrumentation Diagrams (P&IDs) to 50%
 - ➤ Process Mechanical to 50%
 - Site Civil, including site, yard piping, grading, and paving plans, to 30%
 - ➤ Structural to 20%
 - > Architectural to 20%
 - ➤ HVAC/Plumbing/Fire Protection to 20%
 - ➤ Electrical to 20%
- AACE Class 3 Level Opinion of Probable Construction Cost
- Preliminary Project Construction Schedule

The following subtasks will be performed in developing the Preliminary Engineering Report (PER) to determine the scope for the project to move into the Final Design. Appropriate graphics, charts, diagrams, tables, and drawings will supplement the text to provide a complete working summary document.

4.1.1 Membrane System Evaluations and 30% Drawing Development

Engineer will evaluate membrane and associated subsystem and recommend number and size of unit processes, standby equipment requirements, types of equipment to be used, and facility costs including:

- Membrane feed pumps
- Prefilters/strainers
- Membrane racks
- Backwash pumps
- CIP tank, chemical transfer pumps, and waste handling system
- Air scour blowers
- Compressed air system

Engineer will develop preliminary design drawings for the proposed improvements in accordance with the discipline level as defined above.

Proposed improvements will be designed in compliance with the requirements of applicable laws, codes, and regulations, and applicable design manuals.

4.1.2 Hydraulics

Engineer will evaluate the hydraulics associated with membrane system such that the impact of various flows can be evaluated and structures and piping properly sized. Partial hydraulic grade line drawings will be prepared. Hydraulics analysis will include membrane feed pump and



strainer hydraulics, CIP pump hydraulics, CIP chemical transfer pump hydraulics, backwash pump hydraulics, and CIP waste pump hydraulics etc.

4.1.3 Discipline Support Activities

As a portion of the Preliminary Engineering Report, the following items will be evaluated and included in the overall report preparation. In general, discipline design considerations will follow the same design philosophy that was established in the original design, unless otherwise directed by CRWA:

- Civil and Site Work PER will address grading, paving, drainage, stormwater mitigation.
- Structural Design PER will identify building codes that will apply to the design and develop structural design for expansion of existing building vs new building.
- Architectural Design—PER will address the architectural design of the existing Building expansion and modifications required vs new building. Plan views and representative sections for the buildings will be included in the PER.
- HVAC, Plumbing, and Fire Protection PER will address the HVAC, plumbing and fire protection requirements for the proposed improvements for building expansion and new building alternatives.
- Electrical Design PER will discuss the power requirements for the proposed improvements, develop electrical load list and one-line diagrams, and electrical room layout for the existing building expansion and new building options.
- Instrumentation, Control, and SCADA Design PER will present instrumentation and control philosophy and develop the preliminary process and instrumentation diagrams and SCADA system architecture. Evaluate SCADA HMI and integration for the proposed improvements.

4.1.4 Preliminary Cost Estimates

Engineer will prepare a quantity take-off and develop preliminary opinions of probable construction costs (OPCC) for construction in accordance with AACE Class 3. The cost estimating assumptions and cost summaries will be included in the PER.

4.1.5 Constructability Review and Overall Construction Schedule

Engineer will identify potential construction constraints and develop a construction sequencing and staging plan in order to maintain plant operation during the expansion. Engineer will address constructability concerns and determine the overall construction schedule for the proposed improvements.

4.1.6 Preliminary Engineering Report

Engineer will prepare a PER that will incorporate the above items evaluated in the Preliminary Engineering Design Phase and present the proposed plans in the PER. The PER will include plant design criteria and the proposed list of major equipment, preliminary layouts of facilities,



structures and buildings, P&IDs, site plan and yard piping layouts, driveways, and electrical facilities.

A draft Table of Contents for this deliverable is as follows:

- Executive Summary
- Section 1 Introduction and Project Background
- Section 2 Historical Data Review
- Section 3 Water Balance and Basis of Design Flow
- Section 4 Membrane Expansion Alternative Evaluation
- Section 5 Architectural Design Considerations
- Section 6 Structural Design Considerations
- Section 7 HVAC, Plumbing, and Fire Protection
- Section 8 Electrical Design Considerations
- Section 9 Instrumentation, Control and SCADA Design
- Section 10 Civil and Site Work
- Section 11—Construction Schedule and OPCC

Deliverables: Electronic submittal of draft and final Preliminary Engineering Reports, and 30% Level Drawings

4.2. Specific Workshops

Engineer will conduct two workshops during the Preliminary Engineering Design phases with CRWA to develop project direction for various items related to the project. Engineer will provide a summary document following each of the workshops, documenting the outcome and presenting action items to be completed.

4.2.1 Membrane Building Alternative

Two membrane building alternatives will be evaluated, including 1) expanding existing membrane building to accommodate the proposed improvements; 2) constructing a new membrane building for the proposed improvements. The building alternative evaluation workshop will review preliminary layout of each building alternative, site plan, architectural design consideration, structural design requirements, building mechanical, electrical room layout, instrumentation, control and SCADA integration aspects of each alternative. This workshop is anticipated to be no more than two hours in length and will be conducted via Teams in conjunction with one of the Progress Meetings.

Deliverables: Workshop Agenda and Minutes

4.2.2 PER Review Workshop

A review workshop with CRWA will be conducted for the Preliminary Engineering Design phase. This workshop will be held approximately two weeks following submittal of the draft Preliminary Engineering Design deliverable to provide time for CRWA review, and comment collection & compiling. Following their review, CRWA staff will provide written comments to the Engineer. Engineer will then provide a written response to these comments and incorporate revision in the final PER. The review workshop will be approximately 4 hours and will be conducted via Teams.

Deliverables: Workshop Agenda and Review Comment & Response Log



TASK 5.0 – REGULATORY AGENCY COORDINATION WITH TCEQ AND LOCAL GOVERNMENTAL AUTHORITIES (BASIC SERVICE TASK)

5.1. TCEQ Coordination Meetings

Engineer will coordinate and attend up to two (2) virtual meetings with CRWA and TCEQ regarding the project. Each meeting is anticipated to be one hour in length. Potential topics to cover may include process design criteria, the potential for obtaining exceptions, key regulatory review components, and review workflow process for the proposed improvements.

Deliverables: Meeting agenda and minutes

5.2. Local AHJ Coordination Meetings

Engineer will coordinate and attend up to two (2) virtual meetings with CRWA and local authority having jurisdiction (AHJ) regarding the project. Each meeting is anticipated to be one hour in length. Potential topics to cover may include process design criteria, the potential for obtaining exceptions, key regulatory review components, and review workflow process for the proposed improvements.

Deliverables: Meeting agenda and minutes

5.3. Regulatory Review and Permit Checklist

Engineer will conduct a preliminary assessment to identify project related code and permit requirements, develop a regulatory and permit review checklist to outline deliverable milestones, regulatory and permit review timeline, and proposed schedule for compliance. The project Regulatory and Permit Review Checklist will be included in the PER.

Deliverables: Regulatory and Permit Review Checklist

5.4. PER TCEQ Submission

Engineer will coordinate external regulatory review with TCEQ to ensure compliance with TCEQ rules and regulations. Engineer will submit Preliminary Engineering Report to TCEQ for review. Upon receipt of review comments, Engineer will address and incorporate in the Final PER.

Deliverables: PER and TCEQ Comments and Response Log

TASK 6.0 – TWDB DWSRF FUNDING APPLICATION SUPPORT SERVICES (ADDITIONAL SERVICE TASK)

Engineer will perform the following tasks in support of the project funding application. Since the improvements are anticipated within the existing WTP site, US ACE permit, threatened and endangered species habitat evolution, Archaeological Pedestrian Survey are not included in the following funding services.

6.1. Funding Opportunities Workshop

Engineer will conduct a workshop with CRWA to identify available project funding sources such as TWDB SWIFT, TWDB DWRSF, and EPA WIFIA, review project eligibility, application process, document requirements, and timeline etc. to support the improvements project. The workshop is



anticipated to be two (2) hours in length.

Deliverables: Workshop Agenda and Meeting Minutes

6.2. Funding Application Assistance

6.2.1 TWDB SWIFT Funding Application and Processing

Prepare an application and necessary exhibits for funding assistance from the Texas Water Development Board (TWDB) through the SWIFT funding mechanism and submit the application by the statutory deadline.

Coordinate with TWDB as necessary to complete the application.

6.2.2 TWDB DWSRF Funding Application and Processing

Prepare an application and necessary exhibits for funding assistance from the Texas Water Development Board (TWDB) through the Drinking Water State Revolving funding mechanism by completing the DWSRF IUP Solicitation Packet — Project Information Form.

Prepare an application and necessary exhibits for funding assistance from the TWDB though the Drinking Water funding mechanism by completing the DWSRF application and supporting exhibits.

Coordinate with TWDB as necessary to complete the application.

6.2.3 A Third Funding Application and Processing

Depending upon recommendation from the funding opportunity workshop, prepare a third application and necessary exhibits for funding assistance from the identify state or federal funding mechanism and submit the application.

Coordinate with funding agency as necessary to complete the application.

6.3. Environmental Review Services for TWDB Funds

Engineer will prepare necessary environmental documents required in support of the funding application, in accordance with National Environmental Policy Act (NEPA) regulations and applicable TWDB guidance. The Environmental Information Document (EID) will be prepared using TWDB-0801 form. The EID will include the project area within the current plant boundaries and an area outside the current fence line where the new 24-inch water line will be routed through. Engineer will coordinate with regulatory agencies, including but not limited to the US Army Corps of Engineering, US Fish & Wildlife Service, Texas Historical Commission, Texas Parks and Wildlife Department, and Department of Agriculture etc. The draft document will be submitted to CRWA for review and comment. Engineer will incorporate the comments in the final document and submit to TWDB.

Engineer will coordinate with CRWA and conduct a Public Meeting as part of the TWDB EID requirements. Engineer will prepare a Public Meeting Notice for CRWA to use and publish in local newspaper 30 days in advance of the meeting. Engineer will prepare meeting materials including sign-in sheet, PowerPoint presentation, and meeting hand-outs. CRWA will be responsible for publishing the Notice in local newspaper and providing a local source for public to view the EID document prior to the meeting.

Upon completion of the Public Meeting, Engineer will include public participation documentation such as publisher's affidavit and a copy of the meeting notice, statement signed by CRWA,



meeting sign-in sheet, meeting summary, and comments received and responses in the final EID.

Engineer will coordinate and address TWDB comments received to obtain final approval.

Deliverables: Draft and Final EID

Public Meeting Notice

Public Meeting Materials including sign-in sheet, handout (up to 10 copies),

and PowerPoint Presentation

Public Meeting Participation Documentation

6.4. Engineering Feasibility Report for TWDB Funds

Engineer will prepare an Engineering Feasibility Report (EFR) and submit it to TWDB for funding application support. The report will be prepared in accordance with TWDB Guidance Document TWDB-0555 and include the following information: project general description, alternatives, project site conditions, treatment processes and design criteria, alternative methods for project delivery (if applicable), project cost and implement schedule, etc. The EFR will include the project components related to the membrane improvements.

Engineer will use the Preliminary Engineering Report as a basis to develop the EFR. Engineer will submit the draft EFR to CRWA for review and incorporate review comments in the final report.

Engineer will coordinate with TWDB and address TWDB's review comments for final approval.

Deliverables: Draft and Final EFR

6.5. Ongoing Coordination with Funding Agencies and Misc. Supporting Documents

The Engineer will provide ongoing coordination with funding agencies over the duration of the project PER phase and misc. supporting documents and deliverables necessary for the completion of the identified funding applications.

Engineer will coordinate and provide information for funding agency submittals and requests. Engineer will attend no more than two (2) virtual meetings with CRWA and funding agencies regarding the project. Each meeting is anticipated to be one hour in length.

Deliverables: Meeting agenda and minutes

TASK 7.0 – MEMBRANE BUILDING CRITICAL DIMENSION/ELEVATION 3D LASER SCANNING (ADDITIONAL SERVICE TASK)

If PER recommendation is to proceed with expanding the existing building, this task will be required in order to capture critical dimensions and elevations for final design development due to the poor quality of available Record Drawings.

Engineer will perform detailed as-built survey of the interior of the Membrane building using high-definition 3D laser scanning (Terrestrial LiDAR) Trimble 3D Laser scanning systems. Horizontal (NAD83) and Vertical (NAVD88) control will be established and transferred into the building. The High-Definition Survey will capture data with sub-centimeter level accuracy and detail to create a 3D pointcloud



replicating the as-built conditions. The 3D point cloud will be processed and exported to 2D CAD environment to create a complete CAD drawing of the building's interior infrastructure.

TASK 8.0 - MISCELLANEOUS ADDITIONAL SERVICE TASKS

These items are not part of the basic engineering services and will be added to the scope of services upon written authorization from CRWA. The services provided under this task will be used at CRWA's discretion on an as-needed basis.

7.1. CRWA Board Meetings

Engineer attend CRWA in-person meetings to provide project update and information to the CRWA Board of Managers, Construction Committee, and Board of Trustees over the course of project PER phase. These meetings will occur once a month. It is assumed no more than 27 meetings during the PER phase.

7.2. Feasibility Study for Taste and Odor (T&O) Control

The HC WTP has experienced seasonal fluctuations of earthy/musty T&O which is derived from the presence algal by-products such as methylisoborneol (MIB) and geosmin. There are several potential strategies for T&O control that include the addition of powdered activated carbon (PAC), adsorption using granular activated carbon (GAC) contactors and advanced oxidation processes (AOPs). The AOPs include ozone/hydrogen peroxide oxidation and ultraviolet (UV) light/hydrogen peroxide oxidation. Engineer will conduct a desktop, qualitative assessment of the available strategies.

The Engineer will contract with a specialist laboratory to conduct bench-scale tests that will include:

- Adsorption tests for PAC type, dose and contact time. Up to three kinds of PACs will be tested.
- Rapid small scale column tests (RSSCTs) to determine GAC loading rates, empty bed contact time (EBCT) and replacement frequency. Up to three RSSCTs will be performed.

Bench-scale tests will be conducted by spiking with MIB to simulate the worst-case water quality conditions.

Engineer will use the bench-scale test results and prepare life-cycle costs for each T&O alternative. From the desktop assessment findings, bench-scale test results and life-cycle cost estimates, the Engineer, in consultation with CRWA staff, will identify the best strategies for the full-scale plant consideration.

Deliverable: Tech Memo Summarizing Findings from Feasibility Study

7.3. HC WTP Misc. Enhancement



Per discussion with CRWA, it is desired to enhance current design of splitter box and chemical mixing mechanism in the Improvements project to enhance chemical mixing efficiency. Engineer will review the current design and propose modifications for design revisions.

In addition, CRWA staff expressed maintenance concerns with the proposed decant ponds. A better solution is desired by CRWA staff for plant residual handling. Engineer will perform a preliminary engineering design to look at alternatives for improving plant residual handling process. Recommendations can be incorporated in the final design of the membrane improvements project.

Deliverable: Tech Memo Summarizing Residual Handling Improvements

TASK 9.0 – OTHER SERVICE TASKS, CLARIFICATIONS AND EXCLUSIONS

Other service tasks will be negotiated with CRWA as needed, including additional studies and investigation as required to support recommended solution and/or as required to address system which may become affected as a result of the proposed work but not originally envisioned or as added by CRWA. These other services may include the following and will be authorized by CRWA in writing for an additional fee as agreed upon by CRWA and the Engineer:

- 1. Any additional meetings, outside of those listed herein
- 2. Pilot study analytical laboratory testing
- 3. Pilot plant construction and pilot equipment
- 4. Pilot testing chemicals
- Hydraulic transient analysis
- Topographic survey performed in the HC WTP Improvements project will be used. Any additional survey that is needed as identified during the PER phase will be performed in the final design.
- 7. Any off-site survey work outside the plant fence line
- 8. Subsurface utility engineering
- 9. Geotechnical Report performed in the HC WTP Improvements project will be used. Any additional geotechnical borings and laboratory testing that may be needed as identified during the PER phase will be performed in the final design.
- 10. Phase 1 and Phase 2 environmental site assessment (ESA)
- 11. USACE Permitting
- 12. Archeological investigation Services
- 13. ACI-ADI review for ADA compliance (anticipated for the final design phase)
- 14. Computational fluid dynamics (CFD) modeling
- 15. Electrical studies such as short circuit, coordination, motor starting, and arc flash studies (anticipated for the final design phase)
- 16. Plant-wide security system design
- 17. FAA permitting
- 18. Physical laboratory scale modeling
- 19. Drawings will be developed in 2D version of AutoCAD
- 20. Site landscaping



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| 1 | 1 Preliminary Engineering Design | | | | | | | | The second | | | | | A STATE OF THE PERSON NAMED IN | | The second | | | | | | | | |
| Column C | Membrane System Evaluations and 30% Drawing | | | | | | | - | | | 1 | | | | | | | | | | | | | |
| Fig. 10 Fig. | 1.1.1 Development (Two Building Alternatives) | | | - | + | | | | | | | | | | | | | | | | | | | |
| Fig. 10 Fig. | Membrane deed pumps sizing/layout | | 9 | DE ! | + | 1 | 1 | + | - | | | | | 36 | | | 26 | | | 9,450.00 | | 20.00 | | \$ 9.450.00 |
| Fig. 10 Fig. | Membrane racks staling/layout | | 4 = | P 49 | + | | | 1 | 1 | 1 | 1 | | | 25 | | 1 | Ø | | | 8,570.00 | | \$0.00 | | 5 8,570.00 |
| Fig. | Backwash pumps sizing/layout | | us | 2 | H | | | | | | + | | | × : | 1 | 1 | 96 | | | 16,720.00 | | 89.83 | | \$ 16,720.00 |
| 1 | and the state of t | | | | L | | | | | | | | | P. | | - | S | \$ 8,550.00 | | 8,560.00 | | 20.00 | | \$ 8,560,00 |
| 1 | pumps) and neutralization systems sizing/layout | | ņ | 9 | C-11 | | | | | | | | | | | | , | | | | | | | |
| 1 | Air scour blowers staing/layout | | 40 | OZ. | - | | | | | | | | | 36 | | | 89 | 1 | | 19,140,00 | | 30,00 | | 5 19,140,00 |
| Fig. 6 Fig. 6 Fig. 7 Fig. 6 F | etc.) staing/layout | | LO | c | | | | | | | | | | | | | | | | | | 30000 | | 5 6,33C,DO |
| The control of the | Existing Building expansion layout/Site Plan/Yard | | | | H | | - | - | - | | | | | 22 | | | So | \$ 8,690.00 | | 8,690.00 | | 20.00 | | \$ 8,690.00 |
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| 1 | 1.2 Hydraulics | H | + | + | + | | + | | 1 | | 1 | | 1 | 2 | 24 | | 120 | | | 20,220.00 | | \$0.00 | ٠ . | \$ 20,220,00 |
| 1 | .1.3 WTP Discipline Support Activities | - | H | | 40 | | + | + | 1 | | 1 | | | - | | | z | | | 12,780.00 | | \$0.00 | | \$ 12,780.00 |
| 1 | Civil, and Site Work | | | 5 | H | | 1 | + | 1 | | | | | | | 1 | ٥ | | | | | \$0.00 | S | s |
| 1 | Structural Design | | , , | a | H | | + | | - | 1 | + | I | | | | 1 | 46 | | | 7,500.00 | | 20.00 | , | \$ 7,500.00 |
| The control of the | Architectural Design | | 9 | t | H | 84 | + | | - | 1 | + | ļ | - | - | | + | 8 | - 1 | | 14,710.00 | - | 20.00 | | \$ 14,710.00 |
| S S S S S S S S S S | HVAC, Plumbing, and Fire Protection Design | | 4 | 11 | H | | + | 2 | - | | - | | ł | - | 1 | + | 823 | | | 22,164.00 | 1 | 20.00 | S | |
| Color Colo | Electrical Design | | 9 | 12 | | - | | | | | | | - | - | | - | 22 2 | I | | | | 0.02 \$16,920.00 | ys. | \$ 23,552.00 |
| 8 15 20 40 8 15 20 60 6 21 20 60 60 60 60 60 60 60 60 60 60 60 60 60 | Instrumentation, Control, and SCADA Design | | 9 | 17 | Н | | | 9 | | 9 | | | | | | | 20 50 | 1 | | | 149.00 | \$46,149.00 | \$ 4,614,90 | \$ 56,253.90 |
| 15 20 040 8 15 20 0411 8 25 20 05 11 20 | 1.4 Preliminary Cost Estimates Constructability Review and Overall Construction | | 83 | 12 | + | | H | Q | | | | | | | | - | 142 | J. | | 21.850.00 | | Sala | | 5 16.970.00 |
| 12 40 ED 6 13 34 54 55 55 55 55 55 55 55 55 55 55 55 55 | 3.5 Schedule | | ,6 | 22 | | 80 | ų | | | | | | | | | | 10000 | 1 | | | | 00/00 | | 2 41,860,00 |
| | 1.6 Preliminary Engineering Report (Draft and Final) | - | , | 1 | - | 1 | t | 1 | | | | | | | | | 108 | | | 21.120.00 | | 00.05 | | \$ 21,120,00 |

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|---|---|---------------------|--|---|--|---|-----------------|---|------------------------------|-------------------------|-------------------|---------------------------------------|-------------|------------------------------------|----------------------|------|----------|-------------------------|-------------------------------|---|---------------------|-----------------------------------|--------------------------|---------------------------------|-------------------------------|
| voltion | CA/CC Project /Technical Principal Specialist 5 | 3. Me 3. Me 3. Spec | Sr. Proj. Eng. [Process Mach]/ TWDB [Proj Broj 8] Specialist Mac | Proj Eng. (Process EIT (Proc Mach) Mech | Proj trg. To a Proj. May Proj tog. To a 2. Proj. May Proj. M | r Proj Eng. Eff c. (Arch/Struc, (Arch/Struc, | Arch/Struc, [18 | Sr. Proj. Mgr. Proj Eng. (REC/SCADA JREC/SCADA | Eng. EIT SCADA (BEC/SCADA | DA Sr. Env Scientist | Env. Scientist | S S S S S S S S S S S S S S S S S S S | Survey [2-4 | Field Crew Sr. CAD (2rew) Designer | AD CAO | Word | Contract | Ardura - Total Hours | Ardura Subtotal Labor Coxt | ODG | Ardura Subtotal (Te | Gupta KWH (Dechical) (MIP/HPF) | Subconsultant A Total | nt Ardurra Sub Mark-up (10%) | Total Cost (Ardura + Subs) |
| Subtask Task Description | | | | | | | | | | | | | | | 200 | | 20.00 | in the same | 6 | | | + | 1 | 2 | 2 |
| 4.2 Specific Workshops | | | H | | | | | \parallel | | | | H | | $\ $ | | | | 0 | | 8 | | | 20.00 | 5 | s |
| Membrane Building Alternative workshop preparation, meeting agenda, PowerPoint 4.2.3 presentation & development meeting minutes | | | - | 25 | 6 | • | | | | | | | | | | • | | 3 | 11 750 00 | | 11 760 00 | | 5 | | 20.032.11 |
| PER Review workshop preparation, meeting agenda, PowerPoint presentation & development meeting 4.2.2 minutes | | e | - | | | | | | | | | | | | | | | | | • | | | | | , , |
| Project Task Expenses (5% on Subtotal Hrs Cost) | | | 1 | ╁ | ╁ | | | | | - | | | - | + | | • | | T | on mosts | 2 00 00 00 00 | | 21,642,00 | 52,642,00 | 2 164.20 | 5 11,306,20 |
| TASK A.O BRELIMINARY ENGINEERING DESIGN | 0 24 | 200 | 16 31 | 31m 564 | n | 3 | 168 | 9 | 24 AD | Q | 0 | 0 | 0 | 101 0 | 09 | 40 | 0 | 1824 | \$ 310,634.00 | | 326,356.00 5: | \$52,375,00 \$16,0 | 516,020,000 \$69,055,000 | | 185 |
| 114.5.0 - REGULATORY AGENCY COORDINATION WITH TCCO TCCQ Coordination Meetings (up to 2) preparation, meeting agenda, PowerPoint presentation, & 5.1 meeting mention matter. | | - | | 22 | | | | | | | | | 8 | | | | | ; | Z ABD 72 | | 70 089 | | 5 | | 2007 |
| | | | _ | 28 | | | | _ | | | ū. | | | | | • | | | | | 7 480 00 | | 8 5 | | 1 |
| 5.3 Regulatory Review and Permit Checklist | | 2 | _ | 12 24 | | | | - | | | | | _ | | | 63 | | Г | | 50 | 7,030.00 | | 20.00 | | 1000 |
| 5.4 PER TCEQ Submission and Comment Response | | 2 | | 2 24 | | | | | | | | | | | | 9 | | П | 5 5,230.00 | S | 5,230.00 | | \$0.00 | | \$ 5,230.00 |
| Project Task Expenses (5% on Subtotal Hrs Cost) Task 5:0 - REGULATORY AGENCY COORDINATION WITH TREQ | 0 0 | 20 | 0 | 30 96 | 0 | 0 | 0 | Q | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 0 | 170 \$ | 100 | \$ 1,351.00 S 27,220.00 S 1,351.00 S | 1,361.00 | \$0.00 | 50.00 | | 56.00 \$ 1361.00 |
| TWOS DWISSE FUNDING APPLICATION SUPPORT SERVICES | | | | | | | | | | | | | | Name of the last | | | | | | | | | | | |
| Funding Opportunities Workshop preparation, meeting agenda, PowerPoint presentation & 6.1 development meeting minutes | | = | 8 | 4 | | | | | | | | | | | | | | 95 | 12,320.00 | 9 | 12,320.00 | | So.aa | 10 | \$ 12,320,00 |
| 6.2 Funding Application Assistance | | 1 | | | | | | - | | | | 1 | 1 | | - | | | 0 | | ~ | | | \$0.00 | | ., |
| 6.2.1 TWDB SWIFT Funding Application and Processing | | + | 80 | 72 | | | | + | + | | | | | 1 | 60 | 60 | | 1 | | 5 | 25,600.00 | | \$0.00 | · | \$ 25,600.00 |
| 5.2.4 WUS OWSRF Funding Application and Processing | | s 6 | 00 00 | 2 2 | | | | | + | - | | | | | es e | 00 0 | | 128 | 25,600.00 | 9) 4 | 25,500.00 | | 20.00 | | \$ 25,600.00 |
| 6.3 Environmental Review Services for TWDB Funds | | H | | 4 | | | | - | - | 100 | 210 | | - | - | 48 | | | | | | 65.840.00 | | 20.00 | | \$ 65.840.00 |
| 6.4 Enginearing Feasibility Report for TWDB Funds | | 36 | 36 | 80 | | | | | | | | | H | 26 | Н | 36 | | П | 5 25,080.00 | 5 | 25,080.00 | | 20.00 | | 5 25,080.00 |
| 6.5 Other Supporting Documents/Deliverables | | 8 | 40 | 1 | | | | - | - | - | | | | - | | | | 48 | \$ 11,200,00 | 55 | 11,200.00 | | \$0.00 | 5 | \$ 11,200.00 |
| Project Task Expenses (5% on Subtotal Hrs Cost) Task 6.0 - TWD0 DWSRFFUNDING APPLICATION SUPPORT SERVICES | 0 0 | 17 | 336 | 204 | 0 | 0 | 0 | 0 | 0 | 100 | 210 | 0 | 0 | 0 24 | u u | 90 | 0 | 10511 5 | | 5 9,562,00 5 191,240,00 5 9,562,00 5 | 9,562.00 | \$0.00 | 50.00 | 50.00 | 50.00 \$ 200,002,00 |
| FAETTO-MEMBRANE DUILDING CHTICAL DIMENSIONS/BLEVATIONS 3D LASER SCANNING | ID LASER SCANNING | | | | | | | | | | | | | | | | | | | | | | | | |
| Field 3D Scanning | | - | + | - | | | | - | | | | 60 | 120 | 8 | | | | 388 | \$ 33,900.00 | 57 | 33,900.00 | | \$0.00 | | \$ 33,900.00 |
| Project Task Expenses [5% on Subiotal His Cost] Task 7.0 - Membrane Building Chitical Dimensions/Elevation | 0 0 | 0 | 0 | 0 | 0 | ۰ | 0 | 0 | 0 | 0 | o | | 120 | 0 09 | 0 | ٥ | ۵ | 300 | \$ 33,900.00 \$ | \$ 1,695.00 \$ | 1,695.00 | \$0.00 | 50.00 | | \$ 1,695.00 \$ 35,595.00 |
| Task II.D - MISC. ADDITIONAL SERVICE TASKS | W W | | W | | 100000000000000000000000000000000000000 | 0.00 | No. of Lot | The second | The second second | | | | | Charles and | STATE OF THE PERSON. | | | | | | | | | | |
| \neg | | RI | | | | | | | - | - | | | | - | - | | | 81 | \$ 22,275.00 | 5 | 22,275.00 | | \$0.00 | | \$ 22,275.00 |
| B.2 Feasibility Study for T& O Centrol | | + | 1 | 1 | + | | | + | - | - | | | - | | 1 | | | | | 5 | | | \$0.00 | 8 | s |
| Desktop Qualitative Analysis for Alternatives | | | | 40 | | | Ī | 1 | + | + | 1 | | + | + | + | - | | | | \$ | 9,600,00 | 1 | 20.00 | · · | \$ 9,600.00 |
| Tife Over Anniusia | | | - | 3 | | | | + | + | + | I | | | | + | | | Т | 9,600.00 | | 9,600.00 | | 20.02 | | \$ 9,600.00 |
| TMDeveloament | | 8 | - | H | | | | | | | | - | - | - | - | , | | 0 | 0,240,00 | | 0.240.00 | | 30,00 | | 9 9740,00 |
| 8.3 HCWTP Misc. Enhancement | | | | | | | | | | | | | | | | | | Т | | | 000000 | | Sp.00 | , , | 1 |
| Splitter box and chemical mixing design revisions | | 8 | | 16 24 | | | | 100 | | | | | | 40 | , | | | | \$ 15,040.00 | so. | 15,040,00 | | \$0.00 | 'n | \$ 15,040.00 |
| Residual handling alternative analysis | | 8 | | 24 40 | - | 24 | 1 | 1 | | | | 1 | + | 16 | ,,, | 4 | | 118 | \$ 20,416.00 | \$ | 20,416.00 | | \$0.00 | | \$ 20,416,00 |
| Project Task Expenses (5% on Subtotal Hrs Cost) Task 8.0 - MISC, ADDITIDNAL SERVICE TASKS | 0 0 | 121 | 91 | 56 208 | 200 0 | 36 | 3 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 95 | | ٥ | 401 | 00 130 10 | \$ 4,573,00 S | 4,573.00 | 90.00 | 50.00 | co s co | 4,573.00 |
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| | Principal | \vdash | Project Manager | Engineer - Senior | - Senior | Engineer | L | Project Engin | H | : CAD Tech - Senior | | CAD Tech | Acco | Accountant | Admi | | | | -000 | | |
| Gupta & Associates. Inc. | Kate: 3 | 683 | 5 279 | - 1 | 22 | 92 | 96 | 62 | 167 | Rate: \$ | Н | | Rate | 123 | Rate: \$ | 84 | Subtotal | 1 | 9 | Markup | TOTAL |
| | nours | Hours | COST | Hours | Cost | Hours | Cost | Hours | Cost He | Hours Cc | Cost Hours | s Cost | Hours | Cost | Hours | Cost | Hours | Cost | 3% SUBs | 5% | Cost |
| | 5 0 | - 7 | 5 1 953 | | 287 | 0 | 200 | 4 | | | | | | | | | | | | | |
| 1.1 Project Management/Administration | | | | * • | 107 | 9 | | A | | 2 | - | S | 9 - | \$ 738 | 0 8 | • | 14 \$ | 2,948 | \$88 | | 50 \$ 3.036 |
| | , . | | | 2 | | 2 | 1 | 69 | | 5 | | * | | | 57 | | 9 | 1,674 | \$50 | | 1 |
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| 1.6 Design Progress Meetings (with Owner) | , , | 1 | | 2 4 | 19 | 2 | 1 | 8 | | 50 | | 8 | | | 55 | | 2 8 | 536 | \$16 | | so S 552 |
| | , , | | 2 . | 2 | 1 | 100 | - | 2 | | 50 | | ** | | | 57 | | 9 | , | SO | | ı |
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| 2.7 iBi-Weekly Design Team Coor Meetings (Report | 55 | | · | | - | : | 2340 | 9 | 1000 | , | 1 | 2 | | 2 | 0 | | | 1,028 | \$31 | | |
| | 10 | Si. | , | - | | | 2,040 | 2 | 2,004 | , | | 8 | | | 40 | | 24 \$ | 4,344 | \$130 | | |
| Miscellaneous | 52 | - | | | 1 | , | | 2 | 1 | , | 1 | 2 | | | 50 | | | • | SO | | \$0 \$ |
| 2.15 Task 2: Membrane Alternative Eval | 67 | | | 2 4 | | 9 | | 2 | | 19 | • | 5 | | 9 | 50 | • | 0 S | | os | | SO S |
| | | | | 2 0 | - | 9 | CARC | 20 | 1,336 | 19 | • | *2 | | , | 50 | | 10 S | 1,726 | \$52 | | 50 \$ 1.77 |
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August 10, 2023

Yue Sun, PE Water Treatment Practice Leader/ Sr. Project Manager Ardurra Group, LLC 3115 Allen Pkwy Suite 300 Houston, TX 77019

Dear Ms. Sun,

Thank you for the opportunity for KWH Engineering to provide HVAC engineering consulting service for the Canyon Regional Water Authority Hays Caldwell WTP Nanofiltration System Improvements project. We are pleased to propose the followings for our scope and fee.

Scope:

Preliminary Design Phase

- Assess the HVAC/Plumbing/Fire Protection requirements for two (2) improvement alternatives for the membrane building improvements, including:
 - 1) Expansion of the existing membrane building
 - 2) Construction of a new membrane building to house new equipment
- The HVAC/Fire Protection tasks include project kickoff, information/data collection, code review and analysis, confirmation of design criteria, site visit, development of PDR, OPCC, and development 2D schematic layout (20% level design), etc.

Fee:

Project Management:

\$720

Preliminary Engineering Design:

\$16,920

Total (lump sum):

\$17,640

Assumption:

One site visit (conducted on July 5, 2023). Any additional site visits will incur an extra fee upon request.

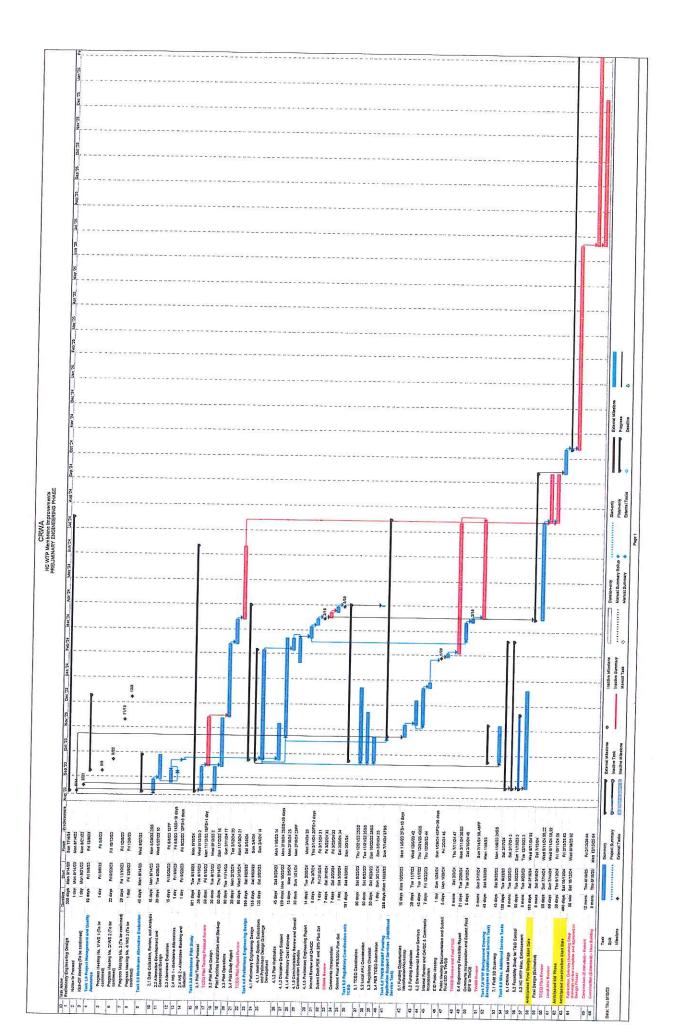
Thank you very much! We are excited and look forward to working with you on this project!

Sincerely,

Sophi Feng, PE

Manager

KWH Engineering LLC





August 26, 2023

Mr. John M. Kaufman General Manager Canyon Regional Water Authority 850 Lakeside Pass New Braunfels, Texas 78130-8233

Regarding:

Hays Caldwell Water Treatment Plant (HC WTP) Membrane Improvements

Proposal to Provide Professional Engineering Services for Preliminary Engineering Design

& Report (Rev 1)

Dear Mr. Kaufman:

Ardurra Group, Inc. is excited to have the opportunity to submit this proposal to the Canyon Regional Water Authority (CRWA) to provide professional engineering services for preliminary engineering design and development of a preliminary engineering report (PER) for the CRWA HC WTP Membrane Improvements project.

Please find the attached Detailed Scope of Services description, level of effort fee estimate, and anticipated project schedule.

Based on the scope of services described in Attachment A, we propose to complete the work in the following amount:

| Task | BASIC SERVICE TASKS | ADDITIONAL SERVICE TASKS | Notes |
|---|------------------------|--------------------------------|---|
| Task 1.0 - GENERAL PROJECT MANAGEMENT AND QUALITY CONTROL | \$75,728.00 | | |
| Task 2.0 - MEMBRANE ALTERNATIVE EVALUATION | \$60,252.00 | | Opportunities available for LOE optimization, pending final direction from CRWA |
| Task 3.0 - MEMBRANE PILOT STUDY | \$179,603.00 | | Opportunities available for LOE optimization, pending final direction from CRWA |
| Task 4.0 - PRELIMINARY ENGINEERING DESIGN | \$402,390.50 | | |
| Task 5.0 - REGULATORY AGENCY COORDINATION WITH TCEQ | \$28,581.00 | | |

| TOTAL | \$769,943.50 | \$309,032.00 | |
|---|--------------|--------------|---|
| Task 8.0 - MISC. ADDITIONAL SERVICE TASKS | \$23,389.00 | \$72,635.00 | |
| Task 7.0 - MEMBRANE BUILDING CRITICAL DIMENSIONS/ELEVATIONS 3D LASER SCANNING | | \$35,595.00 | Required only if PER recommendation is to expand existing membrane bldg. |
| Task 6.0 - TWDB DWSRF FUNDING APPLICATION SUPPORT SERVICES | | \$200,802.00 | Required if CRWA would like to pursue State or Federal funds opportunities |

Per discussion at the Scope of Work Discussion meeting on 8/25/2023 with CRWA Staff and its participant entities, it is recommended that the following tasks be authorized first in a lump sum amount of \$122,848.00, with the remaining tasks be authorized at a later date.

| Task | BASIC SERVICE TASKS | ADDITIONAL SERVICE TASKS | TOTAL |
|--|------------------------|--------------------------------|--------------|
| Task 1.0 - GENERAL PROJECT MANAGEMENT AND QUALITY CONTROL | \$75,728.00 | | \$75,728.00 |
| Task 2.0 - MEMBRANE ALTERNATIVE EVALUATION Task 2.1 Data Collection and Review | \$15,040.00 | | \$15,040.00 |
| Task 3.0 - MEMBRANE PILOT STUDY Task 3.1 Pilot Testing Protocol | \$19,760.00 | | \$19,760.00 |
| Task 6.0 - TWDB DWSRF FUNDING APPLICATION SUPPORT SERVICES Task 6.1 Funding Opportunities Workshop | | \$12,320.00 | \$12,320.00 |
| TOTAL | \$110,528.00 | \$12,320.00 | \$122,848.00 |

We look forward to beginning work on this important project and appreciate the opportunity to continue serving CRWA. Should you have any questions or need additional information, please feel free to contact me via email at ysun@ardurra.com, or via phone at 713.208.9463.

Respectfully,

Yue Sun, PE, BCEE

Group Leader / Project Director

SCOPE OF SERVICES FOR

CANYON REGIONAL WATER AUTHORITY
HAYS CALDWELL WATER TREATMENT PLANT
NANOFILTRATION SYSTEM IMPROVEMENTS
PRELIMINARY ENGINEERING DESIGN PHASE

GENERAL

Canyon Regional Water Authority (CRWA) Hays Caldwell Water Treatment Plant (HC WTP) provides treated water to Maxwell Water Supply Corporation, Martindale Water Supply Corporation, Crystal Clear Special Utility District, and County Line Specifical Utility District. Following planned capacity improvements, treated water will also be pumped to the city of San Marcos. The plant is currently rated for 3.44 MGD and is being upgraded to a treated flow capacity of 6 MGD, with the exception of the existing prefilters and membrane filtration system. The existing membrane system is Koch Targa II membrane filters which are failing and no longer manufactured. The purpose of this project is to upgrade the existing prefilter system and replace the existing Kock Targe II membranes. The replacement membranes will need to provide a production capacity of 6 MGD with a N+1 configuration.

The general scope of work includes preliminary engineering design of the following components based on a site visit and scoping meeting conducted on July 5, 2023:

- Demolition of existing membrane prefilters, membrane racks, and all ancillary components inside the existing membrane building and replacement with new membranes and associated subsystems and components such as membrane feed pumps, prefilters/strainers, backwash pumps, air scour blowers & compressors, clean-in-place system (CIP tank, CIP pumps, CIP chemical transfer pumps, and CIP waste handling equipment) and associated piping, valves, and actuators etc.
- Up to two (2) improvement alternatives will be evaluated for the membrane building improvements. Potential alternatives include the following and will be refined during the preliminary engineering evaluation: 1) expansion of the existing membrane building to provide additional space to house new equipment; 2) construction of a new membrane building to house new equipment.
- Associated architectural, structural, HVAC plumbing and fire protection, electrical, instrumentation control SCADA, and site civil work for the proposed improvements.

Upon receipt of notice to proceed, Engineer shall conduct alternative evaluation and development studies and perform preliminary engineering design service. Preparation of final design construction contract documents, assistance during bidding phase, engineering services during construction, commissioning and startup services, and application engineering services, will be included in future contract amendments.



SCOPE OF WORK

The scope of work presented below describes the base level of services for this project by project task. Unless noted otherwise, all deliverables will be electronic PDF.

TASK 1.0 - PROJECT MANAGEMENT AND QUALITY ASSURANCE (BASIC SERVICE TASK)

1.1. Project Work Plan

Engineer will prepare a written project work plan that outlines the project scope and establishes procedures and protocol for executing the project. The project work plan will include: the scope of work; schedule; organizational structure; communications plan; document management procedures; and quality management procedures. The project work plan will be dynamic in nature and therefore periodically updated as required; action items and decisions will be tracked in an Action Item List and Decision Log.

Deliverables: Project Work Plan

1.2. Project Progress Meetings

Engineer will conduct an initial kickoff meeting with CRWA and its participant entities to introduce project team members, establish protocol and lines of communication, review project goals and objectives, gather all available documents pertinent to the project, and review the scope of work, and schedule.

Monthly progress meetings will be held during the course of the project with the CRWA staff and its participant entities to discuss aspects of the project tasks presently underway, review progress, project schedule, and upcoming issues. These meetings will generally be about two hours in duration. The appropriate Engineering team members shall attend the meetings to discuss pertinent issues. Up to four (4) progress meetings are planned for this Preliminary Engineering Phase of the project. Engineer will prepare draft meeting minutes within seven business days to submit to CRWA for review and distribution to its participant entities. Final minutes will be issued after incorporating review comments.

All meetings will be held via Teams.

Deliverables: Meeting agenda and minutes

1.3. Project Team Coordination

Engineer will conduct regular coordination meetings with design team and subconsultants to coordinate design tasks, review all project elements, to facilitate development of preliminary engineering design. Up to six (6) internal team coordination meetings are planned for the Preliminary Engineering Phase of the project.

1.4. Quality Assurance/Quality Control

Engineer will perform quality assurance/quality control procedures during the project phase. These procedures will include a technical review of interim deliverables by senior technical advisors who are not directly involved with the project. The technical review will provide comments and suggestions concerning the various project deliverables for incorporation prior to



submitting to CRWA for review and distribution to its participant entities. A half-day internal review meeting will be conducted for the Draft Preliminary Engineering Report to discuss technical review comments.

Deliverables: Internal documentation of technical reviews and response logs

Project Monthly Progress Report and Invoices

Engineer will track and update the budget, schedule, progress of work, and potential changes to the scope of work. Engineer will provide a project status report and submit it with monthly invoice. The project status report will include summary of work completed to date, work planned for upcoming month, and schedule update as needed.

Deliverables: Project status reports and monthly invoices

Phase 1 Conceptual Design /Basis of Design Technical Memorandum TASK 2.0 – MEMBRANE ALTERNATIVE EVALUATION (BASIC SERVICE TASK)

2.1. Data Collection and Review

Engineer will obtain and review available historical water quality data, plant operation data, operation reports, and other pertinent records, including but not limited to:

- Plant flows for last 5 years
- Available water quality data throughout treatment processes for last 5 years
- Plant disinfection CT study
- Electrical power billing record for last 5 years
- Any improvement projects and study reports since the commission of the plant

Engineer will prepare a data request list and review with CRWA at the Kick-off meeting. It is assumed data requested will be provided to the Engineer in an electronic format. Upon receiving the data, the Engineer will review, analyze, and perform a water balance analysis to develop the basis of design flow and hydraulic loading for the membrane improvements.

During the course of the project Engineer may identify other pertinent documents such as existing equipment O&M manuals and will make a request to CRWA.

2.2. Alternative Development and Conceptual Design

Under Phase 1, Engineer will evaluate membrane alternatives for the improvements. Engineer will utilize historical water quality data, full-scale membrane operation and performance data, and previous available pilot study report and studies to develop a process flow diagram, preliminary design parameters, conceptual equipment sizing and layout, planning level cost estimates in the alternative evaluation. Up to three (3) membrane systems (polymeric and ceramic) will be included in this evaluation.

Each of the three alternatives will be conceptually developed in sufficient details to conduct a present worth cost analysis.

Basis of Design Tech Memo Presenting Membrane Conceptual Design and Deliverables:

Evaluation



2.3. Alternative Evaluation

Engineer will evaluate membrane alternatives using criteria developed under Workshop 1 as described below. Engineer will develop conceptual level construction and O&M costs and non-cost screening criteria for each of the alternatives. Engineer will prepare a Technical Memorandum that documents alternative development, presents the evaluations, and recommends proposed improvement for pilot testing. Engineer will recommend up to two (2) membrane systems that best meet project goals for subsequent pilot study.

Deliverables: Basis of Design Tech Memo Presenting Membrane Conceptual Design and Evaluation

2.4. Workshops

Engineer will conduct a series of workshops during this phase with CRWA and its participant entities. Appropriate staff from Ardurra team, experienced in the individual topics to be covered at the workshops, will be available as needed to participate in each workshop. Engineer will provide a summary following each of the workshops, documenting the outcome and presenting action items to be completed.

Workshop 1 -Membrane Alternative Development. A 2-hour workshop will be conducted to discuss alternative membrane technologies that may be evaluated for the membrane conceptual evaluation. The workshop will be conducted in conjunction with one of the Progress Meetings.

Both cost and non-cost evaluation criteria will be developed. The workshop will be conducted after historical facility operational and performance data have been gathered and analyzed. An example of evaluation criteria is provided in Table 1. This will be further refined with CRWA and its participant entities during the workshop.

CRWA and its participant entities will provide primary input as to the relative importance or weighting of the criteria. Subsequent Evaluations will be performed for the alternatives that are selected and agreed upon by CRWA and its participant entities.

Table 1 – Alternative Evaluation Criteria

| | Evaluation Criteria | Weight |
|----------|---|--------|
| | Capital Cost | TBD |
| Cost | O&M Cost | TBD |
| | Life Cycle Costs | TBD |
| | Operational Flexibility and Complexity | TBD |
| Non-Cost | Maintenance Requirements | TBD |
| | Site Impacts & Expandability | TBD |
| | Ease of Implementation and Constructability | TBD |



| Impacts on Water Quality | TBD |
|--------------------------|-----|

Deliverables:

Workshop agenda and summary.

Workshop 2 – Alternative Ranking and Selection. A 2-hour workshop will be conducted to discuss the membrane alternative evaluations and to conductan alternative matrix analysis that ranks the alternatives based on weighted cost and non-cost criteria. The workshop will be conducted after alternatives evaluation and conceptual design is complete. Up to two (2) membrane technologies will be recommended for subsequent membrane pilot study. The workshop will be conducted in conjunction with one of the Progress Meetings.

Deliverables:

Workshop agenda and summary.

TASK 3.0 - MEMBRANE PILOT STUDY (BASIC SERVICE TASK)

Following selection of membrane alternatives, a membrane pilot test will be conducted to develop full-scale design criteria and obtain regulatory approval from TCEQ. The pilot test will be conducted on the selected membrane system(s).

3.1. Pilot Testing Protocol

Engineer will develop a pilot testing plan that will be a comprehensive guide to the activities to be undertaken during the pilot phase investigations. The pilot testing protocols will outline and address the following:

- Objectives and goals.
- State requirements for membrane pilot testing.
- Raw water quality and treatment goals.
- Pilot layout, design criteria, ancillary requirements.
- Schedule.
- Testing procedures and description of operations.
- Testing matrix outlining the conditions, flows, loadings, duration, runs, and other relevant information for each proposed testing series.
- Water quality sampling, testing, and monitoring. It is assumed that CRWA will pay for laboratory testing. Analytical testing can be handled either via their in-house or contract testing laboratory. Engineer will assist to identify certified laboratories.
- Quality Assurance/Quality Control (QA/QC) procedures.
- Roles, responsibilities, and communications.
- Data collection, processing and reporting.

The Pilot testing protocol will be developed following TCEQ guidance for membrane pilot testing. The pilot study protocol will be submitted to CRWA for distribution to its participant entities for review comments. Upon incorporating review comments, the final test protocol will be submitted to TCEQ and comments will be incorporated into the Final Protocol prior to implementation.

Engineer will coordinate with membrane suppliers and obtain pilot equipment data (dimensional drawings, design loading, hydraulics, analyzers and instruments, power requirements, etc.) and



discuss the approved Pilot Testing Protocol with the membrane system supplier. This is to ensure that the supplier understands pilot testing requirements, data monitoring, and reporting, to meet expectation for subsequent pilot study report submittal.

Deliverables: Draft and Final Pilot Study Protocol.

3.2. Pilot Plant Facilities

The pilot plant will consist of membrane module pilot skids from the membrane system supplier(s), to mimic the full-scale treatment process as proposed for the improvements.

Pilot Facilities Design Document Development: Engineer will develop design documents of the pilot facilities for inclusion in the membrane pilot protocol. The documents will include:

- One line drawing indicating electrical supply and feed requirements.
- Process flow schematics indicating the arrangement of components, interconnection pipe sizes, valves & fittings, and other information.
- Raw water supply general layout drawings.
- Disposal of treated water, waste backwash water, chemical cleaning waste after neutralization.
- General plan view showing arrangement of equipment and key components.

Engineer will also assist to identify chemical suppliers that would be required for the pilot testing, estimated chemical quantities and obtained chemical safety handling procedures. It is assumed that pilot testing chemicals will be paid for by CRWA.

Pilot Facilities Installation and Start-up Assistance: The membrane system supplier is responsible for procuring pilot equipment in accordance with the membrane pilot facility design document. Construction of the pilot facilities, installation of the equipment, and demolition of the pilot facilities will be handled by the membrane system supplier. Shipping and unloading of the pilot equipment shall also be handled by the membrane system supplier. Engineer will coordinate delivery schedule with CRWA.

Engineer will make four (4) site visits (up to 8 hours each) to oversee construction of the pilot facilities and installation of pilot testing equipment. Engineer will perform a final walkthrough to make sure pilot setup/construction and equipment installation are in accordance with the layouts prepared. This level of effort assumes two (2) personnel for each site visit.

Engineer will participate in start-up and confirm that systems are operational. This level of effort assumes two (2) personnel in the field for a total of four site visits (8 hours each) to complete installation oversight, final walkthrough, and start-up of the pilot.

3.3. Pilot Operations

Engineer will provide personnel to maintain routine operation of the pilot, monitor and collect data required from the pilot equipment in accordance with the pilot sampling, monitoring, and analysis plan outlined in the Pilot Testing Protocol. Engineer will collect field water samples (raw, membrane feed, membrane filtrate, waste backwash water, etc.), perform onsite field testing at either HC WTP or LD WTP lab, and coordinate required analyses by certified laboratories. Engineer



will be responsible for coordinating with testing laboratory for delivery of sample bottles, chain-of-custody, and sample shipment. Engineer will document daily operation logs, event logs, field grab sample results, field issues and observations etc.

Engineer will provide one half-time staff (eight hours per day on Mondays and Wednesdays, and 4 hours per day on Fridays) to maintain operations and collect the data required from the pilot equipment. For Tuesdays, Thursdays and weekends, CRWA staff will support the pilot operations.

- Initial start-up: It is expected that following completion of the pilot equipment set up activities, one week of piloting will be performed to validate operations, establish standard operating procedures (SOPs), and prepare for routine pilot operations.
- Routine Pilot Operations: Pilot operations will be conducted for a period of up to four (4) months and will be focused on validating design criteria, operating parameters, and treatment performance. Engineer will be responsible for routine daily operation during pilot testing.
- Regular communications: Throughout the pilot testing, Engineer will conduct weekly calls with the membrane supplier to review pilot operation, performance and any field issues. It is assumed each call will be 30- minutes in length.

3.4. Pilot Study Report

Upon completion of the pilot testing, Engineer will prepare a draft pilot study report to summarize results and findings. The pilot study report will be developed in accordance with TCEQ requirements. The draft report will be submitted to CRWA for review and distribution to its participant entities for comments. Upon incorporating review comments, the final report will be submitted to TCEQ for review and approval.

Three (3) pilot testing review meetings will be held over the course of the pilot study to present interim results and findings to CRWA and its participant entities. The review meetings will be held at the end of each pilot testing stage, and it is anticipated that each meeting will be up to two hours in length.

Deliverables: Draft and Final Pilot Study Report; Pilot Testing Review Meeting Agenda and Summary.

Phase 2 Preliminary Design

TASK 4.0 - PRELIMINARY ENGINEERING DESIGN (BASIC SERVICE TASK)

The Engineer shall perform the following tasks as part of the preliminary engineering design of the project.

4.1. Preliminary Engineering Design

The Preliminary Engineering Design Phase will provide a 30% complete design of the project. It will include the Preliminary Engineering Report (PER) and 30% complete level drawings. The work under this phase will include the following items:

Develop and finalize design criteria



- Develop facility sizing and produce equipment data
- Perform hydraulic analyses pertinent to membrane system
- Conduct building code analysis
- Develop membrane improvements power loads and produce electrical one-line diagram
- Develop SCADA system architecture
- Develop preliminary specifications table of contents
- Develop preliminary design, including the following discipline level
 - ➤ Process and Instrumentation Diagrams (P&IDs) to 50%
 - ➢ Process Mechanical to 50%
 - > Site Civil, including site, yard piping, grading, and paving plans, to 30%
 - ➤ Structural to 20%
 - ➤ Architectural to 20%
 - ➤ HVAC/Plumbing/Fire Protection to 20%
 - ➤ Electrical to 20%
- AACE Class 3 Level Opinion of Probable Construction Cost
- Preliminary Project Construction Schedule

The following subtasks will be performed in developing the Preliminary Engineering Report (PER) to determine the scope for the project to move into the Final Design. Appropriate graphics, charts, diagrams, tables, and drawings will supplement the text to provide a complete working summary document.

4.1.1 Membrane System Evaluations and 30% Drawing Development

Engineer will evaluate membrane and associated subsystem and recommend number and size of unit processes, standby equipment requirements, types of equipment to be used, and facility costs including:

- Membrane feed pumps
- Prefilters/strainers
- Membrane racks
- Backwash pumps
- CIP tank, chemical transfer pumps, and waste handling system
- Air scour blowers
- Compressed air system

Engineer will develop preliminary design drawings for the proposed improvements in accordance with the discipline level as defined above.

Proposed improvements will be designed in compliance with the requirements of applicable laws, codes, and regulations, and applicable design manuals.

4.1.2 Hydraulics

Engineer will evaluate the hydraulics associated with membrane system such that the impact of various flows can be evaluated and structures and piping properly sized. Partial hydraulic grade line drawings will be prepared. Hydraulics analysis will include membrane feed pump and strainer hydraulics, CIP pump hydraulics, CIP chemical transfer pump hydraulics, backwash pump hydraulics, and CIP waste pump hydraulics etc.



4.1.3 Discipline Support Activities

As a portion of the Preliminary Engineering Report, the following items will be evaluated and included in the overall report preparation. In general, discipline design considerations will follow the same design philosophy that was established in the original design, unless otherwise directed by CRWA:

- Civil and Site Work PER will address grading, paving, drainage, stormwater mitigation.
- Structural Design PER will identify building codes that will apply to the design and develop structural design for expansion of existing building vs new building.
- Architectural Design-PER will address the architectural design of the existing Building expansion and modifications required vs new building. Plan views and representative sections for the buildings will be included in the PER.
- HVAC, Plumbing, and Fire Protection PER will address the HVAC, plumbing and fire protection requirements for the proposed improvements for building expansion and new building alternatives.
- Electrical Design PER will discuss the power requirements for the proposed improvements, develop electrical load list and one-line diagrams, and electrical room layout for the existing building expansion and new building options.
- Instrumentation, Control, and SCADA Design PER will present instrumentation and control philosophy and develop the preliminary process and instrumentation diagrams and SCADA system architecture. Evaluate SCADA HMI and integration for the proposed improvements.

4.1.4 Preliminary Cost Estimates

Engineer will prepare a quantity take-off and develop preliminary opinions of probable construction costs (OPCC) for construction in accordance with AACE Class 3. The cost estimating assumptions and cost summaries will be included in the PER.

4.1.5 Constructability Review and Overall Construction Schedule

Engineer will identify potential construction constraints and develop a construction sequencing and staging plan in order to maintain plant operation during the expansion. Engineer will address constructability concerns and determine the overall construction schedule for the proposed improvements.

4.1.6 Preliminary Engineering Report

Engineer will prepare a PER that will incorporate the above items evaluated in the Preliminary Engineering Design Phase and present the proposed plans in the PER. The PER will include plant design criteria and the proposed list of major equipment, preliminary layouts of facilities, structures and buildings, P&IDs, site plan and yard piping layouts, driveways, and electrical facilities.

A draft Table of Contents for this deliverable is as follows:



- Executive Summary
- Section 1 Introduction and Project Background
- Section 2 Historical Data Review
- Section 3 Water Balance and Basis of Design Flow
- Section 4 Membrane Expansion Alternative Evaluation
- Section 5 Architectural Design Considerations
- Section 6 Structural Design Considerations
- Section 7 HVAC, Plumbing, and Fire Protection
- Section 8 Electrical Design Considerations
- Section 9 Instrumentation, Control and SCADA Design
- Section 10 Civil and Site Work
- Section 11–Construction Schedule and OPCC

Deliverables: Electronic submittal of draft and final Preliminary Engineering Reports, and 30% Level Drawings

4.2. Specific Workshops

Engineer will conduct two workshops during the Preliminary Engineering Design phases with CRWA and its participant entities to develop project direction for various items related to the project. Engineer will provide a summary document following each of the workshops, documenting the outcome and presenting action items to be completed.

4.2.1 Membrane Building Alternative

Two membrane building alternatives will be evaluated, including 1) expanding existing membrane building to accommodate the proposed improvements; 2) constructing a new membrane building for the proposed improvements. The building alternative evaluation workshop will review preliminary layout of each building alternative, site plan, architectural design consideration, structural design requirements, building mechanical, electrical room layout, instrumentation, control and SCADA integration aspects of each alternative. This workshop is anticipated to be no more than two hours in length and will be conducted via Teams in conjunction with one of the Progress Meetings.

Deliverables: Workshop Agenda and Minutes

4.2.2 PER Review Workshop

A review workshop with CRWA and its participant entities will be conducted for the Preliminary Engineering Design phase. This workshop will be held approximately two weeks following submittal of the draft Preliminary Engineering Design deliverable to provide time for CRWA and its participant entities review, and comment collection & compiling. Following their review, CRWA and its participant entities will provide written comments to the Engineer. Engineer will then provide a written response to these comments and incorporate revision in the final PER. The review workshop will be approximately 4 hours and will be conducted via Teams.

Deliverables: Workshop Agenda and Review Comment & Response Log

TASK 5.0 – REGULATORY AGENCY COORDINATION WITH TCEQ AND LOCAL GOVERNMENTAL AUTHORITIES (BASIC SERVICE TASK)



5.1. TCEQ Coordination Meetings

Engineer will coordinate and attend up to two (2) virtual meetings with TCEQ regarding the project. Each meeting is anticipated to be one hour in length. Potential topics to cover may include process design criteria, the potential for obtaining exceptions, key regulatory review components, and review workflow process for the proposed improvements.

Deliverables: Meeting agenda and minutes

5.2. Local AHJ Coordination Meetings

Engineer will coordinate and attend up to two (2) virtual meetings with local authority having jurisdiction (AHJ) regarding the project. Each meeting is anticipated to be one hour in length. Potential topics to cover may include process design criteria, the potential for obtaining exceptions, key regulatory review components, and review workflow process for the proposed improvements.

Deliverables: Meeting agenda and minutes

5.3. Regulatory Review and Permit Checklist

Engineer will conduct a preliminary assessment to identify project related code and permit requirements, develop a regulatory and permit review checklist to outline deliverable milestones, regulatory and permit review timeline, and proposed schedule for compliance. The project Regulatory and Permit Review Checklist will be included in the PER.

Deliverables: Regulatory and Permit Review Checklist

5.4. PER TCEQ Submission

Engineer will coordinate external regulatory review with TCEQ to ensure compliance with TCEQ rules and regulations. Engineer will submit Preliminary Engineering Report to TCEQ for review. Upon receipt of review comments, Engineer will address and incorporate in the Final PER.

Deliverables: PER and TCEQ Comments and Response Log

TASK 6.0 – TWDB DWSRF FUNDING APPLICATION SUPPORT SERVICES (ADDITIONAL SERVICE TASK)

Engineer will perform the following tasks in support of the project funding application. Since the improvements are anticipated within the existing WTP site, US ACE permit, threatened and endangered species habitat evolution, Archaeological Pedestrian Survey are not included in the following funding services.

6.1. Funding Opportunities Workshop

Engineer will conduct a workshop with CRWA and its participant entities to identify available project funding sources such as TWDB SWIFT, TWDB DWRSF, and EPA WIFIA, review project eligibility, application process, document requirements, and timeline etc. to support the improvements project. The workshop is anticipated to be two (2) hours in length.

Deliverables: Workshop Agenda and Meeting Minutes



6.2. Funding Application Assistance

6.2.1 TWDB SWIFT Funding Application and Processing

Prepare an application and necessary exhibits for funding assistance from the Texas Water Development Board (TWDB) through the SWIFT funding mechanism and submit the application by the statutory deadline.

Coordinate with TWDB as necessary to complete the application.

6.2.2 TWDB DWSRF Funding Application and Processing

Prepare an application and necessary exhibits for funding assistance from the Texas Water Development Board (TWDB) through the Drinking Water State Revolving funding mechanism by completing the DWSRF IUP Solicitation Packet – Project Information Form.

Prepare an application and necessary exhibits for funding assistance from the TWDB though the Drinking Water funding mechanism by completing the DWSRF application and supporting exhibits. Coordinate with TWDB as necessary to complete the application.

6.2.3 A Third Funding Application and Processing

Depending upon recommendation from the funding opportunity workshop, prepare a third application and necessary exhibits for funding assistance from the identify state or federal funding mechanism and submit the application.

Coordinate with funding agency as necessary to complete the application.

6.3. Environmental Review Services for TWDB Funds

Engineer will prepare necessary environmental documents required in support of the funding application, in accordance with National Environmental Policy Act (NEPA) regulations and applicable TWDB guidance. The Environmental Information Document (EID) will be prepared using TWDB-0801 form. The EID will include the project area within the current plant boundaries and an area outside the current fence line where the new 24-inch water line will be routed through. Engineer will coordinate with regulatory agencies, including but not limited to the US Army Corps of Engineering, US Fish & Wildlife Service, Texas Historical Commission, Texas Parks and Wildlife Department, and Department of Agriculture etc. The draft document will be submitted to CRWA for review, distribution to its participant entities, and comment. Engineer will incorporate the comments in the final document and submit to TWDB.

Engineer will coordinate with CRWA and conduct a Public Meeting as part of the TWDB EID requirements. Engineer will prepare a Public Meeting Notice for CRWA to use and publish in local newspaper 30 days in advance of the meeting. Engineer will prepare meeting materials including sign-in sheet, PowerPoint presentation, and meeting hand-outs. CRWA will be responsible for publishing the Notice in local newspaper and providing a local source for public to view the EID document prior to the meeting.

Upon completion of the Public Meeting, Engineer will include public participation documentation such as publisher's affidavit and a copy of the meeting notice, statement signed by CRWA, meeting sign-in sheet, meeting summary, and comments received and responses in the final EID.

Engineer will coordinate and address TWDB comments received to obtain final approval.



Deliverables:

Draft and Final EID

Public Meeting Notice

Public Meeting Materials including sign-in sheet, handout (up to 10 copies),

and PowerPoint Presentation

Public Meeting Participation Documentation

6.4. Engineering Feasibility Report for TWDB Funds

Engineer will prepare an Engineering Feasibility Report (EFR) and submit it to TWDB for funding application support. The report will be prepared in accordance with TWDB Guidance Document TWDB-0555 and include the following information: project general description, alternatives, project site conditions, treatment processes and design criteria, alternative methods for project delivery (if applicable), project cost and implement schedule, etc. The EFR will include the project components related to the membrane improvements.

Engineer will use the Preliminary Engineering Report as a basis to develop the EFR. Engineer will submit the draft EFR to CRWA for distribution to its participant entities for review, and Engineer will incorporate review comments in the final report.

Engineer will coordinate with TWDB and address TWDB's review comments for final approval.

Deliverables: Draft and Final EFR

6.5. Ongoing Coordination with Funding Agencies and Misc. Supporting Documents The Engineer will provide ongoing coordination with funding agencies over the duration of the project PER phase and misc. supporting documents and deliverables necessary for the completion of the identified funding applications.

Engineer will coordinate and provide information for funding agency submittals and requests. Engineer will attend no more than two (2) virtual meetings with CRWA and its participant entities, and funding agencies regarding the project. Each meeting is anticipated to be one hour in length.

Deliverables: Meeting agenda and minutes

TASK 7.0 – MEMBRANE BUILDING CRITICAL DIMENSION/ELEVATION 3D LASER SCANNING (ADDITIONAL SERVICE TASK)

If PER recommendation is to proceed with expanding the existing building, this task will be required in order to capture critical dimensions and elevations for final design development due to the poor quality of available Record Drawings.

Engineer will perform detailed as-built survey of the interior of the Membrane building using highdefinition 3D laser scanning (Terrestrial LiDAR) Trimble 3D Laser scanning systems. Horizontal (NAD83) and Vertical (NAVD88) control will be established and transferred into the building. The High-Definition Survey will capture data with sub-centimeter level accuracy and detail to create a 3D pointcloud replicating the as-built conditions. The 3D point cloud will be processed and exported to 2D CAD environment to create a complete CAD drawing of the building's interior infrastructure.



TASK 8.0 – MISCELLANEOUS ADDITIONAL SERVICE TASKS

These items are not part of the basic engineering services and will be added to the scope of services upon written authorization from CRWA. The services provided under this task will be used at CRWA's discretion on an as-needed basis.

8.1. CRWA Board Meetings

Engineer attend CRWA in-person meetings to provide project update and information to the CRWA Board of Managers, Construction Committee, and Board of Trustees over the course of project PER phase. These meetings will occur once a month. It is assumed no more than 27 meetings during the PER phase.

8.2. Feasibility Study for Taste and Odor (T&O) Control

The HC WTP has experienced seasonal fluctuations of earthy/musty T&O which is derived from the presence algal by-products such as methylisoborneol (MIB) and geosmin. There are several potential strategies for T&O control that include the addition of powdered activated carbon (PAC), adsorption using granular activated carbon (GAC) contactors and advanced oxidation processes (AOPs). The AOPs include ozone/hydrogen peroxide oxidation and ultraviolet (UV) light/hydrogen peroxide oxidation. Engineer will conduct a desktop, qualitative assessment of the available strategies.

The Engineer will contract with a specialist laboratory to conduct bench-scale tests that will include:

- Adsorption tests for PAC type, dose and contact time. Up to three kinds of PACs will be tested.
- Rapid small scale column tests (RSSCTs) to determine GAC loading rates, empty bed contact time (EBCT) and replacement frequency. Up to three RSSCTs will be performed.

Bench-scale tests will be conducted by spiking with MIB to simulate the worst-case water quality conditions.

Engineer will use the bench-scale test results and prepare life-cycle costs for each T&O alternative. From the desktop assessment findings, bench-scale test results and life-cycle cost estimates, the Engineer, in consultation with CRWA and its participant entities, will identify the best strategies for the full-scale plant consideration.

Deliverable: Tech Memo Summarizing Findings from Feasibility Study

8.3. HC WTP Misc. Enhancement

Per discussion with CRWA, it is desired to enhance current design of splitter box and chemical mixing mechanism in the Improvements project to enhance chemical mixing efficiency. Engineer will review the current design and propose modifications for design revisions.



In addition, CRWA staff expressed maintenance concerns with the proposed decant ponds. A better solution is desired by CRWA staff for plant residual handling. Engineer will perform a preliminary engineering design to look at alternatives for improving plant residual handling process. Recommendations can be incorporated in the final design of the membrane improvements project.

Deliverable: Tech Memo Summarizing Residual Handling Improvements

TASK 9.0 – OTHER SERVICE TASKS, CLARIFICATIONS AND EXCLUSIONS

Other service tasks will be negotiated with CRWA as needed, including additional studies and investigation as required to support recommended solution and/or as required to address system which may become affected as a result of the proposed work but not originally envisioned or as added by CRWA. These other services may include the following and will be authorized by CRWA in writing for an additional fee as agreed upon by CRWA and the Engineer:

- 1. Any additional meetings, outside of those listed herein
- 2. Pilot study analytical laboratory testing
- 3. Pilot plant construction and pilot equipment
- Pilot testing chemicals
- Hydraulic transient analysis
- 6. Topographic survey performed in the HC WTP Improvements project will be used. Any additional survey that is needed as identified during the PER phase will be performed in the final design.
- 7. Any off-site survey work outside the plant fence line
- 8. Subsurface utility engineering
- 9. Geotechnical Report performed in the HC WTP Improvements project will be used. Any additional geotechnical borings and laboratory testing that may be needed as identified during the PER phase will be performed in the final design.
- 10. Phase 1 and Phase 2 environmental site assessment (ESA)
- 11. USACE Permitting
- 12. Archeological investigation Services
- 13. ACI-ADI review for ADA compliance (anticipated for the final design phase)
- 14. Computational fluid dynamics (CFD) modeling
- 15. Electrical studies such as short circuit, coordination, motor starting, and arc flash studies (anticipated for the final design phase)
- 16. Plant-wide security system design
- 17. FAA permitting
- 18. Physical laboratory scale modeling
- 19. Drawings will be developed in 2D version of AutoCAD
- 20. Site landscaping



| CRWA HC WITP Membrane improvements Preliminary Engineering Design Phase Level of Efforts Fee Estimate | | | | | | | | | | | | | | | | | | | | | | |
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| 1.1 Project Work Plan / Kick-off Meeting | - | 62 | 9 | 76 | | | | | | | | | | | - | | | | - | | | |
| | 4 | q | 80 | 16 | | | + | - | | | | + | - | 4 | 38 | s | 10,080.00 | \$ 10,080.00 | \$552.00 | \$552.00 | s | 55.20 \$ 10.687.20 |
| 1.3 Project Team Coordination Quality Assurance/Quality Control and Internal | | 40 | 40 | 48 | 12 | 13 | | | | | | - | - | 2 | 36 | 5 | 6,180.00 | \$ 6,180,00 | | | S | S |
| - 1 | 35 | * | | | | | | | | | | | | • | ST. | 0 | 36.00 | \$ 29,635,00 | \$1,724.00 | 5720.00 \$2,444,00 | " | 244.40 \$ 32,324.40 |
| 2.5 Project monthly progress report and invoicing | | 6 | a | | | | | | | | | | | | 29 60 | s . | 17,340.00 | \$ 17,340.00 | | \$0.00 | ., | |
| Task 1.0 - GENERAL PROJECT MANAGEMENT AND QUAITY CONTRO | 95 8 | 0 23 | 24 | 40 | 2 | cı | | | | | | | | | Н | | 5 3,410. | 20 5 3,410,00 | 2760.00 | 5760.00 | s . | 76.00 \$ 5,786.00 |
| Phase 1 Conceptual Design/Basis of Design Technical Magazin | modern | | | | | | | 0 | 0 | 0 | D | 0 | 0 | 12 | 330 | ş | SU, 2 N. S. C. 3, 41D. | 3,410,00 \$ 71,556,00 | 53,036,00 | \$720,00 53,756,00 | 200 | 375.60 \$ 75,728.00 |
| | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 Data Collection and review | | L | 40 | 35 | | | | | | | | | | | STATE STATE OF | Control of the last | | The second second | | | | |
| 2.2 Alternative Development and Conceptual Design | 8 | A | 16 | 35 | | 1 | - | + | | - | | 18 | - | | 36 | s | 15,040.00 | \$ 15,040.00 | | \$0.0 | 8 0 | \$ 15,040,00 |
| \neg | 80 | 4 | 36 | 33 | | | | | | | | 40 | | | 124 | ~ | 20,740.00 | | ш | \$0.00 | П | |
| 2.4 Workshops | | | | | | | | | | - | 1 | | | 4 , | 35 | s, . | 11,260.00 | \$ 11,250.00 | \$1,778.00 | \$1,778.00 | s, | |
| Workshop 1 - Membrane Alterative Development | | 4 | 4 | 80 | | | | | | | | | | 4 4 | 4 5 | ٠, ٠ | 480.00 | | | \$0.00 | \neg | |
| Project Tack Ennounce (5% on Substal Let Cost) | 7 | ų. | - | | + | | - | - | | | | | | , | 2 | , , | 4,000,00 | 4,000,00 | | Soc | _ | \$ 4,000.00 |
| Task 2.0 - MEMBRANE ALTERNATIVE EVALUATION | 4 36 | 35 0 | g | 160 | • | | | | | - | | | | | | | \$ 2,776.00 | | | 00.00 | n. | |
| Task 3.9 - Minimake minor curing | | | | | | | | | 0 | 0 | 0 | 0 -10 | 0 | 21 | D 332 | 5 | 55,520.00 \$ 2,776,00 \$ | 00 5 58,296,00 | \$1,778.00 | 50.00 | 2 12 | 177.80 \$ F6.252.00 |
| | | H | - | | | | | | | | | なける | | | | | | | П | | | |
| - | | 12 | 40 | 40 | | | + | | | | | | H | 8 | 112 | \$ 19,760.00 | 0.00 | \$ 19.760.00 | | 2000 | | |
| 3.2 and Start-up Assistance | | 1 | 1 | | | | | | | - | | | | | 10 | | | | | | | |
| Pilot Plant Facilities Oesign Document Development | | 16 | 9 | 92 | | | | | | | | - | - | | | , | | | | 20.00 | | s |
| \neg | | 16 | 32 | 40 | | | - | - | | - | 1 | - | 40 | | 215 | s | 33,800.00 | | 55,727.00 | \$5,727.00 | .00 \$ 572.70 | 07.860.099.70 |
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| Print Tatle Formance (Fer on Cohester) to Const | 12 | 30 | 8 | 120 | - | | | | | | | | L | 12 | 358 | 5 54,960,00 | 0000 | \$ 54,960.00 | | \$0.00 | Т | - 1 |
| Tack 3.0 - MEMBRANE PROT STUDY | 0 12 | 20 00 | 206 | 65 | | | | | | | | | | | | | | | | \$0.00 | - 1 | \$ 40,770.00 |
| C washing C washing | | H | H | | | | 0 | 0 | 0 | 0 0 | 0 | 0 0 | AD | 30 | mror o | 5 | 165,050,00 \$ 8,253,00 | מסינטנינלנ \$ ס | 55,727,00 | 50.00 55,737 | 5 00.026,22 | 5 8,253,00 |
| Task ald - Preliminary Design | | | | | | | | | | | A STATE OF THE PARTY OF THE PAR | | 11000 | | | | | | П | | | |
| 4.1 Preliminary Engineering Design | | - | | | | | | | | | | | | | 100 | | | | | | 1 | |
| Membrane System Evaluations and 30% Drawing 4.1.1 Development Two Building Attornational | | | | | | | | | | - | | | | | | Ц | | | | | | |
| Membrane food gumps sixles (avout | | | 1 | | + | 1 | | | | | | | | | | | | | | | | |
| Membrane strainers sizing/layout | | | 8 5 | 34 | + | 1 | 1 | | | | | 16 | | | 25 | \$ 9.450.00 | 0.00 | 9450.00 | | 1000 | \top | - 1 |
| Membrane racks sizing/layout | | | 9 | 2 7 | - | | 1 | - | | - | | 14 | | | 25 | s | 0.00 | | | Sono | | 5 3,450,00 |
| Backwash pumps staing/layout | | 9 | A | 2 | | | | | | - | | 77 | | | 96 | S | 000 | П | | Son | | |
| CIP (CIP tank & Pumps, chemical tanks and transfer | | | | | | | | - | - | | - | 14 | - | | 20 | \$ 8,560.00 | 000 | \$ 8,560.00 | | \$0.00 | s | \$ 8,560.00 |
| pumps) and neutralization systems sizing/layout | | 11 | 40 | 34 | | | _ | | | | | | | | | | | | | | | |
| Compressed alr system (compressed alr system) | | 9 | 91 | 16 | | | | | | - | - | 25 24 | | | 100 | \$ 19,140,00 | 000 | | | \$0.00 | | \$ 19,140,00 |
| etc.] slzing/layout | | 9 | 1 | 4 | | | | | | | | | | | 48 | S 8,330,00 | 200 | \$ 8,330.00 | | \$0.00 | | \$ 8,330.00 |
| Existing Building expansion layout/Site Plan/Yard Plaine Plan | | | 1 5 | | 3 | | - | | | | | 16 | - | | 20 | \$ 8,690.00 | 2,00 | \$ 8,690.00 | | 80.00 | | \$ 8,690.00 |
| New Building Jayout /site plan/yard piping plan | H | 8 9 | 2 2 | 24 | 9 5 | 9 5 | | | | | | 22 | 24 | | 120 | | 97 | 5 20.220.00 | | 2 4 | 9 | Ι. |
| 4.1.2 Hydraulics | 4 | 4 36 | H | 40 | - | | - | | | | + | 20 | 34 | | 120 | \$ 20,320.00 | 000 | \$ 20,220.00 | | \$0.00 | | \$ 20,220,00 |
| 4.1.3 WTP Discipling Support Activities | | | | | | | | | - | - | - | | - | 1 | 77 | \$ 12,780.00 | 000 | \$ 12,780.00 | | \$0.0¢ | S | |
| Civil, and Site Work | | 4 | 20 | 20 | | | | | | - | | - | | | 0 | 1 | | | | \$0.00 | . 8 | s |
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| 4.1.4 Preliminary Cost Estimates | | | 2 5 | 12 | | + | 9 34 | 40 | | | | | | | 201 | \$ 16,970,00 | 8 | | 246,149,00 | 546,149.00 | 5 4,614.30 | · . |
| Constructability Review and Overall Construction 4.1.5 Schedule | | | | + | H | R | - | | | | | + | | | 342 | | 001 | П | | \$0.00 | | \$ 21,860.00 |
| 4.1.6 Preliminary Engineering Report (Draft and Final) | e . | 9 11 | 2 4 | 6 5 | + | | | 1 | | | | 1 | | | 108 | \$ 21,120,00 | 007 | \$ 21,120.00 | | 80.08 | | |
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| The contine | | | | Le Bent | | | | _ | | | | | | | | | | | | | | | | | | | |
|--|---|--|----------------|---|---------------------------------|--------------|--|-----------------------------|--|------------------------------|--------------------|--------------------|-----|-------------------|-------------------------------|---------------------|--------|-------|-------|---------------------------------|---------------------------|---------------|------------------------------|------|------------------------------|------------------------------|--------------------------|
| | Pes | QAA! Project /Techn illon Principal Specia | ical Sr. PM | Fine Fine Fine Fine Fine Fine Fine Fine | Proj Eng. (Process Mech.) | Sr. Mech) | . Proj. Mgr Pro rch/Struc. (Arch) | Eng. Ell Struc Arch/5 | Sr. Proj. M _i ruc. (IRC/SCAD | r Proj Eng. A (I&C/SCADA. | ET 2/SCADA 1 | it. Env dentist | | Survey (ST/PM) | Fleid Craw (2-Man Crew) | Sr. CAD Designer | CAD W | - | | a - Ardura Sut Tura Labor Co | | | Gupta Gupta (Electrica | | Subconsultant As Total Ma | durra Sub k-up (1000) (A) | Total Con rdurra + Su |
| | | MATER S ZOUGO S ZS | 272.5 | 00.622 6 | | 2 240.00 | 240.00 | * | 0.00 2 240.0 | 20.00 | 228.62 | 4 00.612 | 0 | 2020 | 2 203-00 | 20200 | 233.00 | 1 n | 93.D0 | | + | 1 | (5) | 1 | | 55 | 2 |
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| | Membrane Building Alternative workshop preparation, meeting agenda, PowerPoint 4.2.1 presentation & development meeting minutes | | 4 | | Ħ | z | 80 | 90 | | | | | | | | | | 4 | 3 | | 60,03 | 5 11.76 | 90'0 | | \$0.00 | | 11,760.00 |
| 1 1 1 1 1 1 1 1 1 1 | PER Review workshop preparation, meeting ager PowerPoint presentation & development meetin, 4.2.2 minutes | g, epu | ω. | | ä | z | | | | | | | | | | | | , | X | | 00.00 | 056 | | 5.00 | 51642.00 | | 1 000 |
| No. Column Colu | Project Task Expenses (5% on Subtotal Hrs Cost) | o | | | 318 | - 6 | | 36 | ٠ | 24 | 40 | | | | | 101 | | 8 | | | \$ 15,53 M DD \$ 15,53 | 2.00 \$ 15.53 | | | \$ 00.00 \$ | | 1 1 |
| 1 | CTATATION MOLTANIGROOD SOUTHWAY SHOTH HISTORY | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The control of the co | TCEQ Coordination Meetings (up to 2) preparation meeting agends, PowerPoint presentation, & 5.1 meeting minutes | ý. | | | 65 | * | | | | | | - | | | | | | - | 4 | | 80.00 | \$ 7.48 | 90'0 | | 00.00 | | 7.480.00 |
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| Note that the property of the | ıı | | 7 | | 2 | 24 | | | | | | | | | | | | 9 | 36 | s | 30.00 | 5 5,23 | 0.00 | | \$0.00 | | |
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| 1 | 6.0-TWOILDWSRESSINDING APPLICATION SUPPORT SERV | HERE | | | | | | | | | | | - | | | | | | | | | 200 | - | | 0 | | |
| This is a continue of the co | Funding Opportunities Workshop preparation, meeting agenda, PowerPoint presentation & 6.1 development meeting minutes | | 50 | ę | | | | | | | | | | | | | | | 98 | 10 | 20.00 | | 0.00 | | \$0.00 | | 12,320,00 |
| 1 | 6.2 Funding Application Assistance | | | | | | | | | | | - | - | | | | | | ٥ | s | | s | | | \$0.00 | | |
| 1 | 6.2.1 TWDB SWIFT Funding Application and Processing | | ea | 2 | | 24 | - | | | | | | + | + | | | 85 | | 12. | 57 | 00.00 | \$ 25,60 | 0.00 | | \$0.00 | | 25,600.00 |
| 1 1 1 1 1 1 1 1 1 1 | 6.2.3 A 3rd Funding Application and Processing | 200 | m es | 8 8 | | 24 | | - | | | | ŀ | - | - | | | 60 60 | ac 40 | 125 | 5 5 | 00.00 | \$ 25.60 | 00.00 | | 20.02 | | 25,600.00 |
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| 1 | 6.5 Other Supporting Decuments/Deliverables Project Tack Eveneses (5% on Subtotal Hre Cost) | | 66 | 40 | | | | + | | | | + | | - | 1 | | - | - | 4 | 5 | 00.001 | | 0.00 | + | \$ 00.00 | | 11,200.00 |
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| 1 | 7.0 - MEMBRANE BUILDING CHITICAL DIMENSIONS/ELEVA | TIONS 3D LASER SCANN | ING | | STREET, ST. | Section 1988 | | | No. of the last | The second | Thursday. | | | | | | | | | | - | STOCK OF THE | | | | | |
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| State Stat | Project 1858 Expenses (5% on Sudders) H75 COST. | • | | | 0 | 0 | | 9 | ٥ | 0 | 0 | | B B | 120 | 99 | 9 | 0 | 0 | 0 38. | i. | 5 1,6 | w w | | | \$0.00 | | 1,695.00 |
| 1 | F B 0 - MISC, ADDITIONAL SERVICE TASKS | | | | | | | | | | | | | | | | | | 31 | | | | | | | | |
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| 8 34 40 34 2 | Splitter box and chemical miking design revision | | 60 | - | 16 | 24 | | | 1 | - | 1 | 1 | 1 | | | 9 | | + | 66 | s | 240.00 | \$ 15,04 | 10.00 | | \$ 00.05 | | - 1 |
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| Project Equitation Color Test Color Te | 1. 1. 1. 1. 1. 1. 1. 1. | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | CRWA HC WTP Preliminary Engineering Report | | | | + | | | | | | | | | | | | | | | | | | |
|--|--|--|---|-----------|-----|----------------|-------|----------------|------|---------|-----|---------|-----|--------------|---------|---------|---------|-------|------|------|--|------|------|--------|------|
| House, Green Green House, Green, Green House, Green, Gr | 1 | 1 | | Principal | | Project Manage | 1 | lineer - Senio | | ngineer | | ngineer | 1 | ech - Senior | - | | Account | H | | | | ODCs | _ | Markup | |
| Mathematical Color Mathema | Column C | | pta & Associates, Inc. | Hours Co | 1 1 | urs Cos | | Cos | H | Cos | 000 | Cost | | Cost | \perp | ≥ | Hours | 3 | 2 | 4 | The laboration of the laborati | Ť | SUBs | 29% | Cost |
| 1. 1. 1. 1. | Controlled Marches Control | Control Cont | SUMMARY - BASIC SERVICES | | | | | d | | | | | | | | | | Н | Ц | Н | Ц | | | | |
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| 1.05 Prefilted State Membrane Height Report 1.05 Prefilted State Membr | 1 | 1 | 1.8 | 5 | | 52 | | 20 | | 5 | | 1 45 | , | | | | 4 | | | 0 | 9 09 | 1 | | | 9 0 |
| Publication | 1 | Column C | 1.9 | 50 | | 10 | | 10 | | 10 | | 49 | | | | | | | | - | u | | | | , , |
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| Colored Colo | 1 1 1 1 1 1 1 1 1 1 | 1 | 2.1 Initial Site Visit and Investigation | ** | | 57 | 2,232 | 10 | | | 260 | | 350 | , | - | 1 | - | | | - 24 | U. | | C | 8 5 | |
| Column C | 1 | 1 | 2.2 Prepare Draft Tech Memo | 0 8 | | | 2,232 | | | | 630 | 49 | | 5 | | | V1 | | 5 | L | US | | 12 | 5 | |
| 1 | 1 | | 3.2 Prepare 30% Drawings | 10 | | 10 | • | st | | | 260 | 17 | 378 | 1 5 984 | | 3,434 | 47 | • | v | | u | L | 000 | 2 | |
| Column C | 1 | 1 | 2,3 Submit Draft Tech Memo | 0 8 | • | 0 3 | | | 028 | | | 5 | | 5 | | , | v | | 0 | 4 | 65 | | 12 | 5 | |
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| State Stat | | 1 | 2.7 BI-Weekly Design Team Coor Meetings (Report | 50 | | 67 | • | s) | • | | 340 | 5 | 200 | | | 1 | s | | S | - 24 | | | 00 | 99 | |
| Color Colo | Column C | 1 | | 8 | | 9 | • | 49 | • | v | | | | 150 | | | so | • | ** | | 49 | | 00 | 90 | |
| S | Column C | Column C | Miscellaneous | 50 | | 89 | • | 10 | , | 50 | | | 3. | | | • | w | | 5 | 0 | u) | L | 000 | S | 69 |
| S | 1 | 1 | 2.15 Task 2: Membrane Alternative Eval | 50 | | 49 | • | 89 | | 2 \$ | 390 | s | 336 | TA: | | 7 | s | | s | 10 | (A) | | 22 | So | |
| S | 1 | Column C | Z. 16; Lask 3; Membrane Pilot Study | 50 | | 19 | - | 57 | | * | 780 | v) | 229 | | | 1,616 | n | • | s | - 40 | s | | 25 | S. | ı |
| 1 | 1 | 1 | 2.17 | 50 | | 59 | • | s | • | s) | | v | | , | | • | s | • | s | 0 | 49 | L | 90 | 05 | us. |
| S S S S S S S S S S | 1 | 1 | 2,17 | n | | 17 | | sò. | , | 49 | 1.5 | v | | | | | vo | | 57 | | 65 | | 00 | 95 | 69 |
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| \$0 24 \$5,596 10 \$2,570 72 \$14,040 174 \$29,058 12 \$1,476 50 \$5,050 6 \$773 8 \$677 356 \$60300 \$2,645 80 | 50 24 \$5,696 10 \$2,570 72 \$14,040 174 \$29,058 12 \$1,476 50 \$5,696 6 \$7.28 8 \$6,300 \$2,615 \$0 \$0 | 50 24 \$5,696 10 \$2,570 72 \$14,040 174 \$29,038 12 \$1,476 50 \$6,696 6 \$736 8 \$6,300 \$2,615 \$0 \$0 | | s | • | 49 | | 10 | | | | 17 | | 5 | ĺ | | w | | 5 | 0 | 69 | | 0 | 98 | 15 |
| | | | | 0 | 05 | | 5,596 | | ,570 | 72 \$14 | | | | | | \$5,050 | 9 | \$738 | | | | B | | | |
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August 10, 2023

Yue Sun, PE Water Treatment Practice Leader/ Sr. Project Manager Ardurra Group, LLC 3115 Allen Pkwy Suite 300 Houston, TX 77019

Dear Ms. Sun,

Thank you for the opportunity for KWH Engineering to provide HVAC engineering consulting service for the Canyon Regional Water Authority Hays Caldwell WTP Nanofiltration System Improvements project. We are pleased to propose the followings for our scope and fee.

Scope:

Preliminary Design Phase

- Assess the HVAC/Plumbing/Fire Protection requirements for two (2) improvement alternatives for the membrane building improvements, including:
 - 1) Expansion of the existing membrane building
 - 2) Construction of a new membrane building to house new equipment
- The HVAC/Fire Protection tasks include project kickoff, information/data collection, code review and analysis, confirmation of design criteria, site visit, development of PDR, OPCC, and development 2D schematic layout (20% level design), etc.

Fee:

Project Management:

\$720

Preliminary Engineering Design:

\$16,920

Total (lump sum):

\$17,640

Assumption:

One site visit (conducted on July 5, 2023). Any additional site visits will incur an extra fee upon request.

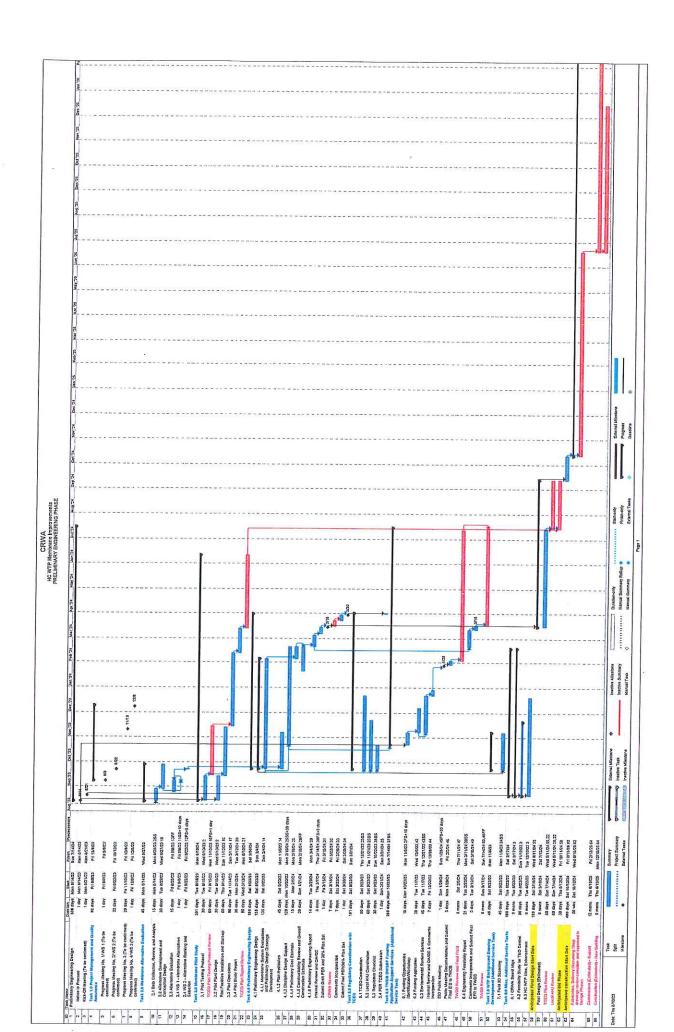
Thank you very much! We are excited and look forward to working with you on this project!

Sincerely,

Sophi Feng, PE

Manager

KWH Engineering LLC



CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------|---------|---------------|
| DATE | SOBSECT | |

09/11/2023

AWARD OF CONSTRUCTION CONTRACT

CRWA 23-09-054

INITIATED BY

JOHN KAUFMAN / DAVID MCMULLEN

STAFF RECOMMENDATION

Approval of a construction contract award with RAM Utilities, LLC for the CRWA FM 1518 Water Transmission Line Relocation Project in the amount of \$731,420.79.

BACKGROUND INFORMATION

Four (4) construction bids for the project were received on August 29, 2023. Three (3) of the bids received satisfied all the bid requirements and are considered qualified bids.

On August 31, 2023, Utility Engineering Group (UEG) determined that RAM Utility, LLC submitted the lowest cost qualified bid and recommends that RAM Utility be awarded the construction contract for the base bid amount of \$731,420.79. UEG's letter of recommendation is attached.

FINANCIAL IMPACT

Approximately 20.02% of the construction project (or \$146,430.22) would be reimbursable. The remainder (about \$584,990.57) would not be reimbursable.

MOTION

Motion to approve the following resolution.

AT for GM

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-054

BE IT RESOLVED that a Construction Contract award to RAM Utilities, LLC for the CRWA FM 1518 Water Transmission Line Relocation Project in the amount of \$731,420.79 is approved.

| | Adop | oted this 11 th | day of Septe | mber 2023 | |
|----------------------------|------|----------------------------|--------------|-----------|-------------------------------------|
| | Ayes | Nays | Abstained | Absent | |
| | | | Approve | ed by: | Timothy D. Fousse, CPM President |
| Certified and attested by: | | Davis Cha | | | |
| | | Doris Ste Secretary | | | |



August 31, 2023

Mr. John Kaufman General Manager Canyon Regional Water Authority 850 Lakeside Pass New Braunfels, Texas 78130

Re: Canyon Regional Water Authority – FM 1518 TxDOT Water Transmission Main

Relocation

Recommendation for Award

Dear Mr. Kaufman,

Utility Engineering Group, PLLC (UEG) has reviewed the bids received on Tuesday, August 29, 2023, for the Canyon Regional Water Authority (CRWA) FM 1518 Water Transmission Main Relocation Project. CRWA received four (4) bids for this project. Of the four bids, one bid contained a math error, and one bid did not include all required forms to be submitted as noted on the attached bid tabulation. The project was advertised in the San Antonio Express News on July 20th and July 27th, 2023. The project was also posted on CIVCAST for the duration of the bidding process.

UEG recommends awarding the lowest cost, most responsive bidder, Ram Utilities, LLC, for the total base bid of \$731,420.79. Ram Utilities, LLC met all requirements in the bid documents and their bid submittal satisfied all requirements for CRWA. Ram Utilities, LLC has provided the required bid security, information required of the bidder, and qualifications statement as required by the bid documents; therefore, we have no reservation recommending approval of this project to Ram Utilities, LLC.

Sincerely,

David Kneuper, P.E.
Utility Engineering Group, PLLC

Office: (830) 214-0521 davidk@uegpros.com

Attachments: Bid Tabulation

CANYON REGIONAL WATER AUTHORITY - FM 1518 WATER TRANSMISSION MAIN RELOCATIONS

Project Name and Phase: CRWA - FM 1518 WATER TRANSMISSION MAIN RELOCATIONS Engineering Firm: UTILITY ENGINEERING GROUP Prepared By: David Kneuper, P.E.

Bid Tabulations

| | | il was | NAMES LLC | ٥ | Maver | Maverlek Underground Inc. | Inc. | | Nelson Lewis Inc. | | Daniel | The state of the s | 5 |
|--|------|-------------|-----------|-----------------------|--------------------------|---------------------------|--------------|--|----------------------------|--------------|-------------------|--|----------------|
| ane No Item Description | Unit | Unit Price | Quantity | Quantity Total Amount | Unit Price | Quantity | Total Amount | Unit Price | Ouantity | Total Amount | Disa. | resudo Construction Company | npany |
| | | | | | Base Bid | 70 | | | | | STILL PRINCE | Quantity | Total Amount |
| BONUS, MOBILIZATION, & INSURANCE | SI | \$66492,80 | | \$66.492 RD | Cappen on | | | | | | | | |
| 2 TRENCH EXCAVATION PROTECTION PLAN | L. | \$3.50 | 20 | | \$58830.00 | L 01 | " | \$40000,00 | - | \$40,000,00 | \$9000000 | - | \$90,000,00 |
| 3 HYDROSTATIC TESTING & PIPE DISINEECTION | 5 | | | | | 3 | 93,062.50 | \$10.00 | 20 | \$500.00 | \$121.00 | 50 | \$6,050.00 |
| | S | \$4500.00 | | \$4,500.00 | \$1320.75 | - | \$1,320.75 | \$5000.00 | * | 0000 | | | |
| | LS | \$6875.00 | • | \$6,875.00 | \$8625.00 | 1 | \$8 625 00 | 850000 | | \$5,000.00 | \$4836.00 | - | \$4,836.00 |
| STT DETAILS FLAN & IMPLEMENTATION | LS | \$1740.00 | - | \$1,740.00 | \$7164.00 | | \$7.164.00 | 9200.00 | - | \$500.00 | \$5000.00 | - | \$5,000.00 |
| T | LF. | \$50.00 | 297 | \$14,850.00 | \$10.00 | 790 | 00,070,09 | 9900.00 | - | \$500,00 | \$13000.00 | 1 | \$13,000.00 |
| | MO | \$5685,00 | 4 | 82 | \$4142.00 | 100 | 22,370,00 | \$20.00 | 297 | \$5,940.00 | \$48,50 | 297 | \$14,404.50 |
| | 5 | \$470.00 | 4 | | \$475.00 | 7 0 | 915,358.00 | \$200.00 | 4 | \$800.00 | \$5306,00 | 4 | \$21,224.00 |
| 9 30" DI CL 250 WTR LN (BORE) | 4 | \$831.00 | | | \$1200.00 | 9 070 | \$22,800.00 | \$900.00 | 48 | \$43,200.00 | \$1600.00 | 48 | \$76,800.00 |
| | H. | \$460.00 | | | 00.00 | 647 | \$286,800,00 | \$600,00 | 249 | \$149,400.00 | \$515.00 | 249 | \$128 235 00 |
| 30" GATE VALVE & BOX (COMPLETE) | EA | \$106537,24 | | | 00.4500 00.4500 | 248 | \$145,416.00 | \$1650.00 | 249 | \$410,850.00 | \$1200.00 | 249 | \$298,800,00 |
| | EA | \$24259.00 | 0 | | \$4500 00 | - 0 | \$82,020.00 | \$85000.00 | 1 | \$85,000.00 | \$61380,00 | F | \$61,380,00 |
| 13 DUCTILE IRON FITTINGS | ZCF | \$22115.00 | | | 913000.00 | 7 | \$30,012.00 | \$25000.00 | 2 | \$50,000,00 | \$42051.50 | 0 | 20.000,100 |
| | | 8145 00 | F | | \$25445.00 | 8 | \$76,335.00 | \$20000.00 | 6 | \$60.000.00 | S55825.00 | 4 0 | 204,103.0 |
| ABANDONNEN OF EX 42" STEEL CASING IN-PLACE, 14 REMOVAL OF CARRIER PIPE, CASING TO BE FILLED WITH | | 2000 | | | \$81.75 | 76 | \$6,213.00 | \$350.00 | 76 | \$26,600.00 | \$170.50 | 2 87 | \$157,475.00 |
| FLOAWABLE FILL AND CAPPED | - | | | | | | | | | | | | 0.000 |
| | u. | \$55.00 | 400 | 00 373 24 | | | | | | | | | |
| 16 STABILIZED CONSTRUCTION ENTRANCE | + | \$4650.00 | 2 6 | | \$21.00 | 139 | \$2,919.00 | \$140.00 | 139 | \$19.460.00 | \$344 50 | 4 | 2 100 110 |
| 17 SILT FENCE | 5 4 | 20000 | | 00,008,88 | \$1170.25 | 2 | \$2,340.50 | \$3000.00 | 2 | \$6.000.00 | \$2245.00 | 000 | 347,885,50 |
| 18 SITE RESTORATION, FINAL GRADE, & REVEGETATION | 3 2 | 0.00 | | | \$6.50 | 369 | \$2,398.50 | \$8.00 | 369 | S2 952 DD | 00000 | 7 | \$4,490.00 |
| FOTAL BASE BID COST: | 0 | 910.03 | 1,700 | | \$2.00 | 1700 | \$3,400.00 | \$1.00 | 1700 | \$4 700 00 | 00.00 | 308 | \$5,904.00 |
| | | | | \$731,420.79 | | | \$751,214,25 | | | COOR AND ON | 9.10.00 | 1700 | \$27,200.00 |
| | - | | | | ALTERNATE BID | CIB | | | | 00.000 | | | \$1,069,745.00 |
| 10A CASING SPACERS (JACK & BORE) | 5 | \$1161.86 | 249 | \$289,303.14 | \$646.00 | 249 | \$160,854.00 | \$1790.00 | 249 | \$445,710.00 | \$517.00 | 249 | \$128,733,00 |
| IOTAL ALTERNATE BID COST: | | | | \$906,183.93 | | 1 | 20 020 024 | | | | The second second | | |
| NOIGO. | | | | ** | TI IVIO CIVIOCIN | CONCLE | 01.00,002.50 | | | \$943,262.00 | | | \$1,198,478.00 |
| | | | | <u> বি</u> | AND SIGNED BID FORM PAGE | FORM PAGE | A LEMENTS | MATH ERROR ON LINE ITEM TO TOTAL AMOUNT ERROR | V LINE ITEM 10 NT ERROR | | ONFIRMED WI | CONFIRMED WITH CONTRACTOR THAT ITEM 10A UNIT PRICE IS IN ADDITION TO | OR THAT |
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CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------|---------|---------------|
| DATE | 3033101 | |

09/11/2023

FIXED COST BLENDING ANALYSIS

CRWA 23-09-055

INITIATED BY

JOHN KAUFMAN / JOAN WILKENSON

STAFF RECOMMENDATION

Approval of a contract with NewGen Strategies & Solutions to perform an analysis of fixed cost blending for Lake Dunlap and Wells Ranch Operating Expenses at a cost not to exceed \$17,500.

BACKGROUND INFORMATION

CRWA Staff and member entities of the Lake Dunlap and Wells Ranch systems desire to determine if there is an appropriate accounting methodology that could be acceptable between CRWA member entities which would blend fixed costs for these systems to continue to move CRWA toward a system-wide cost allocation approach. This evaluation would involve potential revision of the current fixed cost allocation methodology for the Lake Dunlap and Wells Ranch Systems.

NewGen Strategies & Solutions, which is familiar with CRWA's accounting system and has performed other accounting studies for CRWA, was requested to submit a proposal to conduct this accounting analysis. Their proposal is attached.

FINANCIAL IMPACT

The fiscal impact is \$17,500.

MOTION

Motion to approve the following resolution.

AT for GM

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-055

BE IT RESOLVED that a contract with NewGen Strategies & Solutions to perform an analysis of fixed cost blending for Lake Dunlap and Wells Ranch Operating Expenses at a cost not to exceed \$17,500 is approved.

| | Adopted | this 11 th d | ay of Septer | nber 2023 | |
|------------------------------|---------|-------------------------|--------------|-----------|-------------------------------------|
| | Ayes N | lays A | bstained | _ Absent | |
| | | | | | |
| | | | Approve | d by: | |
| | | | | | Timothy D. Fousse, CPM President |
| | | | | | |
| Certified and attested by: _ | | | | | |
| | | Doris Steub | oina | | |
| | | Secretary | nig | | |



275 W. Campbell Rd. Suite 440 Richardson, TX 75080 Phone: (972) 680-2000

August 29, 2023

Ms. Joan Wilkinson Canyon Regional Water Authority 850 Lakeside Pass New Braunfels, Texas 78130

Re: Engagement Letter—Analysis of Fixed Cost Blending for Lake Dunlap and Wells Ranch Operating Expenses

Dear Ms. Wilkinson:

Based on our conversations, it is our understanding that Canyon Regional Water Authority ("CRWA") is interested in engaging NewGen Strategies and Solutions, LLC ("NewGen") to assist CRWA in evaluating the potential revision to the current fixed cost allocation methodology for the Lake Dunlap and Wells Ranch Systems. Specifically, CRWA is interested in determining if there is a methodology that would be acceptable between CRWA members and project participants which would blend fixed cost for these systems to continue to move CRWA towards more of a system-wide cost allocation approach.

At this time, we anticipate the scope of services of this engagement to include, but not necessarily be limited to, the following:

- Review up to the last three (3) years of fixed cost allocation specific to the Lake Dunlap and Wells Ranch systems;
- Based on this review, evaluate potential alternative fixed cost allocation methodologies, or phase-in methodologies, which would achieve a blending of fixed costs, reflective of any limitations that may exist with the currently applicable;
- Prepare workpapers and/or other briefing materials to explain the issue to project participants and the proposed changes to the cost allocation method;
- Attend meetings or other briefing sessions that may be needed to explain the work of the project team;
- Should project participants desire to implement the proposed cost allocation method or some other alternative, work with staff on developing the processes and procedures necessary to implement the chosen methodology; and,
- Other services as may be requested to achieve the desired project goals and objectives.

Ms. Joan Wilkinson August 29, 2023 Page 2

Proposed Timing and Fees

The Project Team will endeavor to work as quickly as possible to provide CRWA with draft results / recommendations for consideration.

NewGen anticipates that the fees necessary to execute the above scope of services to be \$17,500, inclusive of out-of-pocket expenses incurred at cost. NewGen commits that those costs incurred under this agreement will not exceed \$17,500 without prior written authorization of CRWA. However, CRWA specifically agrees that NewGen shall not be required to furnish services or incur expenses above \$17,500 without additional funding committed by CRWA.

As services are requested and performed under this engagement, NewGen will invoice CRWA on a monthly basis for actual hours worked at our then applicable hourly billing rates, plus out-of-pocket expenses incurred at cost. Our current billing rates, which will remain in effect through December 31, 2024, are as follows:

NewGen Strategies and Solutions 2024 Billing Rates

| Position | Hourly Billing Rate | |
|-------------------------|---------------------|--|
| Partner | \$265 - \$405 | |
| Principal | \$250 - \$405 | |
| Senior Manager | \$225 - \$280 | |
| Manager | \$195 - \$225 | |
| Senior Consultant | \$170 – \$195 | |
| Consultant | \$160 - \$170 | |
| Administrative Services | \$130 | |

Note: Billing rates are subject to change based on annual reviews and salary increases.

Other Terms and Conditions

This agreement is subject to cancellation by CRWA with thirty (30) days prior written notice provided to NewGen. In the event of cancellation, all labor and expense charges incurred by NewGen through the date of cancellation will be considered due at the time notice of cancellation is delivered, regardless of work product and/or engagement status.

All payments made under this engagement should be remitted to:

NewGen Strategies and Solutions, LLC 275 W. Campbell Rd, Suite 440 Richardson, Texas 75080

By executing this letter, you agree that the services rendered by NewGen will be performed in accordance with instructions or specifications received by CRWA and will be provided with the degree of skill and judgment exercised by recognized professionals performing services of similar nature and consistent with the applicable industry best practices. You further agree that compensation for services rendered will be provided to NewGen regardless of the final outcome of the engagement.

DocuSign Envelope ID: 8E467D06-D6BC-48DE-A7D1-A9DF5E70A4FF

Ms. Joan Wilkinson August 29, 2023 Page 3

If this letter and its terms and conditions are acceptable, please execute one copy and return to our Richardson, Texas office. If you should have any questions regarding this letter and/or require additional information, please contact Chris Ekrut at (972) 232-2234 or cekrut@newgenstrategies.net.

Chris D. Elevet

Chief Financial Officer

Canyon Regional Water Authority Analysis of Fixed Cost Blending for Lake Dunlap and Wells Ranch Operating Expenses Not-to-Exceed Fee of \$17,500

| Signed | Printed |
|--------|---------|
| Title | Date |

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CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | SUBJECT | AGENDA NUMBER |
|------|---------|---------------|
| DATE | SUBJECT | AGENDA NOPIA |

09/11/2023

EMPLOYEE LIFE INSURANCE BENEFITS

CRWA 23-09-056

INITIATED BY

JOHN KAUFMAN / JOAN WILKENSON

STAFF RECOMMENDATION

Approval of additional life insurance benefits for CRWA employees through the Texas County and District Retirement System (TCDRS) at a rate of 0.17% of wages for a cost of \$3,413.00 in FY 2024.

BACKGROUND INFORMATION

TCDRS is offering additional life insurance benefits for CRWA employees at a very low cost. The additional cost is included in the proposed FY 2024 Budget. TCDRS desires the CRWA Board of Trustees to pass a specific resolution authorizing the new life insurance benefits for its employees.

FINANCIAL IMPACT

The financial impact is \$3,413.00 in FY 2024 and is included in the FY 2024 Budget.

Моттом

Motion to approve the following resolution.

AT for GM

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-056

BE π RESOLVED that additional life insurance benefits for CRWA employees through the Texas County and District Retirement System (TCDRS) at a rate of 0.17% of wages for a cost of \$3,413.00 in FY 2024 is approved.

| | Ado | pted this 11 th | day of Septe | ember 2023 | |
|----------------------------|------|----------------------------|---|------------|-------------------------------------|
| | Ayes | Nays | Abstained | Absent | |
| | | | | | |
| | | | Approv | ed by: | |
| | | | | | Timothy D. Fousse, CPM President |
| | | | | | |
| Certified and attested by: | t . | | * | | |
| | | Doris Ste Secretary | (A 1 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a 2 a | | |

CANYON REGIONAL WATER AUTHORITY BOARD COMMUNICATION

| DATE | Subject | AGENDA NUMBER |
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09/11/2023

NEW RATE METHODOLOGY FOR HAYS CALDWELL PARTICIPATING MEMBERS

CRWA 23-09-057

INITIATED BY

DORIS STEUBING OF MAXWELL SUD

RECOMMENDATION

Approval to take appropriate action regarding the Amended and Restated Regional (Hays/Caldwell Counties Area) Water Supply and Treatment Contract, made effective February 9, 2021, including but not limited to, directing CRWA staff to develop a new rate methodology for Participating Members who exceed their annual allotment of water under the Contract.

BACKGROUND INFORMATION

The motion above was requested by Ms. Doris Steubing, Board Member of the Maxwell SUD and Secretary of CRWA on September 6, 2024, in an email to Justin Ivicic, GM of Maxwell SUD, with electronic copy John Kaufman (General Manager of CRWA), Trey Wilson (Special Counsel to CRWA), Tim Fousse (President of CRWA), Branndon Rohan (Vice President of CRWA), Zachariah Evans (Counsel to Maxwell SUD), and Regina Franke (General Manager of Crystal Clear and CRWA Treasurer).

A copy of the Amended and Restated Regional (Hays/Caldwell Counties Area) Water Supply and Treatment Contract, made effective February 9, 2021, is included herein by reference.

FINANCIAL IMPACT

There is no financial impact forecast at this time.

Моттом

Motion to approve the following resolution.

For Gun

CANYON REGIONAL WATER AUTHORITY

RESOLUTION No. 23-09-057

AND

RESOLUTION DIRECTING CANYON REGIONAL WATER AUTHORITY TO IMPLEMENT EQUITABLE RATE METHODOLOGY FOR ALL PARTICIPATING MEMBERS OF THE AMENDED AND RESTATED REGIONAL (HAYS/CALDWELL COUNTIES AREA) WATER SUPPLY AND TREATMENT CONTRACT, MADE EFFECTIVE FEBRUARY 9, 2021

WHEREAS, Canyon Regional Water Authority (the "Authority") entered into the above-referenced Contract with participating members Maxwell Special Utility District ("Maxwell"), County Line Special Utility District ("County Line"), Crystal Clear Special Utility District ("Crystal Clear"), and the City of San Marcos ("City") (collectively the Participating Members"); and

WHEREAS, pursuant to Schedule I of the Contract, Crystal Clear was originally allotted 500 acre-feet of capacity in the Hays-Caldwell Area Plant ("Plant"), and, under Schedule II, Crystal Clear was not allotted any additional water from the Plant; and

WHEREAS, in 2022, Crystal Clear took over 700 acre-feet of water from the Plant, but did not pay its equitable share of all maintenance and special assessment costs associated with the Plant's production of the additional water that Crystal Clear took; and

WHEREAS, Section 5.01 of the Contract provides the Participating Members annual payments for their share of the Plant's capacity ("Annual Requirement") shall be set by the "Authority based upon a rate methodology to be developed by the Authority and according to their respective percentage shares of treated water covered by this Amended and Restated Contract ... and the Annual Requirement for each Annual Payment Period shall be identified in each annual budget and shall at all times be not less than an amount sufficient to pay or provide for the payment of [] all Participating Members Operation and Maintenance Expenses" and a capital component sufficient to pay the bonds issued under the Contract; and

WHEREAS, because the Contract makes clear the Authority has the responsibility of setting a rate methodology, the Board of Trustees finds the Authority's staff and consultants must determine a new rate Mmthodology that is fair and equitable to all Participating Members;

Now, therefore, BE IT RESOLVED as follows:

The General Manager of the Authority and its consultants are directed to calculate a new rate methodology that is fair and equitable to all of the Participating Members. The rate methodology must also fairly account for any capacity Participating Members may take above and beyond the quantities allotted under the Contract.

[Execution page follows.]

| | Adop | oted this 11 th | | | |
|----------------------------|------|----------------------------|-------------|--------|-------------------------------------|
| | Ayes | Nays | _ Abstained | Absent | |
| | | | Approve | ed by: | Timothy D. Fousse, CPM President |
| Certified and attested by: | | Doris Ste Secretar | (CT) | | |

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