

**Alliance Regional Water Authority  
Technical Committee**

**REGULAR MEETING**



**ALLIANCE WATER**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 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, April 13th, 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, April 13, 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](mailto:info@alliancewater.org) prior to 3:00 p.m. on April 13, 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 February 9, 2022. ~ *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 Update, discussion and possible direction to Staff regarding the Authority's Water Quality and Corrosion Report. ~ *Marisa Vergara, P.E., CP&Y, Inc.*
- F.4 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*
- F.5 Update and possible direction to Staff regarding the Authority's infrastructure during the February 2022 winter freeze. ~ *Jason Biemer, Director of Operations*
- F.6 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
  - 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*

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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**

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No Backup Information for this Item.

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**B. ROLL CALL**

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NAME PRESENT

Blake Neffendorf

James Earp

Paul Kite

Humberto Ramos

Tim Samford

Regina Franke

NON-VOTING MEMBERS PRESENT

Mayor Lee Urbanovsky

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

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**C. PUBLIC COMMENT PERIOD**

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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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**Alliance Regional Water Authority Technical Committee**

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**D. CONSENT AGENDA**

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



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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**D.1** Consider approval of minutes of the Technical Committee Meeting held February 9, 2022. ~ *Graham Moore, P.E., Executive Director*

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Attachment(s)

- 2022 02 09 Technical Committee Meeting Minutes

**Technical Committee decision needed:**

- Approval of minutes.



## ALLIANCE WATER

### Alliance Regional Water Authority

### TECHNICAL COMMITTEE MEETING

### MINUTES

**Wednesday, February 9, 2022**

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, February 9, 2022 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 3:01 p.m. by Mr. Samford.**

B. ROLL CALL.

- **Present: Neffendorf, Kite, Ramos and Samford with Franke joining in Item F.1.**
- **Absent: Earp and Urbanovsky.**

C. PUBLIC COMMENT PERIOD

- **None.**

D. CONSENT AGENDA

D.1 Consider approval of minutes of the Regular Technical Committee Meeting held January 12, 2022.

- **Motion to adopt the minutes as presented was made by Mr. Neffendorf, seconded by Mr. Ramos 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. Nootboom with Pape-Dawson provided an update on the Phase 1B construction.**
  - **Mr. Moore provided a general update on GVEC's schedule.**
  - **Mr. Neffendorf asked if everything associated with the access road added with Change Order #1 is complete, including on the GVEC side.**
  - **Mr. Moore affirmed that the work is complete, including GVEC's extension to their substation site.**
  - **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.**
  - **Mr. Ramos asked if GBRA shared their raw water data. Mr. Sowa confirmed that all raw water data was shared by GBRA.**
  - **No Action.**
- F.3 Possible recommendation to the Board to approve work orders with Blanton & Associates for additional environmental work on the Phase 1B Program.
- **Mr. Moore presented the proposed environmental work orders.**
  - **Motion to recommend to the Board approval of the environmental work orders with Blanton & Associates was made by Mr. Ramos, seconded by Mr. Samford and approved on a 5-0 vote.**
- F.4 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Cost and Schedule Updates.
- **Mr. Sowa provided an update.**
  - **Mr. Neffendorf asked how splitting the elevated tanks into two packages would impact San Marcos's schedule.**
  - **Mr. Moore indicated that San Marcos was fine with the possibility.**
  - **No Action.**
- F.5 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases.
- **Mr. Moore provided an update.**
  - **Mr. Neffendorf asked when a decision must be made. Mr. Moore responded that no later than August.**
  - **No Action.**

- F.6 Discussion and possible recommendation to the Board to approve a work order with Kimley-Horn & Associates, Inc. for Owner's Representative Services for March 2022 through February 2023 for the Authority's Phase 1B Program.
- **Mr. Moore presented the proposed Kimley-Horn work order.**
  - **Mr. Ramos made a recommendation to the Board to approve a work order with Kimley-Horn & Associates for Owner's Representative Services for March 2022 through February 2023; seconded by Mr. Neffendorf and approved on a 5-0 vote.**
- F.7 Possible recommendation to the Board to approve a work orders with HVJ Associates for material testing on the Booster Pump Station and Delivery Points Project and the Segment A Pipeline project.
- **Mr. Moore reported that the work orders were not ready for review and will be brought to the Board meeting for consideration.**
  - **No Action.**
- F.8 Discussion and possible recommendation to the Board for the Authority to join the Texas 811 system.
- **Mr. Ramos made a recommendation to the Board to enter into an agreement with Texas 8-1-1 for utility location services and to add it to the ARWA website; seconded by Mr. Samford and approved on a 5-0 vote.**
- F.9 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

- **Mr. Samford requested an update as to how the ARWA infrastructure fared in the recent cold weather event.**

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 4:22 p.m. by Mr. Samford.**

**APPROVED:** \_\_\_\_\_, 2022

\_\_\_\_\_

**REGULAR MEETING**  
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**COMMITTEE MEMBER PACKETS**

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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 – April 13, 2022

**Technical Committee Decisions Needed:**

- None.



# Phase 1B Program Update

Technical Committee Meeting  
April 13, 2022



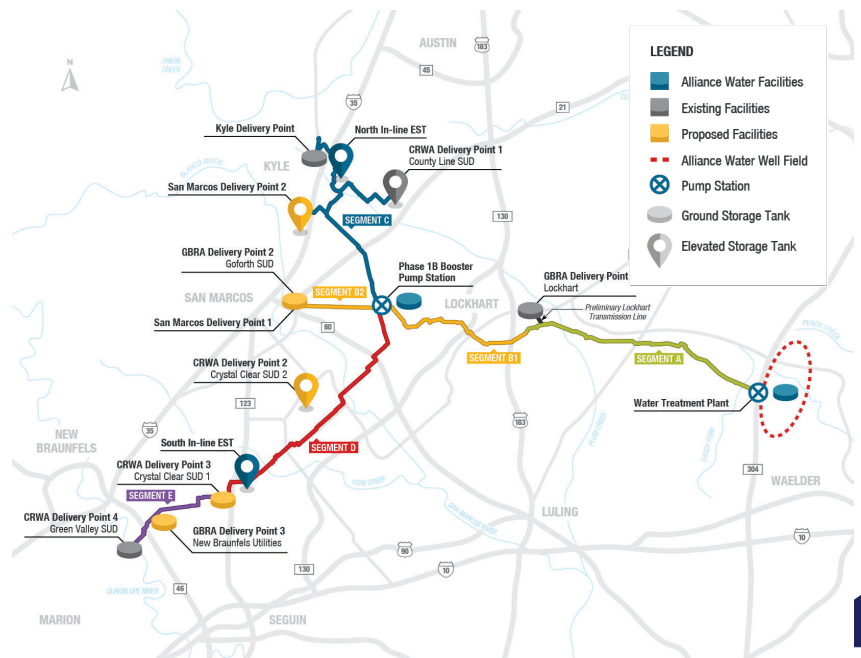
**ALLIANCE WATER**

PRESENTED BY **Kimley»Horn**  
Expect More. Experience Better.

## Ongoing Progress

### ► Design Milestone Status

- Design Submittals
  - Segment E – 100% submittals anticipated in May
  - Segment C – 100% submittals anticipated in May
- TWDB Reviews
  - Segment A
    - Land Acquisition Release in Preparation
  - Segment B
    - Construction Funding Released
    - Land Acquisition Release in Preparation
  - Well Drilling
    - Certificate of Approval Received
    - Project Closeout Request Funds Released



# Ongoing Progress

## ► Additional Updates

- Segment D USACE Review Status
- Market Volatility / Supply Chain Concerns



# 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	1	1	51
D	57	0	0	2	2	10	12	45
C	78	6	20	4	30	29	59	19
E	38	2	5	1	8	20	28	10
Well Field	17	0	9	1	10	0	10	7
<b>Total</b>	<b>281</b>						<b>110</b>	<b>171</b>





## COST UPDATES BASED ON MARCH MILESTONE SUBMITTALS/RESULTS

		ORIGINAL (FEB. 2019)	REVISED	
	Construction Package	ARWA Total Projected Cost	ARWA Total Projected Cost	DIFFERENCE
<b>Submittal (%) Combined Program Infrastructure</b>				
Const.	Water Treatment Plant	\$ 25,200,000	\$ 29,500,000	\$ 4,300,000
Const.	Booster Pump Station & GBRA Meter Stations	\$ 12,100,000	\$ 13,700,000	\$ 1,600,000
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
	<b>Subtotal</b>	<b>\$141,000,000</b>	<b>\$164,300,000</b>	<b>\$ 23,300,000</b>
<b>ARWA-Only Infrastructure</b>				
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)
	<b>Subtotal</b>	<b>\$ 99,400,000</b>	<b>\$110,600,000</b>	<b>\$ 11,200,000</b>
<b>Total</b>		<b>\$240,400,000</b>	<b>\$274,900,000</b>	<b>\$34,500,000</b>

APRIL 2022 UPDATE

**NO CHANGE FROM  
MARCH UPDATE**



# Questions?

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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 – April 13, 2022
- Kimley-Horn Monthly Summary of Activities for March 2022

**Technical Committee Decisions Needed:**

- None.



# Phase 1B Program Update

Technical Committee Meeting  
April 13, 2022



**ALLIANCE WATER**

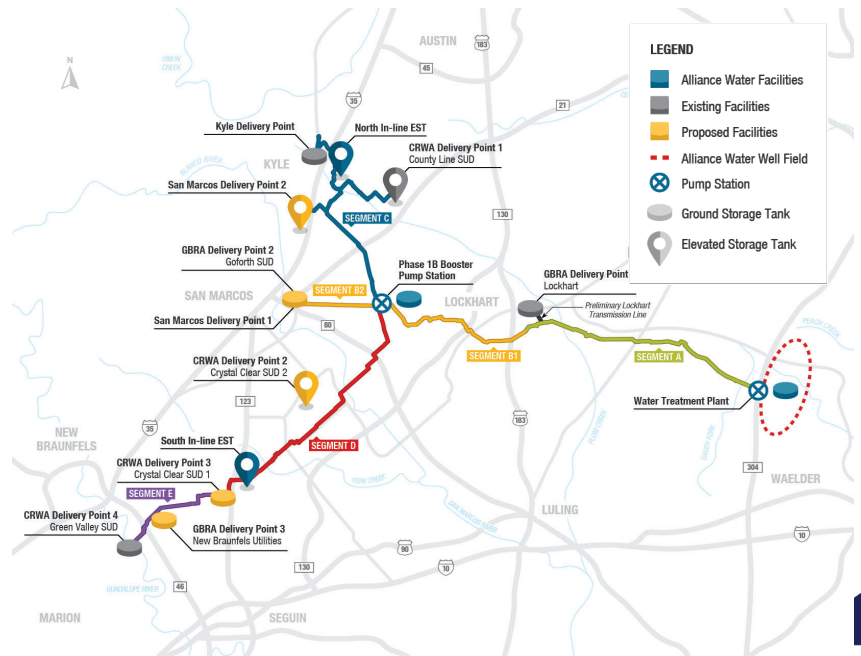
Kimley»Horn  
Expect More. Experience Better.

PRESENTED BY

## Ongoing Progress

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**ALLIANCE WATER**

# Ongoing Progress

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<b>Total</b>		<b>\$240,400,000</b>	<b>\$274,900,000</b>	<b>\$34,500,000</b>

APRIL 2022 UPDATE

**NO CHANGE FROM  
MARCH UPDATE**



# Questions?

April 8, 2022

## **Project Monthly Summary**

March 2022 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 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 Board meeting.
  - 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, Design Consultants, and Construction Management & Inspection team.
  - Integrated each project schedule into overall Program schedule. Developed and distributed the monthly Program schedule summary.
  
- Task 6 – Data Management
  - Finalized compiling data associated with the GIS WebMap and released the new GIS WebMap for the Program’s use.
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for easement acquisition process and alignment changes.
  
- Task 7 – Environmental Management
  - Tracked the review of the Segment D Cultural Report by the United States Army Corps of Engineers (USACE).
  - Reviewed the Segment E Hazmat Phase II and Technical Documents report prepared by the Environmental Consultant.
  - Continued coordination with Program Environmental Consultant concerning the comment responses to the USACE.
  - 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**

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- 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, 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 as well as preparation of funding release requests.
  
- 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.
      - Attended Pre-Construction Meeting with Contractor and Design Consultant.
    - 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
      - Continued coordination with Design Consultant for final design and preparation for procurement.
    - Segment E

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

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- 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, BBEC, and LCRA.
  - On-going Permit Tracking Log Updates.
- Task 15 – Procurement and Construction Phase Services
  - On-going coordination with the Construction Management & Inspection team.
  - Continued coordinated with Segment A and BPS Design Consultants during the construction phase.



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

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

April 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 Technical Committee Meeting 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
  - Prepare and present the monthly Budget Update for the Technical Committee and Board meetings.
  - 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, Design Consultants, and Construction Management & Inspection team.
  - Integrate each project schedule into overall Program schedule. Develop and distribute schedule update and memorandum.
  
- Task 6 – Data Management
  - Coordinate with ARWA and Construction Management & Inspection Team to begin integrating construction data collected on the new GIS WebMap.
  - Ongoing maintenance of Microsoft SharePoint Online program.
  - Continued updating of web-based GIS for easement acquisition process and alignment changes.
  
- Task 7 – Environmental Management
  - Continue review the Segment E 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 studies for Segment C and E.

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

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- 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.
- 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, 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 as well as preparation of funding release requests.
  
- 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 construction phase services.
    - Segment C
      - Continue coordination with Design Consultant for final design.

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

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- Continue coordination with Design Consultant regarding ongoing field work and pipeline alignment considerations.
    - Segment D
      - Continue coordination with Design Consultant for final design and preparation for procurement.
    - Segment E
      - Begin review of Segment E 100% Design submittal prepared by the Design Consultant.
      - Continue coordination with Design Consultant for final design.
  - Wellfield:
    - Continue coordination with TWDB regarding the close out approval for 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, BBEC, and LCRA.
    - On-going Permit Tracking Log Updates.

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

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- Task 15 – Procurement and Construction Phase Services
  - On-going coordination with the Construction Management & Inspection team.
  - On-going coordination with Segment A, Segment B, and BPS Design Consultants during the construction phase.
  - 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, April 13th, 2022 at 3:00 P.M.

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

- F.3** Update, discussion and possible direction to Staff regarding the Authority's Water Quality and Corrosion Report. ~ *Marisa Vergara, P.E., CP&Y, Inc.*
- 

Background/Information

Marisa Vergara with CP&Y, Inc. will update the Committee on the recent Water Quality and Corrosion Report submitted to TCEQ and the next steps in interconnecting with the customer's systems.

Attachment(s)

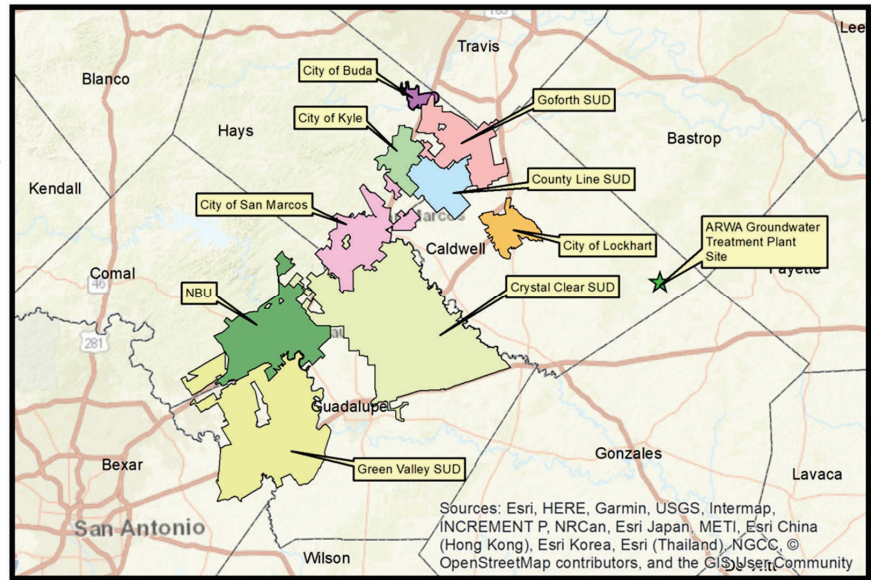
- Phase 1B Program Update – April 13, 2022

**Technical Committee Decisions Needed:**

- None.

# ARWA and TCEQ Interconnect Technical Committee

April 13, 2022



## Meeting Agenda

- Corrosivity Engineering Report
- Interconnection



# ARWA Corrosivity Report

- Conditionally Approved March 14, 2022:
  - Advise to PWSs receiving water that each will need their own corrosivity water report based on the information included in the ARWA report.

## • ARWA WTP Blending Scenario Summary

Scenario 1	Scenario 2	Scenario 3	Scenario 4
Max Flow Phase 1B =19.51 MGD	100% GBRA Flow =18.75 MGD	100% ARWA Flow = 8MGD	Low Flow Scenario = 4.64 MGD
ARWA Wells = 6.13MGD GBRA Wells = 13.38MGD	ARWA Wells = 0 MGD GBRA Wells = 18.75MGD	ARWA Wells = 8 MGD GBRA Wells = 0 MGD	ARWA Wells = 4.64MGD GBRA Wells = 0 MGD
	All 7 GBRA Wells Online	All 4 ARWA Wells Online	1 – High Service Pump Online



# Stakeholder PWS Corrosivity Reports

- Desktop Corrosivity Report study utilizing:
  - Due at the time of Interconnection Application
  - Chemical Analysis report (Alk, Calcium, Sodium, Sulfate, TDS, etc.)
  - Blend scenarios of existing sources with ARWA water
- Stakeholder coordination for Water Quality Operational Scenarios
- Required to be sealed by an Engineer



## TCEQ Interconnect Permit Requirements

- Describe interconnection (materials, valves, pipes, purpose etc.)
- Disinfection compatibility
- System's capacity calculation (TAC 290.45)
- Chemical Analysis report (Alk, Calcium, Sodium, Sulfate, TDS, etc.)
- Corrosion Control Treatment description and analysis of blending of two waters submitted by a Sealed Engineering Report.



## Stakeholder Follow-up Report

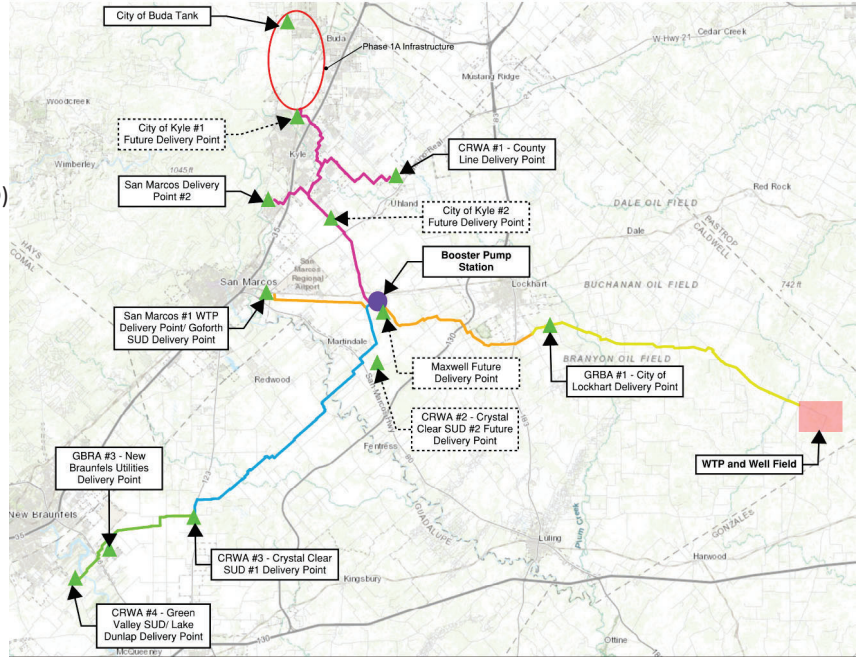
- May be listed as a condition to approval of interconnection
- Due 6 months after interconnection
- Water quality sampling on all entry points after change occurs
- Corrosion index calculations after change occurs
- Treatment Required if water is corrosive (EPA OCCT guidance)
- Action Level Exceeders are required to contact TCEQ for separate type of study





# Interconnections

- Proposed ARWA Interconnects
  - San Marcos #2
  - County Line (CRWA #1)
  - San Marcos #1 WTP (Goforth SUD)
  - Crystal Clear SUD #1 (CRWA #3)
  - Green Valley SUD/Lake Dunlap (CRWA #4)
- Proposed GBRA Interconnects
  - City of Lockhart (GBRA #1)
  - New Braunfels Utilities (GBRA #3)
- Future
  - City of Kyle #1
  - City of Kyle #2
  - Maxwell
  - Crystal Clear SUD #2 (CRWA #2)



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

- F.4** Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*
- 

Background/Information

Staff is working with the Authority's financial advisors and bond counsel to review financing options that are separate from the TWDB SWIFT funding. A presentation will be made at the April Board meeting providing updates comparing the process, timing, rates, etc. of financing through SWIFT compared to a seeking funds on the open market.

**Technical Committee Decisions Needed:**

- None.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

**F.5** Update and possible direction to Staff regarding the Authority's infrastructure during the February 2022 winter freeze. ~ *Jason Biemer, Director of Operations*

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Background/Information

Mr. Samford requested a presentation as to how the Authority's infrastructure fared during the February 2022 winter freeze.

Attachment(s)

- Cold Weather Post Event Review

**Technical Committee Decisions Needed:**

- None.

# Cold Weather Post Event Review



Wednesday February 2, 2022  
through Monday February 7, 2022

## Conditions Summary



Minimum Temperature of 18°F



Maximum Temperature of 61°F



Ice buildup ranged from near 0" to 3/8"



Winds out of the north exceeding 30 mph



Precipitation totaled approximately 2.4" as temperatures dropped below freezing.



Additional precipitation fell as sleet and snow.

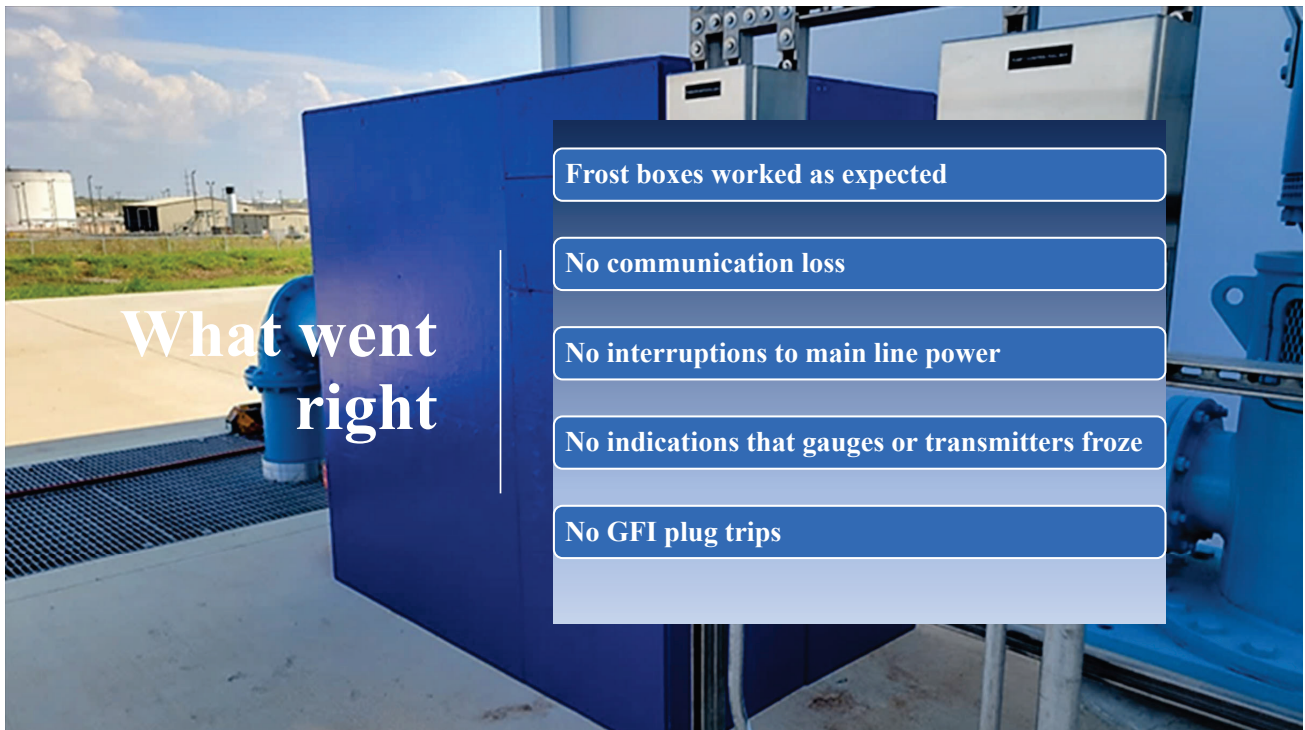




## What went wrong

Electric gate was completely iced over and inoperable.

Minor check valve leak on backup chlorine feed line.



## What went right

Frost boxes worked as expected

No communication loss

No interruptions to main line power

No indications that gauges or transmitters froze

No GFI plug trips

# Moving forward

Confirmed Standard Operating Procedure for cold weather is acceptable.

Main gate access is susceptible to heavy icing. A spray deicing agent has been identified for use on the gate in the event critical access through it is required. Alternate access gates inherently more resilient to ice effects.

A backup check valve assembly will be acquired and stored on site.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

- F.6** 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 April 12th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on April 19th.

Groundwater Management Area 13

GMA-13 is scheduled to meet on April 22nd.

Region L Planning Group

No update.

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

No update.

**Technical Committee decision needed:**

- None.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

- 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*

Construction Management & Inspection

- Staff will report on the CM&I invoicing at the May Technical Committee meeting. To date only one invoice for work performed in February has been received.

Consultant Invoices Paid

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

**FY 21-22 CONSULTANT INVOICES PAID IN FEBRUARY 2022**

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
RW Harden	\$30,000.00	\$0.00	\$285.00	1%	\$29,715.00	
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	\$20,968.00	\$70,951.00	28%	\$184,049.00	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$0.00	\$18,135.77	15%	\$106,864.23	
CD&P - Public Relations	\$50,000.00	\$0.00	\$9,983.96	20%	\$40,016.04	
Law Offices of Patricia Erlinger Carls	\$22,284.70	\$0.00	\$0.00	0%	\$22,284.70	
Schlueter Group of Texas, LLC	\$45,000.00	\$5,000.00	\$5,000.00	11%	\$40,000.00	
<b>Total</b>	<b>\$524,805.58</b>	<b>\$20,968.00</b>	<b>\$99,355.73</b>		<b>\$425,449.85</b>	



**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

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

**FY 21-22 CONSULTANT INVOICES PAID IN MARCH 2022**

<b>Consultant</b>	<b>Total Authorized</b>	<b>Current Invoice</b>	<b>Invoiced-to-Date</b>	<b>% of Contract Invoiced</b>	<b>Remaining</b>	<b>Notes/ Anomalies</b>
RW Harden	\$30,000.00	\$7,125.08	\$7,410.08	25%	\$22,589.92	
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	\$10,930.00	\$10,930.00	100%	\$0.00	
J.R. Tolles & Associates, Inc.	\$255,000.00	\$19,692.40	\$90,643.40	36%	\$164,356.60	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$10,624.60	\$28,760.37	23%	\$96,239.63	
CD&P - Public Relations	\$50,000.00	\$6,864.25	\$24,177.86	48%	\$25,822.14	
Law Offices of Patricia Erlinger Carls	\$22,284.70	\$0.00	\$0.00	0%	\$22,284.70	
Schlueter Group of Texas, LLC	\$45,000.00	\$5,000.00	\$15,000.00	33%	\$30,000.00	
<b>Total</b>	<b>\$524,805.58</b>	<b>\$55,236.33</b>	<b>\$161,921.71</b>		<b>\$362,883.87</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

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

**PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN FEBRUARY 2022**

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	\$101,146.73	\$429,747.18	35%	\$781,635.54	
Blanton - Environmental	\$148,572.15	\$0.00	\$77,487.14	52%	\$71,085.01	
LAN - Segment A Final	\$37,197.04	\$0.00	\$28,001.36	75%	\$9,195.68	
LAN - Segment A Construction	\$605,957.91	\$0.00	\$11,256.12	2%	\$594,701.79	
KFA - Segment B Final	\$89,769.42	\$0.00	\$33,658.89	37%	\$56,110.53	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$147,053.89	\$0.00	\$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	\$0.00	\$62,843.16	53%	\$56,297.62	
Walker - Segment E Prelim	\$38,153.24	\$0.00	\$0.00	0%	\$38,153.24	
Walker - Segment E Final	\$311,815.35	\$0.00	\$25,536.09	8%	\$286,279.26	
LAN - ROW Acquisition	\$741,441.42	\$0.00	\$61,252.97	8%	\$680,188.45	
DTR&G	\$2,000,000.00	\$0.00	\$398,606.61	20%	\$1,601,393.39	
CBRE - Appraisals	\$943,090.00	\$0.00	\$119,900.00	13%	\$823,190.00	
CP&Y - Survey	\$357,734.00	\$13,491.00	\$94,050.50	26%	\$263,683.50	
RW Harden - WDH Const Admin	\$12,470.00	\$0.00	\$8,004.00	64%	\$4,466.00	
LNV - RWI	\$113,027.50	\$0.00	\$4,395.00	4%	\$108,632.50	
FNI - BPS Final	\$230,036.10	\$0.00	\$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	\$0.00	\$20,364.89	7%	\$270,298.54	
Pape-Dawson - CM&I WO#5	\$1,501,376.61	\$0.00	\$662,232.81	44%	\$839,143.80	
Hicks & Co - WDH Environmental	\$15,571.00	\$0.00	\$0.00	0%	\$15,571.00	
Walker Partners - WTP CA Svcs	\$1,253,702.22	\$0.00	\$117,063.52	9%	\$1,136,638.70	
LNV/Ardurura - RWI CA Svcs	\$340,160.00	\$0.00	\$11,490.00	3%	\$328,670.00	
FNI - BPS CA Svcs	\$494,734.50	\$0.00	\$12,346.00	2%	\$482,388.50	
CP&Y - SCADA Programming Svcs	\$821,470.94	\$13,215.00	\$95,240.54	12%	\$726,230.40	
HVJ - Materials Testing (WTP)	\$473,148.75	\$0.00	\$24,922.25	5%	\$448,226.50	
<b>Total</b>	<b>\$12,378,031.94</b>	<b>\$127,852.73</b>	<b>\$2,314,248.39</b>	<b>19%</b>	<b>\$10,063,783.55</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

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

**PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN MARCH 2022**

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	\$211,425.27	\$641,172.45	53%	\$570,210.27	
Blanton - Environmental	\$1,184,938.15	\$149,694.43	\$227,181.57	19%	\$957,756.58	
LAN - Segment A Final	\$37,197.04	\$401.72	\$28,403.08	78%	\$8,793.96	
LAN - Segment A Construction	\$805,957.91	\$12,467.50	\$23,723.62	4%	\$582,234.29	
KFA - Segment B Final	\$89,769.42	\$25,350.27	\$59,009.16	66%	\$30,760.26	
BGE - Segment C Prelim	\$15,099.24	\$0.00	\$0.00	0%	\$15,099.24	
BGE - Segment C Final	\$147,053.89	\$0.00	\$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	\$34,785.15	\$97,628.31	82%	\$21,512.47	
Walker - Segment E Prelim	\$38,153.24	\$0.00	\$0.00	0%	\$38,153.24	
Walker - Segment E Final	\$311,815.35	\$9,407.72	\$34,943.81	11%	\$276,871.54	
LAN - ROW Acquisition DTR&G	\$741,441.42	\$71,258.82	\$132,511.79	18%	\$608,929.63	
CBRE - Appraisals	\$943,090.00	\$79,480.00	\$199,380.00	21%	\$743,710.00	
CP&Y - Survey	\$357,734.00	\$36,012.50	\$130,063.00	36%	\$227,671.00	
RW Harden - WDH Const Admin	\$12,470.00	\$0.00	\$8,004.00	64%	\$4,466.00	
LNV - RWI	\$113,027.50	\$975.00	\$5,370.00	5%	\$107,657.50	
FNI - BPS Final	\$230,036.10	\$0.00	\$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	\$0.00	\$20,364.89	7%	\$270,298.54	
Pape-Dawson - CM&I WO#5	\$1,501,376.61	\$272,862.90	\$935,095.71	62%	\$566,280.90	
Hicks & Co - WDH Environmental	\$15,571.00	\$0.00	\$0.00	0%	\$15,571.00	
Walker Partners - WTP CA Svcs	\$1,253,702.22	\$59,074.96	\$176,138.48	14%	\$1,077,563.74	
LNV/Ardurura - RWI CA Svcs	\$340,160.00	\$3,214.50	\$14,704.50	4%	\$325,455.50	
FNI - BPS CA Svcs	\$494,734.50	\$11,729.40	\$24,075.40	5%	\$470,659.10	
CP&Y - SCADA Programming Svcs	\$821,470.94	\$58,035.00	\$153,275.54	19%	\$668,195.40	
HVJ - Materials Testing (WTP)	\$473,148.75	\$18,639.00	\$40,825.75	9%	\$432,323.00	
HVJ - Materials Testing (BPS)	\$131,259.00	\$16,437.50	\$19,173.00	15%	\$112,086.00	
HVJ - Materials Testing (Segment A)	\$730,665.00	\$0.00	\$0.00	0%	\$730,665.00	
<b>Total</b>	<b>\$14,276,321.94</b>	<b>\$1,335,640.57</b>	<b>\$3,649,888.96</b>	<b>26%</b>	<b>\$10,626,432.98</b>	

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

Approved Change Orders

Below were the approved change orders in February 2022.

<b>CHANGE ORDERS APPROVED IN FEBRUARY 2022</b>				
<b>Consultant</b>	<b>Original Authorization</b>	<b>Change Orders to Date</b>	<b>Change Order Approved this Month</b>	<b>New Total Contract Amount</b>
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	\$ -	\$ 2,250,901.96
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	\$ 148,128.00	\$ 25,000.00	\$ 1,338,549.00
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	\$ 164,682.00	\$ 56,338.00	\$ 1,802,889.00

Below were the approved change orders in March 2022.

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

<b>CHANGE ORDERS APPROVED IN MARCH 2022</b>				
<b>Consultant</b>	<b>Original Authorization</b>	<b>Change Orders to Date</b>	<b>Change Order Approved this Month</b>	<b>New Total Contract Amount</b>
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	\$ 418,373.96	\$ 166,936.00	\$ 2,417,837.96
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	\$ 148,128.00	\$ -	\$ 1,338,549.00
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	\$ 164,682.00	\$ -	\$ 1,802,889.00

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

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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.
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Background/Information

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

**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

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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**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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

**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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**REGULAR MEETING**  
**Alliance Regional Water Authority Technical Committee**

**COMMITTEE MEMBER PACKETS**

Wednesday, April 13th, 2022 at 3:00 P.M.

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**J. ADJOURNMENT**

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