

**Alliance Regional Water Authority
Technical Committee**

REGULAR MEETING



ALLIANCE WATER

COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

Call-In Number: 1-346-248-7799

Meeting ID: 968 8616 3170

Passcode: 495028

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

A quorum of Alliance Regional Water Authority's (the Authority's) Technical Committee will hold a meeting by telephonic conference call at 3:00 PM, Wednesday, January 12, 2022. The public may participate in this meeting by calling the following number and code:

ZOOM MEETING LINK

Call-In Number: 1-346-248-7799

Meeting ID: 982 8616 3170

Passcode: 495028

Members of the public wishing to make public comment during the meeting must register by emailing info@alliancewater.org prior to 3:00 p.m. on January 12, 2022. This meeting will be recorded and the audio recording will be available on the Authority's website after the meeting. A copy of the agenda packet will be available on the Authority's website at the time of the meeting. Additional information can be obtained by calling Graham Moore at (512) 294-3214.

A. CALL TO ORDER

B. ROLL CALL

C. PUBLIC COMMENT PERIOD (Note: Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.)

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held December 8, 2021. ~ *Graham Moore, P.E., Executive Director*

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Chris Noe, P.E., Pape-Dawson Engineers*

F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*

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- F.3 Possible recommendation to the Board to approve an Interlocal Cooperation Agreement with the City of San Marcos for San Marcos Regional Water Treatment Plant and Blanco Vista Storage Tank Improvements. ~ *Graham Moore, P.E., Executive Director*
- F.4 Discussion and possible recommendation to the Board to approve a Work Order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
- F.5 Discussion and possible direction to Staff on items affecting the Phase 1B Program, to include the possibility of logos on the elevated storage tanks, increased pressure and capacity in the Segment D pipeline and possibly allowing contractor personnel to temporarily live on property owned by the Authority. ~ *Graham Moore, P.E., Executive Director*
- F.6 Discussion and possible direction to Staff regarding impacts of the Union Pacific Railroad Crossing expansion project at Kohler's Crossing and it's impacts on the Segment C and Phase 1A pipeline projects. ~ *Graham Moore, P.E., Executive Director*
- F.7 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities. ~ *Graham Moore, P.E., Executive Director*
- G. EXECUTIVE DIRECTOR REPORT - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*
- H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.
- I. EXECUTIVE SESSION

REGULAR MEETING
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COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

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- I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*
 - A. *Water supply partnership options*
 - B. *Groundwater leases*
 - C. *Acquisition of real property for water supply project purposes*

- I.2 *Action from Executive Session on the following matters:*
 - A. *Water supply partnership options*
 - B. *Groundwater leases*
 - C. *Acquisition of real property for water supply project purposes*

J. ADJOURNMENT

NOTE: *The Technical Committee may meet in Executive Session to consider any item listed on this agenda if a matter is raised that is appropriate for Executive Session discussion. An announcement will be made of the basis for the Executive Session discussion. The Technical Committee may also publicly discuss any item listed on the agenda for Executive Session.*

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A. CALL TO ORDER

No Backup Information for this Item.

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B. ROLL CALL

<u>NAME</u>	<u>PRESENT</u>
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Blake Neffendorf

James Earp

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

<u>NON-VOTING MEMBERS</u>	<u>PRESENT</u>
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Mayor Lee Urbanovsky

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C. PUBLIC COMMENT PERIOD

Each person wishing to speak must submit a completed Public Comment Form to the Executive Director or his/her designee before the public comment period begins.

Comments are limited to 3-minutes per agenda item and three minutes total for all non-agenda topics. If using a translator, comments are limited to six minutes per agenda item and six minutes total for non-agenda topics.

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D. CONSENT AGENDA

Item D.1 is presented as part of the consent agenda.

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D.1 Consider approval of minutes of the Technical Committee Meeting held December 8, 2021. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2021 12 08 Technical Committee Meeting Minutes

Technical Committee decision needed:

- Approval of minutes.



ALLIANCE WATER

Alliance Regional Water Authority

TECHNICAL COMMITTEE MEETING

MINUTES

Wednesday, December 8, 2021

The following represents the actions taken by the Technical Committee of the Alliance Regional Water Authority (Alliance Water) in the order they occurred during the meeting. The Technical Committee convened in a meeting on Wednesday, December 8, 2021 by telephonic conference call in accordance with Governor Abbott's Executive Order, declaration of the COVID-19 public health threat, and action to temporarily suspend certain provisions of the Texas Open Meetings Act.

A. CALL TO ORDER.

The Alliance Water Technical Committee Meeting was called to order at 3:07 p.m. by Mr. Earp.

B. ROLL CALL.

- **Present: Neffendorf, Earp, Kite and Ramos.**
- **Absent: Franke, Samford and Urbanovsky.**

C. PUBLIC COMMENT PERIOD

- **None.**

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held October 13, 2021.

- **Motion to adopt the minutes as presented was made by Mr. Earp, seconded by Mr. Neffendorf and approved on a 4-0 vote.**

E. PRESENTATIONS TO THE COMMITTEE

E.1 None.

F. ITEMS FOR COMMITTEE ACTION OR DISCUSSION/DIRECTION

- F.1 Update and possible direction to Staff regarding construction of the Authority's Phase 1B program.
- **Mr. Noe provided an update on the Phase 1B construction.**
 - **No Action.**
- F.2 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B program.
- **Mr. Sowa provided an update on the Phase 1B program as well as updates to the overall Program schedule and budget.**
 - **No Action.**
- F.3 Possible recommendation to the Board to contingently award a construction contract for the Authority's Phase 1B Segment B Pipeline Project.
- **Mr. Ramos asked if there's been further consideration of packaging more construction projects together to achieve better economies of scale.**
 - **Mr. Moore responded that the schedule as not afforded this direct opportunity, but that it is likely that already having the Segment A Pipeline project allowed Garney Construction to lower their bid on the Segment B project.**
 - **Mr. Kite asked how the cost per linear foot of steel pipeline for Segment B compared to Segment A for the 42-inch line size.**
 - **Mr. Moore responded that he did not have this information available but would report it to the Board when the item is brought for consideration.**
 - **Motion to recommend to the Board awarding the construction contract for the Authority's Phase 1B Segment B Pipeline Project to Garney Construction utilizing steel material was made by Mr. Earp, seconded by Mr. Ramos and approved on a 4-0 vote.**
- F.4 Possible recommendation to the Board to authorize a Work Order with K Friese & Associates, Inc. for construction administration services on the Authority's Phase 1B Segment B Pipeline Project.
- **Motion to recommend to the Board authorizing a Work Order to K Friese for construction administration services on the Segment B Pipeline project was made by Mr. Neffendorf, seconded by Mr. Ramos and approved on a 4-0 vote.**

- F.5 Discussion and possible recommendation to the Board to approve a Work Order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program.
- **Mr. Earp noted that he is concerned with the overall cost of the Construction Management & Inspection authorization. He noted that it is not his area of expertise, but he feels the overall costs are very high, especially for inspection.**
 - **Mr. Ramos noted that independent inspection has been discussed as being necessary for the Program from the beginning and that it is costly, but it can save problems down the line.**
 - **Mr. Moore noted that Pape-Dawson was selected for the work based on qualifications and price. He also noted that if the Committee wanted to take more time to review the work order, that he would need the Board to extend the current work order so that inspection activities can continue after January 1, 2022 for the construction work that is ongoing.**
 - **Mr. Earp noted that he would support extension of the current work order.**
 - **Mr. Earp appointed a sub-committee of Humberto Ramos, Paul Kite and Blake Neffendorf to dig into the scope and see if reductions or other changes are warranted and to report back. The Committee made add others into the discussion as needed.**
- F.6 Discussion and possible direction to Staff regarding the criteria and scoring to be utilized in the Authority's Request for Qualifications for Operation and Maintenance of the Carrizo Water Supply Project.
- **Mr. Moore discussed the proposed criteria and scoring to be utilized for the Operations and Maintenance of the Carrizo Water Supply Project.**
 - **Staff was directed to revise the scoring to the following: Approach – 45 points; Qualifications – 35 points and Price – 20 points.**
- F.7 Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
- **Mr. Moore provided an update.**
 - **No Action.**

G. EXECUTIVE DIRECTOR REPORT

- **No Action.**

H. COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS

- **No Items.**

I. EXECUTIVE SESSION

I.1 Executive Session on the following matters:

- A. Water supply partnership options
- B. Groundwater leases
- C. Acquisition of real property for water supply project purposes
- **No Executive Session.**

I.2 Action from Executive Session on the following matters:

- A. Water supply partnership options
- B. Groundwater leases
- C. Acquisition of real property for water supply project purposes
- **No Action.**

J. ADJOURNMENT

- **Meeting was adjourned at 4:09 p.m. by Mr. Earp.**

APPROVED: _____, 2022

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- F.1** Update and possible direction to Staff regarding construction of the Authority's Phase 1B program. ~ *Chris Noe, P.E., Pape-Dawson Engineers*
-

Background/Information

Chris Noe with Pape Dawson will update the Committee on recent construction activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Construction Update – January 12, 2022

Technical Committee Decisions Needed:

- None.



PHASE 1B CONSTRUCTION UPDATE

TECHNICAL COMMITTEE MEETING

CMI Progress

January 12, 2021

Water Resources | Transportation | Land Development | Surveying | Environmental



ONGOING PROGRESS



Procurement / Construction Status

Water Treatment Plant & Raw Water Infrastructure

- All-weather temporary access road inside plant completed
- Flow EQ Basin walls are being formed and placed
- Recycle Pump Station footing forms removed, steel for reinforcing walls is being tied
- Rapid Mix Basin excavated, subgrade scarified and compacted, density tests taken prior to the placement of the concrete mud slab
- Additional excavation occurred at the Clearwell due to the response to RF10028, subgrade scarified and compacted, density and moisture tests taken prior to placement of select fill backfill
- Excavation for the Filter Complex continued this period, excess spoils moved to the designated disposal area
- Alterman tied up duct bank conduit and reinforcing steel cages

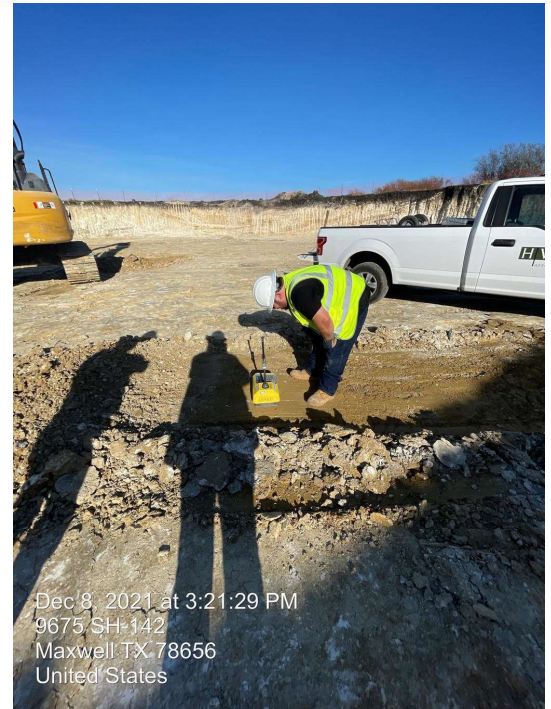


ONGOING PROGRESS

Procurement / Construction Status

Booster Pump Station

- MWH continues mobilization
- Office trailers were delivered and setup on site
- Temporary water and sanitary sewer services were connected
- Crushed limestone base was placed for the staging and laydown yard
- Crushed limestone base access road constructed to STA 10+40
- Ground storage tank was excavated, subgrade scarified and compacted, tested to verify compliance with specifications
- Site clearing, grubbing, and majority of tree removal completed
- Detention pond excavated to grade



ONGOING PROGRESS

Procurement / Construction Status

Segment A

- Obtained required Contract documents from Garney
- Purchased locks for access gates
- Received approval of landowner notification plan
- Conducted first construction progress meeting

Segment B

- Issued Notice of Award to Garney



OVERSIGHT RECAP

PROJECT	RFIs		Submittals		Test Reports	
	This Period	To Date	This Period	To Date	This Period	To Date
WTP/RWI	3	32	19	129	6	39
BPS	2	5	8	22	4	22
Seg A	3		6			

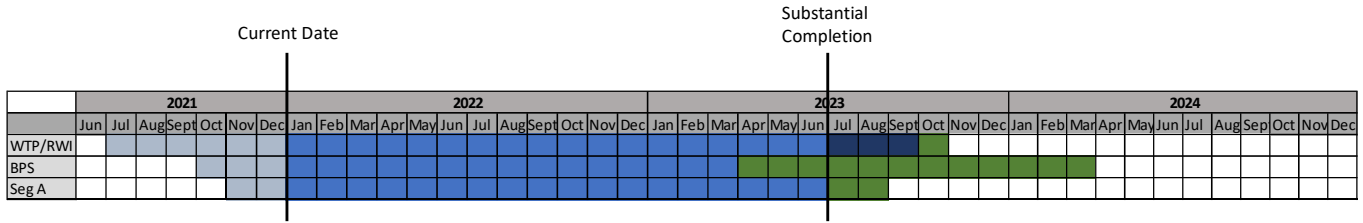
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CONTRACT VALUES

PROJECT	CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,599,281.00	\$4,154,268.50	\$50,445,012.50	7.61%
BPS	\$19,759,331.00	\$1,209,652.00	\$18,549,679.00	6.12%
EST	\$0.00	\$0.00	\$0.00	0.00%
Seg A	\$49,471,384.71	\$0.00	\$49,471,384.71	0.00%
Seg B	\$37,629,104.42	\$0.00	\$37,629,104.42	0.00%
Seg D	\$0.00	\$0.00	\$0.00	0.00%
Seg C	\$0.00	\$0.00	\$0.00	0.00%
Seg E	\$0.00	\$0.00	\$0.00	0.00%

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SCHEDULE DURATIONS



Project	Contract Status	Notice to Proceed	Substantial Completion	Sub Comp Status	Final Completion
WTP/RWI	Awarded	7/16/2021	9/3/2023	Behind 3 mo	11/2/2023
BPS	Awarded	10/25/2021	3/19/2023	On Time	3/18/2024
Seg A	Awarded	11/16/2021	6/9/2023	On Time	8/8/2023

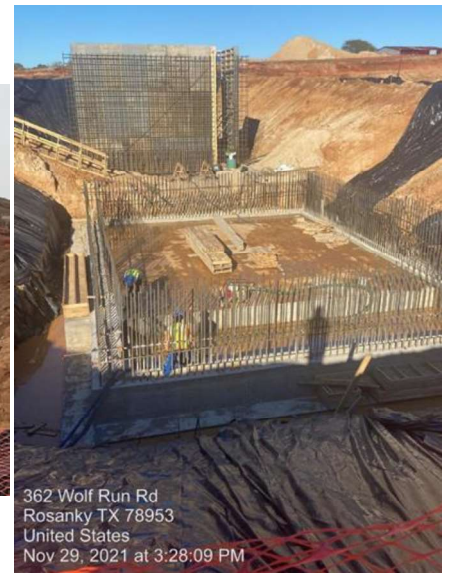
PROGRESS PHOTOS



WTP/RWI – Rapid Mix Basin mud slab



WTP/RWI – Flow EQ Basin wall



WTP/RWI – Recycle Pump Station foundation

PROGRESS PHOTOS



362 Wolf Run Rd
Rosanky TX 78953
United States
Dec 17, 2021 at 12:59:10 PM

WTP/RWI – Clearwell backfill



WTP/RWI – Filter Complex excavation



BPS – Office Trailer, staging, laydown area

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PROGRESS PHOTOS



Dec 14, 2021 at 10:11:02 AM
9675 SH-142
Maxwell TX 78656
United States

BPS - Access Road construction



Dec 7, 2021 at 1:00:02 PM
9675 SH-142
Maxwell TX 78656
United States

BPS – Ground Storage Tank excavation



Dec 21, 2021 at 4:03:09 PM
9675 SH-142
Maxwell TX 78656
United States

BPS – Detention Pond excavation

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QUESTIONS?

REGULAR MEETING
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- F.2** Update and possible direction to Staff regarding the Authority's Phase 1B program.
~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on their recent activities associated with the Phase 1B program.

Attachment(s)

- Phase 1B Program Update – January 12, 2022
- Kimley-Horn Monthly Summary of Activities for December 2021

Technical Committee Decisions Needed:

- None.



Phase 1B Program Update

Technical Committee Meeting
January 12, 2022



ALLIANCE WATER

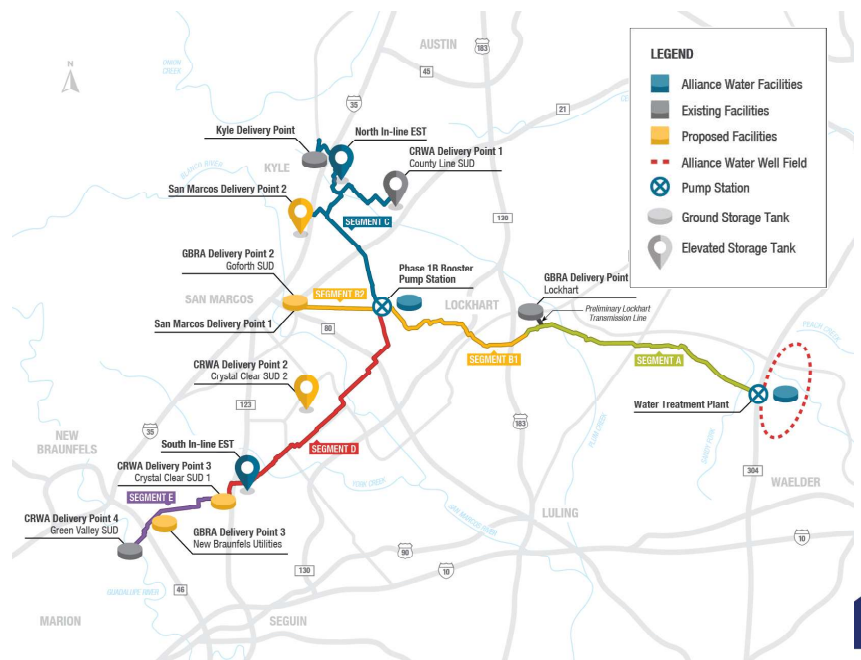
Kimley»Horn
Expect More. Experience Better.

PRESENTED BY

Ongoing Progress

► Design Milestone Status

- Design Submittals
 - Segment E – 100% submittals anticipated in January
 - Segment C – 100% submittals anticipated in February
- TWDB Reviews
 - Segment A
 - Land Acquisition Release in Preparation
 - Segment B
 - Final Design, Procurement Funding Release in Preparation
 - Construction Approval Submittal in Preparation
- Pipeline Segment B
 - Anticipated NTP to Contractor: Late January



Pipeline Easement Acquisition Status

Pipeline Segment	Number of Parcels	STATUS						
		(A) Appraisal/Offer in Development	(B) Negotiation (Initial Offer)	(C) Negotiation (Final Offer)	(D) = (A+B+C) Appraisal / Negotiation	(E) Condemnation in Process	(F) = (D+E) Possession Still Needed	(G) Purchase Agreement Signed / Possession Obtained
A	39	0	0	0	0	0	0	39
B	52	0	0	0	0	4	4	48
D	57	0	0	3	3	24	27	30
C	74	1	29	4	34	27	58	16
E	37	0	10	0	10	22	32	5
Well Field	20	13	0	1	14	0	14	6
Total	279						135	144



COST UPDATES BASED ON DECEMBER MILESTONE SUBMITTALS

		ORIGINAL (FEB. 2019)	REVISED	
Construction Package		ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
Submittal (%)	Combined Program Infrastructure			
Const.	Water Treatment Plant	\$ 25,200,000	\$ 29,500,000	\$ 4,300,000
Const.	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 13,400,000	\$ 1,300,000
60	Inline EST (South)	\$ 3,600,000	\$ 4,100,000	\$ 500,000
Const.	Pipeline Segment A	\$ 27,200,000	\$ 28,600,000	\$ 1,400,000
Const.	Pipeline Segment B	\$ 27,100,000	\$ 33,800,000	\$ 6,700,000
100	Pipeline Segment D	\$ 36,300,000	\$ 43,700,000	\$ 7,400,000
90	Pipeline Segment E	\$ 9,500,000	\$ 10,900,000	\$ 1,400,000
	Subtotal	\$141,000,000	\$164,000,000	\$ 23,000,000
	ARWA-Only Infrastructure			
Const.	Well Drilling	\$ 3,800,000	\$ 3,300,000	(\$ 500,000)
Const.	Raw Water Infrastructure	\$ 7,000,000	\$ 10,600,000	\$ 3,600,000
Const.	ARWA Booster Pump Station & Delivery Points	\$ 7,700,000	\$ 4,800,000	(\$ 2,900,000)
30	Inline EST (North)	\$ 5,400,000	\$ 6,500,000	\$ 1,100,000
90	Pipeline Segment C	\$ 64,500,000	\$ 68,600,000	\$ 4,100,000
90	Pipeline Segment E (ARWA-Only)	\$ 6,700,000	\$ 12,600,000	\$ 5,900,000
No Design	Administration and Operations Building	\$ 4,300,000	\$ 4,200,000	(\$ 100,000)
	Subtotal	\$ 99,400,000	\$110,600,000	\$ 11,200,000
	Total	\$240,400,000	\$274,600,000	\$34,200,000

JANUARY 2021 UPDATE

NO CHANGE FROM
DECEMBER UPDATE

Future Updates

▶ Water Quality

- Ongoing Coordination with TCEQ
- Update in February Meeting

▶ Schedule & Budget

- Detailed Updates in February Meeting



Questions?

January 07, 2022

Project Monthly Summary

December 2021 Tasks Performed:

- Task 2 – Stakeholder Coordination
 - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
 - Continued weekly task coordination with Alliance Water.
 - Prepared and presented Technical Committee Meeting Update.
 - Prepared and presented the Board Meeting Update.
 - Prepared and presented the Project Advisory Committee Meeting Update.
 - Prepared for and held Monthly Status Meeting with Alliance Water.

- Task 3 – Budgeting
 - Prepared and presented the monthly Budget Update for the Technical Committee and Board meetings.
 - Continued updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Revised Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
 - Coordinated with Program team to integrate each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.

- Task 6 – Data Management
 - Coordinated with Ardurra to transfer Phase 1A GIS WebMap Data and began incorporating the Phase 1A Data within the Phase 1B WebMap Application.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Continued coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segments C and E.
 - Performed coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continued coordination between Program Environmental Consultant and Design Engineers.
- Reviewed Program Environmental invoices, schedule, and risk log.

- Task 8 – Land Acquisition Management
 - Coordinated the appraisal process for Segments C, D, E, and W parcels.
 - Coordinated with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
 - Performed weekly QC of parcel files in SharePoint, provided comments to Land Acquisition team.
 - Weekly coordination meeting with land agents to discuss status of rights-of-entry and to provide Program clarification on any questions/requests that have come from landowners.
 - Reviewed Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
 - Continued field work coordination to notify landowners of upcoming field work by consultants.

- Task 9 – Texas Water Development Board Management
 - Continued coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

- Task 10 – Design Standards
 - Coordinated with Pipeline Manufacturers to review potential cost savings measures to consider.
 - Reviewed the Pipeline Construction Standards considering Contractor recommendations for cost savings.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continued coordination with Design Consultant for procurement phase services.
 - Segment C
 - Continued coordination with Design Consultant for final design.
 - Continued coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
 - Segment D

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Continued coordination with Design Consultant for final design and preparation for procurement.
 - Segment E
 - Continued coordination with Design Consultant for final design.
 - Wellfield:
 - Continued coordination regarding the completion of construction for Wells 6-9.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continued coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Coordinated with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Continued coordination with Design Consultant for 90% design development.
 - Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield, booster pump station).
 - Review invoices, schedules, and risk logs for consultants.
- Task 13 – Electrical Power Planning
 - Continued coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continued coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 – Permit Coordination/Tracking
 - Continued Permit coordination with Pipeline Consultants.
 - Continued coordination with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continued coordination with Caldwell, Guadalupe, and Hays Counties regarding on going permit reviews.
 - Continued General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - Continued coordinated with Segment A and BPS Design Consultants during the construction phase.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Coordination with Segment B during procurement phase.
- On-going coordination with WTP and RWI Design Consultants during the construction phase.

January 2022 Projection:

- Task 2 – Stakeholder Coordination
 - Coordination and/or meetings with entities including: Caldwell County, Guadalupe County, GVEC, Bluebonnet Electric Coop, TxDOT, TCEQ, and TWDB.
 - Continue weekly task coordination with Alliance Water.
 - Prepare and present the Technical Committee Update.
 - Prepare and present Project Advisory Committee Meeting Update.
 - Prepare and present Board Meeting Update.
 - Prepare for and hold Monthly Status Meeting with Alliance Water.

- Task 3 – Budgeting
 - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Revise the Project Deliverable Schedule based on the feedback received from ARWA and Design Consultants.
 - Coordinate with Program team to integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.

- Task 6 – Data Management
 - Finalize the incorporation of the Phase 1A Data within the Phase 1B WebMap Application.
 - Ongoing maintenance of Microsoft SharePoint Online program.
 - Continued updating of web-based GIS for easement acquisition process and alignment changes.

- Task 7 – Environmental Management
 - Review the Segment C Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
 - Continue coordination with Program Environmental Consultant concerning the comment responses to the United States Army Corps of Engineers.
 - Continued coordination with the Program Environmental Consultant regarding additional hazmat studies for Segment C and E.
 - Perform coordination between Program Environmental Consultant and Land Acquisition Consultant to clarify environmental field work to be done on properties as part of right-of-entry process.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Monthly progress meeting and ongoing coordination with Program Environmental Consultant.
- Continue coordination between Program Environmental Consultant and Design Engineers.
- Review Program Environmental invoices, schedule, and risk log.

- Task 8 – Land Acquisition Management
 - Coordinate the appraisal process for Segment C, D, E, and W parcels.
 - Coordinate with Program Survey Consultant, Program Environmental Consultant, and Land Acquisition team to address questions that arise as part of the field work coordination process.
 - Perform weekly QC of parcel files in SharePoint, provide comments to Land Acquisition team.
 - Weekly coordination meeting with land agents to discuss status of rights-of-entry and to provide Program clarification on any questions/requests that have come from landowners.
 - Review Program Land Acquisition team, Program Appraiser, and Program Survey invoices.
 - Continue field work coordination to notify landowners of upcoming field work by consultants.

- Task 9 – Texas Water Development Board Management
 - Continue coordination with TWDB Staff to track all EFRs, environmental reports, and bid documents currently under review.

- Task 10 – Design Standards
 - Review and update the Construction Standards for ARWA’s review respective of the Pipeline Manufacturers and Contractor recommendations for cost savings.

- Task 11 – Engineering Design Management
 - Pipelines:
 - Segment A
 - Continue coordination with Design Consultant for construction phase services.
 - Segment B
 - Continue coordination with Design Consultant for procurement phase services.
 - Segment C
 - Continue coordination with Design Consultant for final design.
 - Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
 - Segment D

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- Continue coordination with Design Consultant for final design and preparation for procurement.
 - Segment E
 - Continue coordination with Design Consultant for final design.
 - Wellfield:
 - Continue coordination regarding the completion of construction of Wells 6-9.
 - Raw Water Infrastructure:
 - Continued coordination with Design Consultant for construction phase services.
 - Water Treatment Plant:
 - Continue coordination with Design Consultant concerning Hydraulics/Surge development.
 - Continued coordination with Design Consultant for construction phase services.
 - Booster Pump Station:
 - Coordination with Design Consultant for construction phase services.
 - Inline Elevated Storage Tanks:
 - Coordination with Design Consultant for 90% design development.
 - Other:
 - Monthly progress meetings with all Design Consultants (pipelines, water treatment plant, raw water infrastructure, wellfield).
 - Review invoices, schedules, and risk logs for consultants.
- Task 13 – Electrical Power Planning
 - Continue coordination with ARWA and GVEC to develop agreement language for service to the well field.
 - Continue coordination with GVEC regarding electric service to the WTP and wellfield.
- Task 14 – Permit Coordination/Tracking
 - Continue Permit coordination with Pipeline consultants
 - Coordinate with Hays County concerning the Site Development Permit.
 - General Coordination with TxDOT.
 - Coordinate with Caldwell, Guadalupe, and Hays County TxDOT offices concerning roadway crossings.
 - Continue General Coordination with GVEC and BBEC.
 - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
 - On-going coordination with Segment A and BPS Design Consultants during the construction phase.
 - Coordination with Segment B during procurement phase and the construction phase.

Alliance Water – Phase 1B Infrastructure – Owner’s Representative

- On-going coordination with WTP and RWI Design Consultants during the construction phase.
- Task 16 – Other Services
 - Finalize and submit the City of San Marcos Watershed Protection Plan for the Booster Pump Station Plat.

Scope Elements Added/Removed:

None at this time.

Outstanding Issues/Concerns:

None at this time.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- F.3** Possible recommendation to the Board to approve an Interlocal Cooperation Agreement with the City of San Marcos for San Marcos Regional Water Treatment Plant and Blanco Vista Storage Tank Improvements. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Alliance Water and the City of San Marcos have been working together on two projects associated with the delivery of the new Carrizo water. The City and GBRA decided to expand the raw water storage capacity at the San Marcos Regional Water Treatment Plant (SMRWTP) and to make some improvements at the high service pump stations at the plant. Alliance Water and the City agreed that having a pipeline connecting the Authority's Segment B pipeline to the high service pump station would be advantageous to Alliance Water as it would allow for the SMRWTP to provide water for commissioning of the Phase 1B facilities and could also serve as an emergency interconnect should it be necessary in the future. The basic improvements are shown on the next page in red.

The second project is at the City of San Marcos's second delivery point north of the Blanco Vista subdivision. The City is planning an elevated storage tank at this location. Both parties agree that because Alliance Water is also going to construct two composite elevated storage tanks that the economies of scale could be improved by bidding all three projects together with San Marcos for the Blanco Vista tank.

The City of San Marcos has prepared the attached Interlocal Cooperation Agreement to describe how the costs for the two projects will be split between the two entities. For the SMRWTP project, Alliance Water will be responsible for its share of construction, \$10,000 in design fees, plus its share of construction administration services for the SMRWTP project. San Marcos will be responsible for the construction costs of the Blanco Vista EST along with construction management and inspection charges not to exceed \$110,000 (San Marcos is paying for the design directly).

The City has already bid the SMRWTP project with Archer-Western identified as the low bidder with a total bid of \$12.95 million. ARWA's share of the construction cost is \$1.54 million inclusive of 10% increase for possible change orders.

The attached agreement has been reviewed by legal and coordinated with the City of San Marcos Staff. They intend to take the agreement and award of the SMRWTP project to the San Marcos council in January. Staff is seeking the Committee's recommendation to the Board to approve the agreement.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028



Technical Committee Decision Needed:

- Possible recommendation to the Board to recommend approval of the Interlocal Agreement with the City of San Marcos for joint construction of the San Marcos Water Treatment Plant Improvements and the Blanco Vista Elevated Storage Tank.

**INTERLOCAL COOPERATION AGREEMENT
BETWEEN
THE CITY OF SAN MARCOS AND THE
ALLIANCE REGIONAL WATER AUTHORITY**

This Interlocal Cooperation Agreement (the “Agreement”) is made and effective as of _____ (the “Effective Date”) by and between the City of San Marcos, Texas (the “City”) and the Alliance Regional Water Authority (“ARWA”). The City and ARWA are each referred to hereinafter as a “Party” and collectively as the “Parties.”

**ARTICLE I
RECITALS**

1.01. The City is a member entity of the ARWA and is contracted to receive Carrizo Aquifer water from the ARWA for the City’s future water supply.

1.02. The ARWA holds groundwater leases and permits to produce water from the Carrizo Aquifer, which ARWA treats and delivers to member entity delivery points including the San Marcos Regional Water Treatment Plant (“SMRWTP”). ARWA will also deliver water to a proposed new elevated water storage tank in the Blanco Vista Subdivision off of Yarrington Road (“BVST”).

1.03. The Parties recognize that certain improvements for ARWA are needed at the SMRWTP, including pumping equipment at the High Service Pump station to supply the ARWA line for testing and commissioning services and a long-term emergency interconnect.

1.04. The Parties also recognize that including these improvements within the design and construction contract of improvements by the City at the SWRTP is beneficial to both parties.

1.05. Similarly, there are water storage tank improvements that will be constructed by ARWA and the City can benefit by including the City’s BVST improvements in the ARWA construction project.

1.06. The purpose of this Agreement is to outline the responsibilities of the Parties for the design and construction of the needed SMRWTP improvements and the construction of the BVST and the manner in which the respective costs will be determined and allocated.

1.07. The Texas Interlocal Cooperation Act, Section 791.001, *et seq.* of the Texas Government Code authorizes the Parties to contract with each other to perform governmental functions and services. This Agreement concerns the performance of governmental functions and services.

1.08. For the reasons stated in these Recitals and the mutual benefits and obligations herein, the Parties wish to enter into this Agreement.

ARTICLE II OBLIGATIONS OF THE PARTIES

2.01. **Coordination and Scheduling.** Upon execution of this Agreement by both Parties, each Party shall designate one or more representatives responsible for coordinating the various activities under this Agreement, including but not limited to, obtaining approval of construction plans and specifications, schedules, cost estimates, pay applications, inspections, contingency authorizations and change orders. To the extent practicable, agreed upon procedures and processes shall be reduced to writing by such designated representatives, whether on paper or by email. In the absence of any clear designation of a representative, the City Manager of the City and the Executive Director of ARWA, and their designees, shall be the designated representatives, as applicable.

2.02. **Design of SMRWTP.** The City has awarded a professional engineering contract to Plummer Associates, Inc. (the “Engineer”) for design and construction phase services for improvements at the SMRWTP. The final plans, specifications and cost estimates developed by the Engineer include certain improvements for the benefit of ARWA. ~~The final plans,~~

~~specifications and cost estimates for such ARWA improvements at the SMRTP will be subject to the approval of ARWA. Following such ARWA approval, these plans and specifications will be included in documents for bidding with the City's project.~~

2.03. Design of BVST. The Engineer is also responsible for the design of the City's BVST project to be included with the construction of the ARWA water storage tank project. The plans and specifications for the BVST will be prepared in coordination with the ARWA tank bidding package and ARWA agrees to include these in the bid documents for its project. The final plans and specifications for the BSVT will be subject to the City's approval.

2.04. Construction. Upon agreement between the authorized representatives of the Parties, following approval by the Parties of the specifications and cost estimates under section ~~2.02 and 2.03, the City will solicit bids for construction of the SMRWTP improvements and~~ ARWA will solicit bids for construction of the BVST, ~~each under~~ in accordance with applicable bidding procedures. The final bid price for any contract proposed to be awarded shall be subject to written ~~approved approval~~ by both Parties, after which time ~~each Party~~ ARWA shall initiate the process for award of the construction contract as applicable.

2.05. Cost Participation by ARWA. Subject to subsection (a), ARWA agrees to participate in the amount of \$10,000 for its share in the costs for professional ~~of~~ engineering design services provided by the Engineer for the SMRWTP and will pay for its share of the construction phase services performed by the Engineer for the SMRWTP. In conjunction with the development of construction plans and specifications for the SMRWTP, bid line items will be identified between the City, GBRA and ARWA in substantial conformance with Exhibit "A," attached hereto and made a part hereof. ARWA will be responsible for its share of the construction costs plus an additional 10% for potential change orders.

a. **Adjustments in Cost.** The actual amount payable by ARWA under this section may be adjusted based upon actual authorized costs charged by the Engineer or the actual construction contract costs for the ARWA; line items ~~contractor for construction~~ pursuant to the terms of the construction contract awarded by the City, ~~applying the same methodology described above.~~

2.06. ARWA Payment. ARWA represents that it has sufficient funding for its share of the SMRWTP improvements. ARWA will pay any amounts due within 30 days after receipt of an invoice from the City for costs incurred by the City for professional services provided by the Engineer, ~~together with invoices from the Engineer to the City for construction phase services performed.~~ ~~ARWA represents that it has sufficient funding for its share of the SMRWTP improvements.~~ ARWA will deposit with the City its proportionate share of the construction contract amount, including the additional 10% for potential change orders, plus “X”% for change orders, such that the City's financial obligation is fully funded within 30 days on the date of the contract award. ARWA will be responsible for payment of any construction costs above the deposited amount, if any are required, based upon actual costs within 30 days after receipt of an invoice from the City. Any deposited amount not used based upon actual in excess of final construction costs will be refunded to ARWA within 30 days of project close-out.

2.07. Cost Participation by City. Subject to subsection (a), the City agrees to pay for the construction cost of the BVST in the estimated amount of \$ as well as the construction management and inspection costs that are not to exceed \$110,000. ARWA agrees to structure the bid items for the BVST project such that the City’s share of the construction contract is clear to all Parties.

a. **Adjustments in Cost.** The actual amount payable by City under this section

may be adjusted based upon actual ~~bid price~~ construction costs for the City's bid items under the construction contract awarded by ARWA, provided that such amount may not exceed 10 percent of the above cost estimate without approval of the San Marcos City Council.

2.08 City Payment. The City represents that it has sufficient funding for such BVST improvements. The City will pay any amounts due within 30 days after receipt of an invoice from ARWA for costs incurred for the construction management and inspection services. The City will deposit with ARWA its proportionate share of the construction contract amount, including an additional 10% for potential change orders, such that ARWA's financial obligation under the contract is fully funded within 30 days of ~~on~~ the date of contract award. The City will be responsible for payment of any construction costs above the deposited amount, if any are required, based upon actual costs within 30 days after receipt of an invoice from ARWA. Any deposited amount not used based upon actual in excess of final construction costs will be refunded to the City within 30 days of project close-out.

2.09. Schedule. The Parties will make reasonable efforts to coordinate and complete the construction of the improvements in accordance with the schedule set forth in Exhibit "B," attached hereto and made a part hereof.

ARTICLE III AMENDMENTS

Any amendments to this Agreement shall be in writing and executed by a duly authorized representative of each of the Parties.

ARTICLE IV TERM OF AGREEMENT

This Agreement shall be effective on the date first shown above and shall terminate upon the completion of completion of construction of both the SMRWTP improvements and BVST, together with all payments contemplated herein. Either Party may, otherwise, terminate this Agreement by providing at least 30 days' notice to the other before construction of either project contemplated herein is initiated. In such event, each Party shall be responsible for the payment of any costs for which it is responsible under this Agreement incurred through the effective date of termination.

ARTICLE V NOTICES

All notices or other communications which are required or permitted hereunder shall be in writing and shall be deemed properly delivered if sent by email as well as by U.S. Mail, return receipt requested or by, a nationally recognized overnight courier service, ~~or by email~~ to the following:

If to the City:

City of San Marcos
630 East Hopkins Street
San Marcos, Texas 78666
Attn: City Manager
citymanagerinfo@sanmarcostx.gov

If to ARWA:

Alliance Regional Water Authority
630 East Hopkins Street
San Marcos, Texas 78666
Attn: Graham Moore, P.E., Executive Director
gmoore@alliancewater.org

Either Party may change the address for notice by providing written notice of such change to the other Party.

ARTICLE VI REPORTS

~~The City will provide to ARWA periodic written reports documenting the progress of the services of the Engineer.~~ Each Party will, upon request of the other, promptly provide reports regarding the status of construction of the respective projects under this Agreement.

**ARTICLE VII
GENERAL**

7.01. All payments under this Agreement shall be made from current revenues or other funding sources available to the paying Party.

7.02. This Agreement constitutes the entire agreement between the Parties, and there are no representations, warranties, agreements or commitments between the Parties hereto except as set forth herein. No amendments to this Agreement shall be binding on the Parties hereto unless in writing and signed by both Parties;

7.03. No delay or failure by either Party hereto to exercise any right, power or remedy, under this Agreement, and no partial or single exercise of that right, power or remedy, shall constitute a waiver of that or any other right, power or remedy unless otherwise expressly provided herein. No waiver shall be deemed to have been made unless it is in writing and signed by the waiving Party.

7.04. This Agreement is deemed to have been made in and to be performable in the Hays County, Texas, and shall be construed in accordance with and governed by the laws of the State of Texas.

7.05. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

7.06. The provisions of this Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors and assigns; provided, however, that neither Party may assign any of their respective rights nor delegate any of their respective duties hereunder without the other Party's prior written consent.

7.07. The invalidity of any provision or provisions of this Agreement shall not affect any other provision of this Agreement, which shall remain in full force and effect, nor shall the

invalidity of a portion of any provision of this Agreement affect the balance of such provision.

7.08. The captions of the various sections of this Agreement are for descriptive purposes only and shall not alter or affect the terms and conditions of this Agreement.

7.09. This Agreement or any portion thereof shall not be interpreted by a court of law to the detriment of a Party based solely upon that Party's authorship of the Agreement or any portion thereof.

7.10. The Parties each certify that it has the legal authority to enter into this Agreement.

7.11. Nothing in this Agreement will be construed to constitute either Party as a partner, employee or agent of the other Party, nor will either Party have the authority to bind the other in any respect. Each Party will remain an independent contractor responsible for its own actions except as otherwise specifically provided herein.

7.12. Before any Party may file suit to resolve any dispute under this Agreement, the Parties, after attempts at negotiation are unsuccessful, shall participate in mediation using a mutually agreed third-party mediator to resolve the dispute. The costs of mediation shall be shared equally between the Parties unless otherwise provided in a mediated settlement agreement.

[SIGNATURES ON NEXT PAGE]

|

EXECUTED in duplicate counterparts, both having equal force and effect, as of the Effective Date.

CITY:

ARWA:

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

DRAFT

EXHIBIT A

00 31 00 Bid Schedule							
Project: Surface Water Treatment Plant Improvements for ARWA Water							
NOTES:							
* Legibly print or write unit and lump sum prices for each item in this bid):							
** All Unit Quantities shall include all labor, tools, auxiliary equipment and testing necessary for installation, per Specifications							
*** For cost responsibility: The City of San Marcos (1), Guadalupe-Blanco River Authority (2), Alliance Regional Water Authority (3), for shared costs between San Marcos and GBRA based on ARWA peak flow allocations (4), and costs shared between all project participants (5).							
BASE BID							
Item No.	Specification Reference	Unit Description	Unit	Est. Quantity	Unit Price	Unit Total	***
1.0 Site Work							
1.1	700S	All Mobilization (Incl. equipment) Costs	LS		\$	\$	5
1.2	102S	Clearing and Grubbing	AC		\$	\$	5
1.2	111S	Excavation and Grading	CY		\$	\$	4
1.3	609S	Landscape, Irrigation, Seeding, Hydromulch	SY		\$	\$	5
1.4	236S	Proof Rolling	HR		\$	\$	4
1.5	602S	Construction Erosion Control	SY		\$	\$	5
1.6	642S	Silt Fences	LF		\$	\$	5
1.7	201S	Subgrade Preparation	CY		\$	\$	4
1.8	401S	Structural Excavation and Backfill	CY		\$	\$	4
1.9	402S	Controlled Low Strength Material	CY		\$	\$	4
1.10	509S	Trenching (inc. safety and stability all depths)	LF		\$	\$	5
1.11	01001 (G-Sheets)	Staging Area Installation and Removal	LS		\$	\$	4
1.12	430S	Concrete Curb	LF		\$	\$	4
1.13	410S, 03 00 05	Concrete (Slabs and Supports)	CY		\$	\$	4
1.14	406S	Reinforcing Steel	LBS		\$	\$	4
1.15	340S	Asphaltic Concrete	CY		\$	\$	4
1.16	432S	Concrete Sidewalks	SF		\$	\$	4
1.17		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$	\$	4
Section 1 BASE BID SUB-TOTAL \$							
2.0 Yard Piping							
2.1	510S	30-Inch Steel Pipe (Incl. fittings & supports)	LF		\$	\$	4
2.2	510S	30-Inch Ductile Iron Pipe (Incl. fittings & supports)	LF		\$	\$	4
2.3	722S, 09 96 00	Protective Coatings	LS		\$	\$	4
2.4	40 05 64	30-Inch Butterfly Valves	EA		\$	\$	4
2.5	40 05 64	24-Inch Butterfly Valves	EA		\$	\$	4
2.6	511S	30-Inch Gate Valves	EA		\$	\$	4
2.7	511S	24-Inch Gate Valves	EA		\$	\$	4
2.8	40 05 57.23	Gate Valve Actuators (Rotork)	EA		\$	\$	4
2.9	M-Sheets	Gate Valve Operators	LS		\$	\$	4
2.10	510S	15-Inch HDPE	LF		\$	\$	4

Item No.	Specification Reference	Unit Description	Unit	Est. Quantity	Unit Price	Unit Total	***
2.11	510S	6-Inch PVC	LF		\$	\$	4
2.12	C-102, M-901	Valve Vaults at CW#2	LS		\$	\$	4
2.13	M-106, M-901	Meter Vaults	LS		\$	\$	4
2.14	40 71 00	Mag Flow Meters	EA		\$	\$	4
2.15	40 72 00	Level Instrumentation	EA		\$	\$	4
2.16	26 05 19	Electrical and Control Wiring	LF		\$	\$	4
2.17	M-900	Splash Pad and Stormwater Box	LS		\$	\$	4
2.18		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$	\$	4
Section 2 BASE BID SUB-TOTAL \$							
3.0 Ground Storage Tank							
3.1	43 41 63	Precast Wire Wound Prestressed Tank (inc. any other foundation and civil works for installation)	LS		\$	\$	4
3.2	40 72 00	Level Instrumentation	EA		\$	\$	4
3.3	26 05 19	Electrical and Control Wiring	LF		\$	\$	4
3.4		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$	\$	4
Section 3 BASE BID SUB-TOTAL \$							
4.0 Pumping Station Expansion (San Marcos)							
4.1	43 23 40	Vertical Turbine Pump (incl. installation & testing)	EA		\$	\$	1
4.2	511S	Air Release Valves	EA		\$	\$	1
4.3	510S	16-Inch Steel Pipe (incl. fittings and supports)	LF		\$	\$	1
4.4	40 05 64	16-Inch Butterfly Valves	EA		\$	\$	1
4.5	40 05 57.53	Pneumatic Valve Actuator System	LS		\$	\$	1
4.6	40 73 00	Pressure Instrumentation	LS		\$	\$	1
4.7	511S	1-Inch and 2-Inch Ball Valves	EA		\$	\$	1
4.8	722S, 09 96 00	Protective Coatings	LS		\$	\$	1
4.9	410S	Equipment Pad	SF		\$	\$	1
4.10	40 05 23	HPA Tubing Stainless Steel (incl. fittings and support)	LF		\$	\$	1
4.11	26 29 13	Soft Starter (500 HP)	EA		\$	\$	1
4.12	26 05 19	Electrical Equipment and Instrumentation Wiring	LS		\$	\$	1
4.13		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$	\$	1
Section 4 BASE BID SUB-TOTAL \$							
5.0 Pumping Station Improvements (GBRA)							
5.1	510S	12-Inch Ductile Iron Pipe (incl. fittings and supports)	LF		\$	\$	2
5.2	510S	16-Inch Steel Pipe (incl. fittings and supports)	LF		\$	\$	2
5.3	510S	30-Inch Steel Pipe (incl. fittings and supports)	LF		\$	\$	2
5.4	40 05 64	12-Inch Butterfly Valves	LF		\$	\$	2
5.5	40 05 64	16-Inch Butterfly Valves	EA		\$	\$	2

Item No.	Specification Reference	Unit Description	Unit	Est. Quantity	Unit Price	Unit Total	***
5.6	40 05 57.53	Pneumatic Valve Actuator System	LS		\$	\$	2
5.7	40 05 64	16-Inch Butterfly Valves - High Performance	EA		\$	\$	2
5.8	511S	2-Inch Air Release Valves	EA		\$	\$	2
5.9	511S	4-Inch Air Release valves	EA		\$	\$	2
5.10	09 96 00	Protective Coatings	SF		\$	\$	2
5.11	43 23 40	Vertical Turbine Pump (incl. installation & testing)	EA		\$	\$	2
5.12	26 29 23	Variable Frequency Drives	EA		\$	\$	2
5.13	26 05 19	Electrical Equipment and Instrumentation Wiring	LS		\$	\$	2
5.14	111S, 201S, 401S, 410S, and 03 00 05	Surge Tank Site Prep and Structural	LS		\$	\$	2
5.15	33 16 33	Hydropneumatic Tank System	EA		\$	\$	2
5.16	34 16 33	Surge Tank Electrical Controls	LS		\$	\$	2
5.17	111S, 201S, 401S, 410S, and 03 00 05	Electrical Building Site Prep and Structural	LS		\$	\$	2
5.18	Multiple	Electrical Building Masonry, Metals, and Misc	LS		\$	\$	2
5.19	H-Sheets	Demolition of Existing HVAC System	LS		\$	\$	2
5.2	H-Sheets	Installation of New HVAC System	LS		\$	\$	2
5.21	Multiple	Pump Station Electrical and Wiring	LS		\$	\$	2
5.22	26 32 14	Engine Generator - Diesel - 2000 kW	LS		\$	\$	2
5.23	04 22 00	CMU Enclosure Around Generator	LS		\$	\$	4
5.24		Modifications to Existing 1500 kW Generator	LS		\$	\$	4
5.25		Demolition of Existing 3000A ATS	LS		\$	\$	4
5.26		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$	\$	2
Section 5 BASE BID SUB-TOTAL \$							
6.0 ARWA Interconnect							
6.1	111S	Excavation and Grading	CY		\$	\$	3
6.2	509S	Trenching (inc. safety and stability all depths)	LF		\$	\$	3
6.3	236S	Proof Rolling	HR		\$	\$	3
6.4	602S	Construction Erosion Control	SY		\$	\$	3
6.5	642S	Silt Fences	LF		\$	\$	3
6.6	609S	Landscape, Irrigation, Seeding, Hydromulch	SF		\$	\$	3
6.7	402S	Controlled Low Strength Material	CY		\$	\$	3
6.8	510S	16-Inch Steel Pipe (incl. fittings and supports)	LF		\$	\$	3
6.9	511S	16-Inch Gate Valves	EA		\$	\$	3
6.10	40 05 64	16-Inch Butterfly Valves	EA		\$	\$	3

Item No.	Specification Reference	Unit Description	Unit	Est. Quantity	Unit Price	Unit Total	***
6.11	511S	Drain Valves	EA		\$_	\$_	3
6.12	511S	Air Release Valves	EA		\$_	\$_	3
6.13	410S, 03 00 05	Concrete Pad	CY		\$_	\$_	3
6.14	432S	Concrete Sidewalks	SF		\$_	\$_	3
6.15	C-900	Clay Collars	EA		\$_	\$_	3
6.16	M-901	Valve Vault	LS		\$_	\$_	3
6.17		Miscellaneous Costs Not Captured within Section of Bid Form	LS		\$_	\$_	3
Section 6 BASE BID SUB-TOTAL \$ _							
7.0 Additional Items							
7.1	G-007, G-008, G-010	Stormwater Pollution Prevention Plan	LS		\$_	\$_	5
7.2	Multiple	Site Electrical and Wiring					5
7.3	40 62 16	Site Instrumental and Controls					5
7.40	40 91 10	Primary Meters and Transmitters					5
Section 7 BASE BID SUB-TOTAL \$ _							
BASE BID					TOTAL \$ _		
Words:							

EXHIBIT B
[INSERT SCHEDULES]

DRAFT

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, January 12th, 2022 at 3:00 P.M.

Conference Call Number: 1-346-248-7799; Meeting ID: 968 8616 3170; Code: 495028

- F.4** Discussion and possible recommendation to the Board to approve a Work Order with Pape-Dawson Engineers, Inc. for Construction Management and Inspection Services on the Authority's Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
-

Background/Information

The Technical Committee discussed a possible new work order with Pape-Dawson to continue with construction management and inspection services at the December meeting. As a result of the discussion, a sub-committee met to discuss the current proposal and to consider ways to monitor the expenditures under the proposed work order and possibly ways to reduce the costs. As a result of the sub-committee's work, Pape-Dawson is currently revising their proposal and it is not available for inclusion in the packet. The updated information will be made available to the Committee prior to the January meeting.

Technical Committee Decision Needed:

- To be determined.

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F.5 Discussion and possible direction to Staff on items affecting the Phase 1B Program, to include the possibility of logos on the elevated storage tanks, increased pressure and capacity in the Segment D pipeline and possibly allowing contractor personnel to temporarily live on property owned by the Authority. ~
Graham Moore, P.E., Executive Director

Background/Information

There are a number of items for which Staff is seeking Technical Committee input:

1. Whether or not to place ARWA logos on the elevated storage tanks.
2. Whether to increase the Segment D pipeline capacity by increasing portions of the pipe pressure class.
3. Whether to allow contractor personnel to temporarily live on ARWA property during construction projects.

ARWA Logos on Elevated Storage Tanks

ARWA will install two elevated storage tanks as part of the Phase 1B Program, one in the north and one in the south. The northern tank will be readily visible to both City of Kyle and County Line SUD customers, whereas the southern tank is in the middle of Crystal Clear SUD. Staff would like the Committee's input as to whether there is any concern in confusing the public as to who supplies their water by providing logos on the elevated tanks. In accordance with TCEQ requirements, the security fencing will include contact information for Alliance Water.

Segment D – Increased Capacity through Pressure Class Increase

As part of an effort to calculate the capacity of the Segment D pipeline, Freese & Nichols noted that by increasing the pressure class of a few thousand feet of the pipeline that the overall capacity of the line can be increased. The table below indicates the additional capacity to be gained along with the accompanying cost.

	Option 1 – Slight Increase in Pressure Class	Option 2 – Significant Increase in Pressure Class
Additional Capacity (gpm)	1,080 (5.1%)	3,970 (18.7%)
Length of Pressure Class Change (feet)	3,458	15,788
Additional Cost of Pressure Class Change	\$145,236 (0.33%)	\$616,224 (1.4%)

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Consider Allowing Contractor Personnel to Temporarily Live on ARWA Property

The contractor for the Water Treatment Plant, Archer-Western, has requested the ability to house some of their personnel on the Water Treatment Plant property. According to Archer-Western, several of their employees have requested the ability to setup trailers on the property to save them from having to commute back and forth everyday to the remote location. Archer Western has requested this as they are concerned about losing qualified personnel in such tight labor markets if they are not able to accommodate their employees.

Staff inquired if Archer-Western had a standard contract that could be reviewed by Alliance Water to deal with situations such as this. They could not locate any such agreements. Likewise, Alliance Water Staff does not have any experience with similar type arrangements.

Technical Committee Decision Needed:

- Possible direction to Staff.

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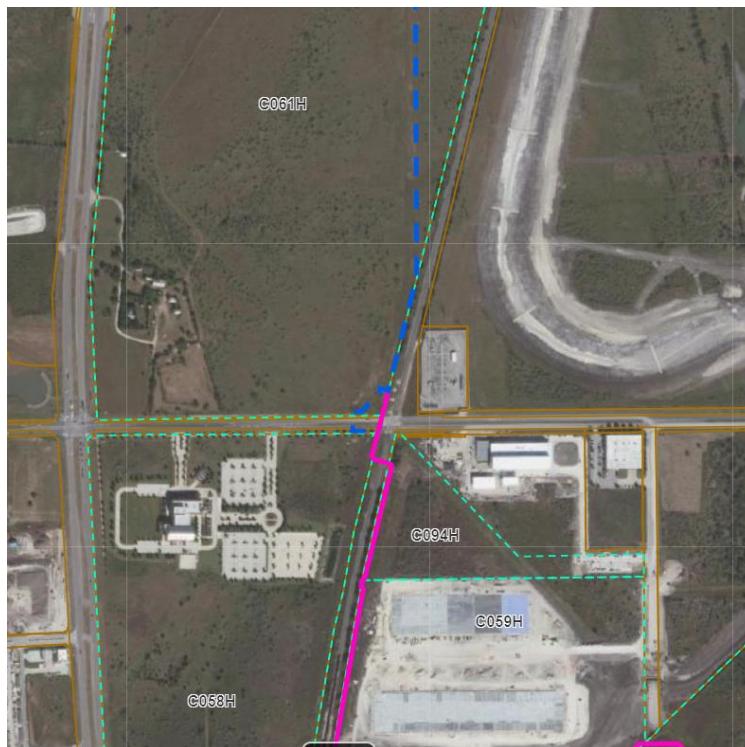
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- F.6** Discussion and possible direction to Staff regarding impacts of the Union Pacific Railroad Crossing expansion project at Kohler's Crossing and it's impacts on the Segment C and Phase 1A pipeline projects. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The Union Pacific Railroad is working on adding another track to the west of their existing track on the north side of Kyle. The Phase 1B team has been coordinating with UPRR so that the Segment C pipeline can be designed appropriately, but we were also made aware that the existing Phase 1A pipeline will be impacted.

UPRR has indicated that the Phase 1A pipeline can stay in its current horizontal location, but that it would need to be lowered in order to comply with their regulations for utilities within the UPRR. Since Alliance Water has a dedicated easement for this line, the lowering of the 24-inch line would be reimbursed by UPRR. Staff has requested an agreement from UPRR for this effort.



Technical Committee Decision Needed:

- Possible Direction to Staff.

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- F.7** Update on status of groundwater management in project target area, and Gonzales County Underground Water Conservation District, Plum Creek Conservation District, Groundwater Management Area 13, Region L Planning Group, Guadalupe-Blanco River Authority, Hays County and CAPCOG activities.
~ *Graham Moore, P.E., Executive Director*
-

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD is scheduled to meet on January 11th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on January 18th. The PCCD is likely to approve ARWA's request to delay the construction of one of its production wells, but will still want one of the two required monitoring wells to be drilled before the ARWA Well Field starts up in 2023.

Groundwater Management Area 13

No update.

Region L Planning Group

No update.

Guadalupe-Blanco River Authority; Hays County Activities; CAPCOG Activities

No update.

Technical Committee decision needed:

- None.

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- G. EXECUTIVE DIRECTOR REPORT** - Update on future meeting dates, locations, consultant invoices paid, approved changed orders, status of Authority procurements, Executive Director activities and other operational activities where no action is required. ~ *Graham Moore, P.E., Executive Director*

Consultant Invoices Paid

- Below are reports on the consultant invoices paid in December.

FY 21-22 CONSULTANT INVOICES PAID IN DECEMBER 2021

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
RW Harden	\$30,000.00	\$0.00	\$0.00	0%	\$30,000.00	
Kent Alan Sick - ROW Legal	\$30,000.00	\$0.00	\$0.00	0%	\$30,000.00	
LNV - GIS Svcs	\$1,590.88	\$0.00	\$0.00	0%	\$1,590.88	
Armstrong, Vaughan & Associates, P.C.	\$10,930.00	\$0.00	\$0.00	0%	\$10,930.00	
J.R. Tolles & Associates, Inc.	\$255,000.00	\$16,042.00	\$34,021.00	13%	\$220,979.00	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$6,795.07	\$6,795.07	5%	\$118,204.93	
CD&P - Public Relations	\$50,000.00	\$0.00	\$0.00	0%	\$50,000.00	
Law Offices of Patricia Erlinger Carls	\$22,284.70	\$0.00	\$0.00	0%	\$22,284.70	
Total	\$524,805.58	\$22,837.07	\$40,816.07		\$483,989.51	

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- On the following page is the report on the Phase 1B invoices paid in December.

PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN DECEMBER 2021

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/ Anomalies
Kimley-Horn Ph 1B Owner's Rep WO5	\$1,211,382.72	\$328,600.45	\$328,600.45	27%	\$882,782.27	
Blanton - Environmental	\$148,572.15	\$0.00	\$0.00	0%	\$148,572.15	
LAN - Segment A Final	\$37,197.04	\$27,481.36	\$27,481.36	74%	\$9,715.68	
KFA - Segment B Final	\$89,769.42	\$0.00	\$0.00	0%	\$89,769.42	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$147,053.89	\$15,624.38	\$15,624.38	11%	\$131,429.51	
FNI - Segment D Prelim	\$61,533.66	\$0.00	\$0.00	0%	\$61,533.66	
FNI - Segment D Final	\$119,140.78	\$35,046.65	\$35,046.65	29%	\$84,094.13	
Walker - Segment E Prelim	\$38,153.24	\$0.00	\$0.00	0%	\$38,153.24	
Walker - Segment E Final	\$286,815.35	\$11,938.59	\$11,938.59	4%	\$274,876.76	
LAN - ROW Acquisition	\$741,441.42	\$24,493.08	\$24,493.08	3%	\$716,948.34	
DTR&G	\$2,000,000.00	\$0.00	\$141,953.82	7%	\$1,858,046.18	
CBRE - Appraisals	\$943,090.00	\$119,900.00	\$119,900.00	13%	\$823,190.00	
CP&Y - Survey	\$357,734.00	\$25,249.00	\$25,249.00	7%	\$332,485.00	
RW Harden - WDH Const Admin	\$12,470.00	\$4,640.00	\$4,640.00	37%	\$7,830.00	
LNV - RWI	\$113,027.50	\$770.00	\$770.00	1%	\$112,257.50	
FNI - BPS Final	\$230,036.10	\$224.98	\$224.98	0%	\$229,811.12	
Plummer - Inline Elevated Tank Prelim	\$3,730.07	\$0.00	\$0.00	0%	\$3,730.07	
Plummer - Inline Elevated Tank Final	\$290,663.43	\$20,364.89	\$20,364.89	7%	\$270,298.54	
Pape-Dawson - CM&I WO#5	\$1,501,376.61	\$207,624.51	\$375,242.61	25%	\$1,126,134.00	
Hicks & Co - WDH Environmental	\$15,571.00	\$0.00	\$0.00	0%	\$15,571.00	
Walker Partners - WTP CA Svcs	\$1,089,020.22	\$41,232.56	\$41,232.56	4%	\$1,047,787.66	
LNV/Ardurura - RWI CA Svcs	\$340,160.00	\$0.00	\$0.00	0%	\$340,160.00	
FNI - BPS CA Svcs	\$494,734.50	\$6,196.25	\$6,196.25	1%	\$488,538.25	
CP&Y - SCADA Programming Svcs	\$821,470.94	\$35,133.04	\$82,025.54	10%	\$739,445.40	
HVJ - Materials Testing	\$473,148.75	\$10,568.50	\$11,445.00	2%	\$461,703.75	
Total	\$11,582,392.03	\$915,088.24	\$1,272,429.16	11%	\$10,309,962.87	

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Approved Change Orders

CHANGE ORDERS APPROVED IN DECEMBER 2021				
Consultant	Original Authorization	Change Orders to Date	Change Order Approved this Month	New Total Contract Amount
Freese & Nichols: 1B BPS & DP Prelim	\$ 771,617.00	\$ 44,408.00	\$ -	\$ 816,025.00
CP&Y: Ph 1B Program Survey	\$ 3,375,780.00	\$ 83,500.00	\$ -	\$ 3,459,280.00
Freese & Nichols: 1B Segment D (Final)	\$ 1,999,464.00	\$ 251,437.96	\$ 21,358.87	\$ 2,229,543.09
LAN: 1B Segment A Final Design	\$ 1,903,077.00	\$ 262,949.00	\$ -	\$ 2,166,026.00
Blanton & Assoc: Environmental Invest.	\$ 1,398,775.00	\$ 150,703.00	\$ -	\$ 1,549,478.00
K Friese & Assoc: 1B Seg B Final Design	\$ 1,830,994.00	\$ 306,242.13	\$ -	\$ 2,063,949.13
LAN: 1A Seg B Const Admin	\$ 108,860.01	\$ 6,204.04	\$ -	\$ 115,064.05
LNV: 1B Raw Water (Design)	\$ 1,418,700.00	\$ 85,337.00	\$ -	\$ 1,504,037.00
Walker Partners: 1B Seg E (Final)	\$ 1,190,421.00	\$ 123,128.00	\$ -	\$ 1,313,549.00
BGE: 1B Segment C Final	\$ 2,688,310.00	\$ 280,021.00	\$ -	\$ 2,968,331.00
Freese & Nichols: 1B BPS & DP Final	\$ 1,580,519.00	\$ 126,073.00	\$ -	\$ 1,706,592.00
Pape Dawson: CMI	\$ 57,520.00	\$ 43,080.00	\$ -	\$ 100,600.00
Walker Partners: WTP (CA Svcs)	\$ 1,638,207.00	\$ 108,344.00	\$ 108,344.00	\$ 1,746,551.00

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- H.** COMMITTEE MEMBER ITEMS OR FUTURE AGENDA ITEMS – Possible acknowledgement by Committee Members of future area events and/or requests for item(s) to be placed on a future agenda where no action is required.

Background/Information

The Committee Members have an opportunity to make announcements or to request that items be added to future Board or Committee agendas.

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I.1 *Executive Session pursuant to the Government Code, Section 551.071 (Consultation with Attorney) and/or Section 551.072 (Real Property Deliberations) regarding:*

- A. *Water supply partnership options*
 - B. *Groundwater leases*
 - C. *Acquisition of real property for water supply project purposes*
-

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I.2 Action from Executive Session on the following matters:

- A. *Water supply partnership options*
 - B. *Groundwater leases*
 - C. *Acquisition of real property for water supply project purposes*
-

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J. ADJOURNMENT
