

**Alliance Regional Water Authority
Technical Committee**

REGULAR MEETING



ALLIANCE WATER

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 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, February 9th, 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, February 9, 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 February 9, 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 January 12, 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 Possible recommendation to the Board to approve work orders with Blanton & Associates for additional environmental work on the Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*
- F.4 Update, discussion and possible direction to Staff regarding the Authority's Phase 1B Cost and Schedule Updates. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
- F.5 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*
- 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. ~ *Graham Moore, P.E., Executive Director* ~ *Graham Moore, P.E., Executive Director*
- 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. ~ *Graham Moore, P.E., Executive Director*
- F.8 Discussion and possible recommendation to the Board for the Authority to join the Texas 811 system. ~ *Graham Moore, P.E., Executive Director*
- 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. ~ *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.

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COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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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*

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

REGULAR MEETING
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COMMITTEE MEMBER PACKETS

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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 January 12, 2022. ~ *Graham Moore, P.E., Executive Director*

Attachment(s)

- 2022 01 12 Technical Committee Meeting Minutes

Technical Committee decision needed:

- Approval of minutes.



Alliance Regional Water Authority

TECHNICAL COMMITTEE MEETING

MINUTES

Wednesday, January 12, 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, January 12, 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. Neffendorf.

B. ROLL CALL.

- **Present: Neffendorf, Earp, Kite, Ramos, Franke and Samford.**
- **Absent: 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. Samford, seconded by Mr. Franke and approved on a 6-0 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.**
 - **Mr. Samford inquired what outreach is being done for the pipeline project.**
 - **Mr. Noe stated that all landowners with property owners are being contacted and given a point-of-contact.**
 - **Mr. Taggart requested that updates on the status of the schedule of the electrical substation be added.**
 - **Mr. Moore stated that this will be added to future updates.**
 - **Mr. Ramos requested a list or chart of the consultants and contractors.**
 - **Mr. Moore stated that something will be developed for this.**
 - **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.**
 - **No Action.**
- 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.
- **Mr. Taggart noted that the new tank being added as part of the improvements in a treated water tank, not a raw water tank as indicated in the packet.**
 - **Motion to recommend to the Board approval of the Interlocal Agreement with the City of San Marcos for the San Marcos Regional Water Treatment Plant and Blanco Vista Storage Tank Improvements was made by Mr. Samford, seconded by Mr. Ramos and approved on a 6-0 vote.**
- 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.
- **Mr. Moore provided an update on the review of the work order.**
 - **Mr. Earp suggested that the subcommittee that reviewed the proposal in detail review the revised proposal.**

- **Mr. Samford asked that the Board be provided the percentage of program costs that were used in the budgeting process.**
- **No Action.**

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.

Logos

- **Mr. Samford felt that the logos will not cause additional confusion.**
- **Mr. Ramos suggested that if logos from other partners or entities are allowed, that a policy be developed.**
- **Mr. Kite noted that it can be expensive to maintain logos.**
- **Ms. Franke noted that Crystal Clear recently elected not to utilize logos on a tank due to its proximity to a new development.**
- **Mr. Neffendorf noted that the Phase 1A storage tank does not have a logo.**

Segment D Capacity

- **Ms. Franke indicated that Crystal Clear SUD would be interested in seeing Segment D get more capacity.**
- **Mr. Earp noted that it is difficult to justify given the current budget situation.**
- **Mr. Neffendorf suggested that the pressure class change be bid as an alternate so that the true cost can be determined.**
- **Mr. Ramos asked if any other segments could also have increased capacity with small changes in pressure class.**
- **Mr. Neffendorf asked what the benefits are to the timing of a second pipeline versus the additional capacity in this phase.**
- **Mr. Taggart asked how much the operational pressure will increase.**

Personnel Temporarily Live on ARWA Property

- **Mr. Samford noted that it should be limited to construction personnel only, no family or friends.**
- **Mr. Earp noted that he sees it as a land lease to the contractor, not directly to any individuals.**
- **Mr. Gershon noted that an agreement could be structured like those for man camps.**

- **Direction was provided to Staff on the three items noted above.**

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.

- **Mr. Moore provided updates.**
- **No Action.**

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 4:42 p.m. by Mr. Neffendorf.**

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 – February 9, 2022

Technical Committee Decisions Needed:

- None.



PHASE 1B CONSTRUCTION UPDATE

TECHNICAL COMMITTEE MEETING

CMI Progress

February 9, 2021

Water Resources | Transportation | Land Development | Surveying | Environmental



Water Treatment Plant / Raw Water Infrastructure (Archer Western / Walker Partners)



Construction Status

- Flow EQ Basin walls have been completed
- Recycle Pump Station walls are being formed and placed
- Clearwell foundation complete, inlet/outlet piping installed
- Raw Water Tanks sub grade complete, select fill being placed, inlet/outlet piping installed
- Filter Complex excavation for piping trenches and footings in progress
- Site grading and excavation north of Filter Complex Building
- Alterman continued to tie duct bank conduit and reinforcing steel cages
- Construction crew headcount up to 16

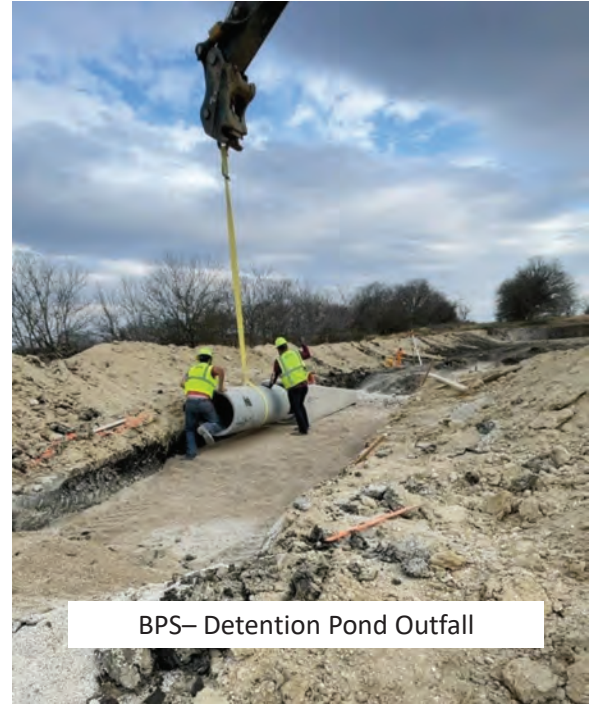


WTP/RWI – Clearwell Leveling Base

Booster Pump Station (MWH / Friese and Nichols)

Construction Status

- Power and Internet connected to office trailers
- Ground Storage Tank select fill being placed
- Detention pond berms, swales, and trickle channel construction in progress
- Reviewed and provided comments to HVJ testing proposal



BPS– Detention Pond Outfall

Segment A (Garney Construction / LAN)

Construction Status

- Began landowner notification
- Began placing access gates and locks
- Began easement survey and staking
- Began clearing
- Conducted site visit to Parcel 0035C to determine if trees can be preserved
- Reviewed and provided comments to HVJ testing proposal
- Conducting WOUS documentation
- Began field observation reporting



Seg A – Access Gate Installation

Segment B (Garney Construction / K Friese)

Construction Status

- Agreement executed, awaiting NTP approval from TWDB



OVERSIGHT RECAP

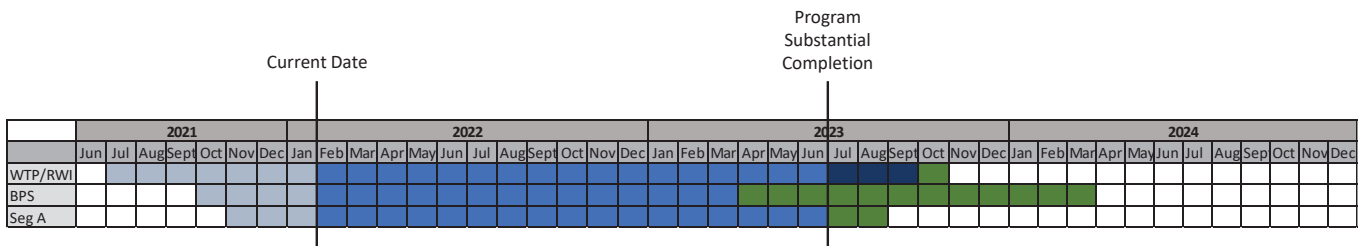
PROJECT	RFIs		Submittals		Test Reports	
	This Period	To Date	This Period	To Date	This Period	To Date
WTP/RWI	8	40	14	143	43	82
BPS	6	11	19	41	23	45
Seg A	4	7	3	9		

CONTRACT VALUES

PROJECT	CONTRACT VALUE	BILLED TO DATE	REMAINING	% COMPLETE
WTP/RWI	\$54,599,281.00	\$5,124,697.30	\$49,474,583.70	9.39%
BPS	\$19,759,331.00	\$1,437,902.00	\$18,321,429.00	7.28%
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%

7

SCHEDULE DURATIONS



Project	Contract Dates				Program Sub Completion Status
	Notice to Proceed	Original Sub Completion	Current Sub Completion	Final Completion	
WTP/RWI	7/16/2021	7/16/2023	9/3/2023	11/2/2023	Behind 9 wks
BPS	10/25/2021		3/19/2023	3/18/2024	On Time
Seg A	11/16/2021		6/9/2023	8/8/2023	On Time

8

PROGRESS PHOTOS



WTP/RWI – Recycle Pump Station



WTP/RWI – Tank Piping Encasement



WTP/RWI – Clearwell Leveling Base

9

PROGRESS PHOTOS



WTP/RWI – Filter Complex
Excavation



WTP/RWI – Flow EQ Basin Walls



BPS – Ground Storage Tank Base

10

PROGRESS PHOTOS



BPS – Detention Pond Trickle Channel



BPS – Grading Swale #1



Seg A – LOC Fencing

11

QUESTIONS?

12

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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 – February 9, 2022
- Kimley-Horn Monthly Summary of Activities for January 2022

Technical Committee Decisions Needed:

- None.



Phase 1B Program Update

Technical Committee Meeting
February 9, 2022



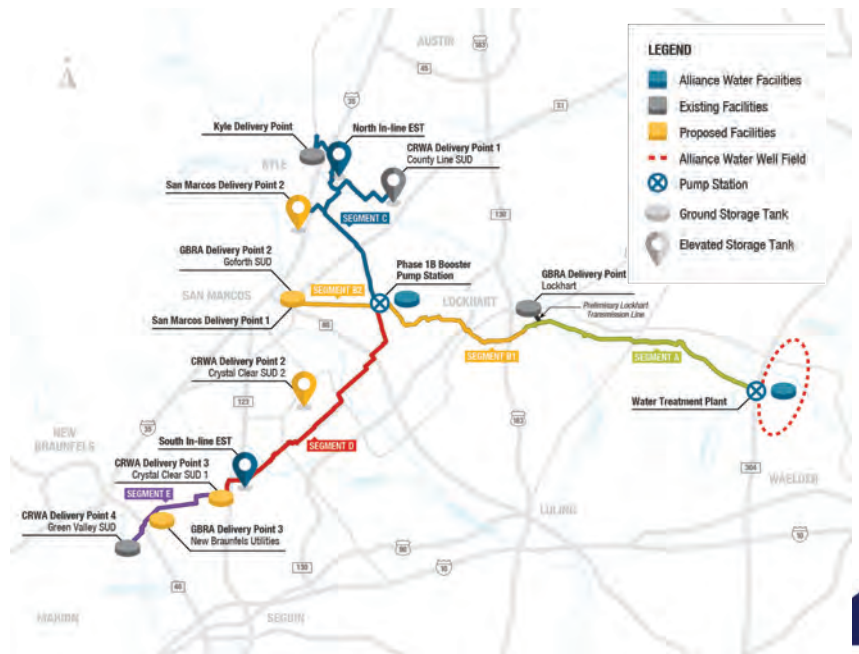
ALLIANCE WATER

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

Ongoing Progress

► Design Milestone Status

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



Permitting Update

▶ Permitting Entities Include:

- Cities
 - ARWA Sponsors
 - Multiple Others
- Counties
 - Caldwell, Guadalupe, Hays
- Utilities
 - LCRA
 - GBRA
 - Oil & Gas Transmission
 - Franchise
- Others
 - TxDOT
 - Union Pacific Railroad
 - Conservation Districts
 - General Land Office

▶ Owner's Representative Roles:

- For Some Entities
 - Coordination Lead
 - Permit Submittal Assembly
- Monitor Design Consultant Progress
 - Permit Log Review
 - Anticipated Durations of Reviews
 - Owner vs Contractor Permits
- Track Expiration Dates



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	2	2	50
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						133	146



February 03, 2022

Project Monthly Summary

January 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 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, 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
 - Coordinated with Ardurra to transfer Phase 1A GIS WebMap Data and incorporated 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.
 - Monthly progress meeting and ongoing coordination with Program Environmental Consultant.

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

- 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.
 - Revised the Pipeline Construction Standards based on 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
 - Continued coordination with Design Consultant for final design and preparation for procurement.

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

- 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
 - 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

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

February 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
 - Prepare and present the monthly Budget Update for the February Board meeting.
 - Continue updates to Budget Workbook to include monthly tracking of actual costs for ARWA review.

- Task 4 – Schedule
 - Prepare and present the quarterly Schedule Update for the February Board meeting.
 - 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 transfer GIS WebMap to prepare for construction data collection.
 - 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 D cultural report prepared by the Environmental Consultant.
 - 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.

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

- 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.
- 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

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

- Continue coordination with Design Consultant for final design.
 - 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
 - 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.

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

- 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.
 - 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, February 9th, 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 work orders with Blanton & Associates for additional environmental work on the Phase 1B Program. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Staff and the Owner's Representative team have negotiated two different work orders with Blanton & Associates for what is expected to be the final environmental investigation work on the Phase 1B Program.

Work Order #10 deals with comments from the Corps of Engineers on previous work conducted and changes to the Waters of the US that were recently adopted by the Corps of Engineers that requires investigation of additional water crossings for Segments C, D and E. The work includes additional mobilizations for field investigation, revised reports and agency coordination and project management.

Work Order #11 deals with relocation of human remains found in Segment E investigation. Blanton recently wrapped up this field work and located two burials that must be relocated out of the easement area. The attached work order deals with the environmental aspects and reporting only. The work includes coordination with the Texas Historical Commission and with the District Court along with the actual relocation field work.

Below are some of the key facts regarding the proposals:

	Work Order #10	Work Order #11
Firm:	Blanton & Associates, Inc.	Blanton & Associates, Inc.
Fee:	\$381,418	\$79,915
Work Order Type:	Hourly, Not-to-Exceed	Hourly, Not-to-Exceed
Duration:	Thru 12/2022	Thru 12/2022
Project Manager:	Velma Danielson	Velma Danielson

The Environmental services currently exceeds the budgeted amount. However when all consultant services are considered (engineering, environmental and surveying) the total for consultants is expected to be approximately \$2 million below budget.

Attachment(s)

- Blanton Work Order #10
- Blanton Work Order #11

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

Technical Committee Decision(s) Needed:

- Consider recommendation to the Board to approve work orders. for additional Environmental Services on the Authority's Phase 1B Program.

Blanton & Associates, Inc. - Environmental Scope for Alliance Water Phase 1B Program

**Pursuant to Master Services Agreement Between Alliance Regional Water Authority and
Blanton & Associates, Inc., Dated May 23, 2018**

Work Order No. 010

January 27, 2022

WORK ORDER NO. 010 - DEFINITION AND BACKGROUND

The Environmental Consultant (B&A) was given notice to commence work on Work Order No. 001 (dated May 17, 2018) on June 11, 2018, and work on the project has proceeded as authorized. Recently, the U.S. Army Corps of Engineers (USACE) submitted comments on the draft cultural resources survey report for Segment D and the Navigable Waters Protection Rule (NWPR) was vacated, such that it no longer applies to Segments C, D, and E. As a result of these developments, the schedules to complete environmental work on these three segments have been delayed. The Owner's Representative requested B&A prepare this Work Order No. 010 to address the following:

1. An additional twelve months (January – December 2022) of project management efforts due to the added time to complete the project.
2. Additional cultural resources field work, USACE coordination, and report revisions related to parcels C009, C010, C012, D021, D023, and D024 resulting from USACE comments requesting additional shovel tests to delineate sites. This additional work was authorized by Graham Moore on July 17, 2021.
3. Additional work related to the NWPR being vacated. This work includes: 1) desktop review, including significant nexus research, of stream crossings and other potential waters of the U.S. (WOTUS) along Segments C, D, and E; 2) cultural resources review and surveys of impacted WOTUS crossings along Segments C and D conducted to comply with USACE comments on the draft Segment D Cultural Resources Survey Report v2 as described in item 3 above; 3) USACE and Texas Historical Commission (THC) coordination and 4) revising the Segment C, D, and E waters reports and USACE coordination letter and attachments, and Segments C and D cultural resources survey reports. This assumes no WOTUS will be impacted on Segment E.

Some of the services addressed in Work Order No, 010 have already been provided as authorized by Alliance Water on July 7th, and as reflected in notes from the August 27th, September 30th, and October 29th monthly meetings between the Owner's Rep and the environmental consultant. B&A agreed to proceed with completing this work prior to having an approved work order in place to ensure the project kept moving forward. and the Owners' Rep. Work Order No. 010 consists of this Scope of Work (SOW) document and the associated costs provided in the attached Level of Effort (LOE) spreadsheet.

In this Environmental Consultant's Work Order No. 010, SOW amendments incorporate the changes indicated below (with reference to tasks and section numbers included in previously authorized work orders) and in the attached LOE spreadsheet

Compensation for all tasks that are part of Work Order No. 010 will be on a time and materials basis.

The scope items discussed in this Work Order No. 010 are additive to the tasks (with the same identifying task numbers) listed in B&A's original and previously authorized Work Orders.

SCOPE OF WORK

1. Project Management

- B&A added 12 more months in Work Order No. 010 to the contract period (January 1, 2022, through December 31, 2022) as an estimate, in response to continuing changes to the Program's schedule. The estimated schedule changes resulted from delays associated with the USACE comments on Segment D, the NWPR being vacated, and engineering design changes for Segments C and E.

Project Management

1.1. Prepare Monthly Summary Reports/Invoicing

Assumption(s) for 1.1.:

- Invoice format and due date will be the same as required in the Project Management Plan (PMP) in effect at time of Work Order No. 010 approval and will not be revised for the duration of Work Order No. 010.

1.4. Schedule Development and Monthly Updates

Assumption(s) for 1.4:

- Environmental Consultant will provide the project schedule utilizing Microsoft™ Project software for the project.
- Environmental Consultant will provide schedule updates no more than twelve times for the duration of Work Order No. 010.
- Environmental Consultant will provide abbreviated schedule updates during the monthly progress meetings.

1.5. Meetings

1.5.1. Monthly Progress Meetings with Owner's Rep Env Staff

Assumption(s) for 1.5.1:

- Attendance at these meetings will be by conference call.

1.5.2. Internal Blanton Meetings

1.5.3. Additional Meetings – Owner's Representative, Segment Engineers

Assumptions(s) for 1.5.3:

- Up to two meetings may be held with the Owner's Representative, Segment C, D and E Engineers by conference call, for a total of eight meetings.
- Up to four meetings may be held by conference call.

1.6. Deliverables

1.6.5. Meeting Notes and Agenda

Assumption(s) for 1.6.5:

- Owner's Representative's meeting notes and agenda template will be used.
- Environmental Consultant will be responsible for initial development, compilation of changes, and distribution of final meeting agendas and notes for each meeting.

3. Desktop Constraint Analysis

- #### 3.4. Complete desktop review of Segments D, C and E to assess impacts and jurisdictional waters on these segments due to the NWPR being vacated.

Assumption(s) for 3.4:

- Engineering files or other GIS data will be submitted in a georeferenced coordinates system to the Environmental Consultant. Throughout Phase 1B Program project development, engineering teams will coordinate with the Environmental Consultant in a timely manner regarding any changes to project design.
- 3.4.1. Constraints evaluation should include identifying and then a significant nexus analysis of stream crossings and other potential WOTUS along Segments C, D, and E. Specific work includes:
- 3.4.1.1. Researching potential WOTUS by means of interpreting aerial photographs and topographic maps and reviewing notes, GPS data, and photos taken during previous field events;
 - 3.4.1.2. Reviewing past research and correspondence with the USACE on Segment D;
 - 3.4.1.3. Conducting a significant nexus analysis;
 - 3.4.1.4. Coordinating with the engineers for the latest alignment, easement, and bore locations to determine which mapped potential WOTUS will be temporarily or permanently impacted. Then entering that data into our GIS system; and
 - 3.4.1.5. Cultural resource review to determine which mapped potential WOTUS will require additional archeological survey based on USACE standards for said survey, i.e., additional shovel testing and mechanical trenching.

3.5. Meetings

- 3.5.1. Team meetings with each engineering team and Owners Representative/Program Manager/Owner to troubleshoot, determine alternatives, and evaluate alignments. Anticipate up to two (2) virtual meetings per engineering team, for a total of six meetings.

Assumption(s) for 3.5.1:

- Environmental Consultant's Project Manager and Deputy Project Manager will attend each meeting and will provide meeting notes. Additional staff will also attend, as needed

3.6. Deliverables

- 3.6.1. Summary email with B&A's assessment of potential WOTUS for each segment under *Rapanos*.
- 3.6.2. Draft kmz with potential WOTUS under *Rapanos*.

Assumption(s) for 3.6:

- Environmental Consultant will generate up to three summary assessments and sets of kmz's for the deliverables listed in Task 3.6.

4. Field Surveys

4.2. Land Acquisition Coordination

4.2.1. Complete and submit Property Access Request Forms (PARFs).

4.2.2. Coordinate with landowners to arrange for property access when directed by the land acquisition agent(s).

4.2.3. Additional work required to verify right-of-entry (ROE) property specific requirements.

Assumption(s) for 4.2:

- The Owner's Rep will issue ROE and notice to proceed (NTP) to the Environmental Consultant in order to begin field work.
- Receipt of ROE will be provided to the Environmental Consultant prior to field surveys being conducted, as required by the Owner's Rep's Field Work Site Visit Protocol.
- B&A will submit PARFs to complete field work once B&A receives NTP for enough parcels to ensure efficient field crew deployment and confirms the most recent segment alignment.
- B&A will conduct this field work contingent upon receipt of the completed PARFs, and provided that the Program does not make changes to survey area requirements and landowners do not either revoke access or add last minute restrictions severely limiting B&A's ability to access these parcels or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned field work to determine whether we are able to move forward as scheduled or will need to postpone field work due to circumstances beyond either the Program's or B&A's control.

4.3 Survey Transmission lines, Administration/Operations Facility and Booster Pump Station, delivery points:

4.3.13 Conduct additional intensive archeological resources survey-phase subsurface investigations in USACE jurisdictional areas of Alliance Water's Phase 1B Program Segments C and D in response to USACE comments requiring additional shovel tests along Segment D, and USACE comments on the draft Segment D Cultural Resources Survey Report v2 regarding NWPR being vacated and additional cultural resources review and surveys of impacted WOTUS crossings along Segments C and D needed.

Assumption(s) for 4.3.13:

- USACE jurisdictional areas are defined within the area of potential effects (APE) based on applicable WOTUS under the current *Rapanos* definition. B&A followed this definition to make assessments of the jurisdictional status of mapped water features. However, only the USACE and Environmental Protection Agency (EPA) can make official jurisdictional determinations. If the USACE disagrees with B&A's WOTUS assessment, a supplemental service agreement will be requested.
- Three Seg C crossings (Concrete-lined basin/Intermittent braiding channel/Wetland adjacent to Stream-n side [extends Crossing 10], P C02f/ST C0 2 F [Porter Creek] [extends Crossing 5], and PD C01F) were not jurisdictional under NWPR but since NWPR was vacated on August 30, 2021, now are USACE jurisdictional areas not previously scoped under USACE survey requirements.
- Six Seg D crossings (OW01WD, ST 47 W D, ST D 01 Z, ST D 02 M/ STD01M, ST D 02 Z, and ST D 04 Z/ ST D 05 Z/ ST D 06 Z) were not jurisdictional under

NWPR but since NWPR was vacated on August 30, 2021, now are USACE jurisdictional areas not previously scoped under USACE survey requirements.

- Assumes reduction in the width of the project corridor within these USACE jurisdictional areas to 98 feet or less, limiting survey to 1 transect.
- Pursuant to the April 2020 revised state terrestrial archeological survey standards for near-surface deposits, B&A proposes to excavate up to 40 total additional shovel tests within newly identified USACE jurisdictional areas of Segments C and D in response to USACE comments and the NWPR vacatur.
- Pursuant to the April 2020 revised state terrestrial archeological survey standards for deeply buried deposits, portions of the newly identified USACE jurisdictional areas of Segments C and D are characterized as deep high probability areas, which would necessitate mechanical backhoe trenching. B&A will excavate 8 total additional trenches within USACE jurisdictional areas of Segments C and D in response to USACE comments and the NWPR vacatur.
- All survey work will be conducted under existing antiquities permits for each segment.
- Survey will be non-collection of artifacts.
- Identified archeological sites within the APE will be documented via a State of Texas Archeological Site Data Form, which will be submitted to the Texas Archeological Research Laboratory and a site trinomial will be obtained.
- If NRHP-eligible archeological resources are recorded during the survey and recommended for avoidance, site boundaries within the APE would be delineated and mapped for effective project design.
- All project-related archeological materials including field notes, photographs, and a copy of the final survey report shall be curated in accordance with terms and conditions of the Texas Antiquities Permit.
- Construction monitoring, NRHP testing at any site other than Sites 41CW200 or 41CW201, Mitigation/Data Recovery, and human burial excavation are not included as part of this SOW. These services would be provided as a Supplemental Service if required.
- No more than three multiple-field-day mobilizations for combined Segments C and D will be necessary to complete the field work required to respond to USACE comments and the NWPR vacatur. These mobilizations will be conducted in the manner outlined in B&A's memorandum to the Owner's Representative dated November 5, 2019.
- All potential WOTUS on Segment E will be bored. Since no temporary or permanent impacts to WOTUS will occur on Segment E, it is assumed no further field surveys will be required.
- No biological or hazardous materials field work will be required due to the NWPR being vacated.
- This does not include any additional field work that might be requested from the USACE on subsequent reviews.

4.4. Deliverables

Deliverables changed or added to the SOW:

- 4.4.1 GIS data uploads/updates including survey corridor status shapefiles and excel file with status are required to be submitted within two weeks of field survey event.
- 4.4.3 Field Checklists (required to be submitted within two weeks of field survey event) and weekly field work emails.

6. Environmental Documents and Permitting Requirements (Transmission lines, Administration/ Operations Facility and Booster Pump Station)

6.11 Revisions needed for Segment C and D cultural resources reports after additional intensive archeological survey-phase subsurface investigations in USACE jurisdictional areas of Alliance Water's Phase 1B Program Segments C, and D in response to USACE comments requiring additional shovel tests along Segment D, and USACE comments on the draft Segment D Cultural Resources Survey Report v2 regarding the NWPR being vacated and resulting in additional cultural resources review and surveys of impacted WOTUS crossings along Segments C and D (*Note: This sub-task does not include efforts related to Task 18 - (Phase II testing along Segment D, below.)*)

6.11.1 USACE and THC coordination

6.11.1.1. Meetings

Meetings with THC and USACE to discuss comments and determine next steps for waters and cultural resources, and follow-up activities

Assumption(s) for 6.11.1.1:

- Meetings will be via telephone conference. No more than two 1-hour meetings per agency.

6.11.1.2. Deliverables

6.11.1.2.1. Meeting agendas

6.11.1.2.2. Meeting notes or email summaries

6.12 Segment C, D, and E Waters Reports - Revised for USACE Clearance

6.12.1. Revise the draft jurisdictional delineation reports for water resources including anticipated jurisdiction and impacts for project. This task also includes the USACE coordination letter and required attachments.

Assumption(s) for 6.12.1:

- B&A is using the final version of *Rapanos*, which redefines WOTUS and became effective when the NWPR was vacated on August 30, 2021, to assess the jurisdictional status of mapped water features. Only the USACE and EPA can make official jurisdictional determinations. If the USACE disagrees with B&A's assessment, a supplemental service agreement will be requested.
- Should a Preconstruction Notification (PCN) be required for Segments C - E, it will be considered a supplemental service.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified.

6.12.2. Meetings

6.12.2.1. If necessary, meetings with the USACE's Project Manager will be held to determine and coordinate on next steps and to discuss questions/comments.

Assumption(s) for 6.12.2:

- Meetings will be via telephone conference. No more than ten meetings will be held with the USACE for one-hour each.

6.12.2.2. Deliverables

6.12.2.2.1. Meeting agendas

6.12.2.2.2. Meeting notes or email summaries

6.12.3 Deliverables

6.12.3.1 Revised Draft Jurisdictional Determination Reports with anticipated permitting requirements

6.12.3.2 Final Jurisdictional Determination Reports with anticipated permitting requirements

Assumption(s) for 6.12.3:

- This assumes no WOTUS will be impacted on Segment E and the USACE would only be asked for a no permit needed letter.

6.13. Segment C and D Revised Archeological Survey SOWs and Reports– Revised THC and USACE Compliance and Clearance

6.13.1 Meetings

6.13.1.1 If necessary, meetings with USACE to determine and coordinate on next steps due to areas to be re-surveyed. Meetings with the THC may also be necessary.

Assumption(s) for 6.13.1.1:

- Meetings will be via telephone conference. No more than four meetings with USACE for one-hour each, and no more than four meetings with the THC for one hour each.

6.13.1.2. Deliverables

6.13.1.2.1. Meeting agendas

6.13.1.2.2. Meeting notes or email summaries

6.13.2 Prepared revised cultural resources survey scopes of work and submit for approval by the THC and USACE.

6.13.2.1 Deliverables

6.13.2.1.1 Draft Revised Intensive Cultural Resources Survey SOW

6.13.2.2.2 Final Intensive Cultural Resources Survey SOW

Assumption(s) for 6.13.2.:

- This assumes all fieldwork will be conducted under existing antiquities permits for survey of Segments C and D.
- This assumes a revised USACE jurisdictional areas SOW will be required for further cultural survey of these areas along Segment C.
- This assumes no revision of a Segment D USACE SOW per meeting with Jimmy Barrera (USACE) November 4, 2021.
- There will be only two rounds of comments from, and coordination with, USACE to complete the Segment C cultural resources survey scope of work. Additional rounds of comments, requests for additional field work, and responses will require an additional scope and fee.
- For the draft and final scopes of work, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy

- 6.13.3 Prepare revised reports documenting field investigations, findings, and recommendations on Segment C and D. Shall be suitable for THC review and approval, and for USACE review and approval for jurisdictional areas.

Assumption(s) for 6.13.3:

- All efforts to avoid effects to identified cultural resources should be made.

6.13.4 Deliverables

6.13.4.1 Draft Revised Intensive Cultural Resources Survey Reports

6.13.4.2 Final Intensive Cultural Resources Survey Reports

Assumption(s) for 6.13.4.2:

- There will only two rounds of comments from, and coordination with, USACE to complete the cultural resources survey reports. Additional rounds of comments and responses will require an additional scope and fee.
- The draft cultural resources survey report will only be revised twice, with the final report being generated as the revised report. Additional drafts will require an additional scope and fee.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy.

7. Supplemental Services

7.6 Re-Alignment and Limited Alignment/Parcel Field Work Requests from Owner's Representative

- 7.6.2 Field Work – B&A anticipates that additional field surveys based upon re-alignments to segments received from design engineers based upon adjustments needed regarding potential WOTUS stream crossings and/or environmental reports are/were submitted to agencies for review and approval.

No more than ten re-alignment field survey mobilizations for ten individual parcels (i.e., beyond the protocol outlined in B&A's memorandum dated November 5, 2019) will be requested by the Owner's Representative. Additional requests beyond this number may result in an amendment to this Work Order scope and fee.

- 7.6.3 Reporting – B&A anticipates that revisions to the environmental reports may be requested after the draft environmental reports have been submitted to the Owner's Representative for review and comment. No more than eight report revisions as follows are included in this SOW and fee: one each for the Segment C, D and E waters reports; one each for the Segment C, D and E cultural resources reports; and one each for the Segment C and E protected species reports. Additional revisions beyond this number may result in an amendment to this Work Order scope and fee.

Assumption(s) for 7.6:

- The Owner's Representative and/or the design engineers will continue to request B&A conduct field surveys on certain areas for the purposes of evaluating pipeline re-alignment parcels that will add field mobilizations scope and costs beyond those included in B&A's Task 7.6.1.
- B&A assumes these requests will continue for the duration of the project in the same manner that they occurred in 2021 related to B&A's work on Task 7.6.1. As such, any

requests for re-alignment on parcels where B&A has already completed field work and/or environmental reports were submitted.

- Additional re-alignment field work beyond that required for these ten re-alignment parcels noted in this work order will be included in a subsequent scope and fee.

WORK ORDER NO. 008 FOR PROFESSIONAL SERVICES
TASK 7 – SUPPLEMENTAL SERVICES
RE-ALIGNMENT AND LIMITED ALIGNMENT/PARCEL FIELD WORK & REPORTING
SEGMENTS C, D, E
ALLIANCE WATER PROPOSED TRANSMISSION PIPELINE

This Work Order constitutes authorization by **Blanton & Associates, Inc.** (otherwise referred to as Client or B&A) for **Braun Intertec Corporation** (Braun Intertec, otherwise referred to as Consultant) to provide additional environmental services for the proposed Alliance Regional Water Authority (Alliance Water) water transmission pipeline in central Texas. Braun Intertec has provided desktop constraints reviews, field reconnaissance for hazardous materials, and environmental reports related to the five proposed pipeline segments (Segments A through E) of the Alliance Water Phase 1B Program (Program).

As described below, the proposed scope of work includes additional field surveys for hazardous materials on up to 10 individual parcels within Segment C, D, and E due to anticipated re-alignments and additional environmental reporting associated with those re-alignments.

Scope of Services

1. Field Work (Task 7.6.2).

Braun Intertec anticipates that up to 10 mobilizations may be requested to conduct field surveys for hazardous materials on up to 10 individual parcels based on re-alignments to Segments C, D, and/or E received from Client. Braun Intertec field staff will observe for the presence of hazardous materials in the area of the re-alignment by foot or by vehicle. Braun Intertec will work with Client representatives to gain access to the parcels associated with the pipeline re-alignments but will not be responsible for obtaining landowner right of entry agreements or Property Access Request Forms (PARFs) for the proposed field surveys. The field survey for each parcel is assumed to take two Braun Intertec staff 4 to 8 hours to complete. Property access notifications as required by the PARF and travel are included in the estimated costs. Braun Intertec will provide Client with a field checklist, preliminary summary of findings, and GIS deliverable following completion of each mobilization.

2. Reporting (Task 7.6.3).

Braun Intertec anticipates that revisions to Hazardous Materials Assessment Reports may be requested after the draft reports have been submitted to the Client for review and comment. This task allows for the preparation of revised Hazardous Materials Assessment Reports (Revised Report) due to anticipated re-alignments on up to 10 parcels occurring after original reports have been prepared and submitted to B&A. One Revised Report for each segment (C, D, E) is anticipated. Braun Intertec will coordinate with the Client regarding due dates for the revised environmental reports associated with anticipated pipeline re-alignments.

Assumptions

Additional re-alignment field work beyond that required for these 10 re-alignment parcels noted in this Work Order will be included in a subsequent scope and fee.

Payment

The fees for these professional consulting services will be billed on a time and material basis for **\$29,951** based on the attached worksheets and fee schedule. Braun Intertec will not exceed \$29,951 in billings without prior written consent from Client. Work shall be performed under the terms and conditions set forth in the Assignment, Assumption, and Consent effective September 30, 2018.

Schedule

Braun Intertec will proceed with the proposed tasks upon receipt of written authorization and re-alignment information from the Client.

BILLING INFORMATION:

BLANTON & ASSOCIATES, INC.
5 Lakeway Centre Court, Suite 200
Austin, Texas 78734

Don Blanton
(512) 264-1095
dblanton@blantonassociates.com

Authorized:

SIGNATURE: _____

DATE: _____

REMIT PAYMENT TO:

BRAUN INTERTEC CORPORATION
Lockbox 446035
PO Box 64384
St Paul, MN 55164-0384

PIC: Diana Rader, P.G.
PCC: Trudy Hasan, P.G.
thasan@braunintertec.com
512-721-0005 Office

Accepted:

SIGNATURE: _____

DATE: _____

Braun Intertec													
Pipeline Consultant - Work Order #008 1/27/2022										Work Order #008 Summary			
Detailed Overall Env Consultant Cost Breakdown										Braun Intertec		\$	29,951
										Sub-contractor			
										Total W.O. #008		\$	29,951

Task	Project Role	Principal Consultant II	Senior Consultant II	Project Consultant III	Project Consultant I	Staff Consultant III	GIS Technician	Staff Consultant II	Staff Consultant I	Project Coordinator	Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
Hourly Bill Rate		\$250.00	\$202.00	\$165.00	\$142.00	\$125.00	\$118.00	\$105.00	\$95.00	\$93.00					
Basic Services															
7	Task 7 - Supplemental Services										222	28,726	1,225	29,951	
7.6	Re-Alignment and Limited Alignment/Parcel Field Work														
7.6.2	Field Work	5		40		40	10	80			175	22,430	1,225	23,655	See Discussion/Assumptions - Task 7.6.2 Scope of Work
7.6.3	Reporting	3		12		10	6	10		6	47	6,296		6,296	See Discussion/Assumptions - Task 7.6.3 Scope of Work
											222	28,726	1,225	29,951	

OTHER DIRECT COST				TOTAL COST
Item	Per Unit	TASK 7	TASK 7	
Lodging	\$ 120.00		\$ -	\$ -
ATV	\$ 75.00		\$ -	\$ -
GPS	\$ 100.00		\$ -	\$ -
Camera	\$ 45.00		\$ -	\$ -
Vehicle Mileage	\$ 0.585		\$ -	\$ -
Vehicle Rental	\$ 100.00	10	\$ 1,000.00	\$ 1,000.00
4X4 Vehicle Rental	\$ 125.00		\$ -	\$ -
Vehicle Fuel	\$ 30.00		\$ -	\$ -
Per Diem - Meals	\$ 45.00	5	\$ 225.00	\$ 225.00
Misc. (Tolls, Parking)	\$ 10.00		\$ -	\$ -
Field Supplies	\$ 20.00		\$ -	\$ -
Facility Rental	\$ 800.00		\$ -	\$ -
Backhoe Rental	\$ 1,000.00		\$ -	\$ -
Trackhoe Rental	\$ 2,000.00		\$ -	\$ -
Overnight Mail	\$ 40.00		\$ -	\$ -
Mail	\$ 0.50		\$ -	\$ -
Color Plot (sq.ft.)	\$ 1.50		\$ -	\$ -
Color Copies (per 8.5x11 sheet)	\$ 0.35		\$ -	\$ -
Color Copies (per 11x17 sheet)	\$ 0.50		\$ -	\$ -
Copies (per 8.5x11 sheet)	\$ 0.10		\$ -	\$ -
Copies (per 11x17 sheet)	\$ 0.10		\$ -	\$ -
Radiocarbon Dating Samples	\$ 600.00		\$ -	\$ -
Curation of Archeological Materials	\$ 230.00		\$ -	\$ -
Newspaper Ads	\$ 1,200.00		\$ -	\$ -
Archeological Site Form TARL Processing Fee	\$ 96.00		\$ -	\$ -
TOTAL OTHER DIRECT COST			\$ 1,225.00	\$ 1,225.00

Alliance Water																							Work Order #10 Summary																																				
Pipeline Consultant - Work Order #10																							Blanton	\$	381,418																																		
12/7/2022																							Sub-contractor	\$																																			
Detailed Overall Env Consultant Cost Breakdown																							Total W.O. #10	\$	381,418																																		
Task	Project Role	Principal	PM	DRM	EM Professional	Endangered Species Lead	Endangered Species Specialist	EM Tech II	EM Tech I	USACE Permit Lead	USACE Permit Specialist	EM Tech II	EM Tech I	CR Lead	CR Specialist	CR Specialist	WQB Lead	Scientist	EM Tech II - Waters	EM Tech I - Waters	Senior GIS Analyst	GIS Analyst	GIS Technician	Admin	Total Hours	Total BAA Labor Effort	Total BAA Expense Effort	W&M Labor	W&M Expense Effort	Total Sub Effort	Total Effort	Assumptions																											
Hourly Bill Rate		\$225.00	\$180.00	\$170.00	\$150.00	\$160.00	\$130.00	\$110.00	\$95.00	\$160.00	\$130.00	\$110.00	\$90.00	\$160.00	\$130.00	\$120.00	\$160.00	\$120.00	\$110.00	\$95.00	\$140.00	\$110.00	\$95.00	\$70.00																																			
Task 1 - Project Management																																																											
1.1	Prepare Monthly Summary Reports / Invoicing (12 additional months)			24	28				24																	638	65,000	-	-	-	65,000																												
1.4	Schedule Development & Monthly Updates (12 additional months)			16	12				84																	112	12,480	-	-	-	12,480	See Discussion/Assumptions - Task 1.4 Scope of Work																											
1.5 Meetings																																																											
1.5.1	Monthly Progress Meetings (12 additional months)			18	18				18																	54	7,920	-	-	-	7,920	See Discussion/Assumptions - Task 1.5.1 Scope of Work																											
1.5.2	Internal Blanton Meetings (12 additional months)			12	48	12			48	20				20								32			162	26,360	-	-	-	26,360	See Discussion/Assumptions - Task 1.5.2 Scope of Work																												
1.5.3	Additional Mtgs - Owners Rep/ Segment Engineers			8	16				16	8				8												65	8,160	-	-	-	8,160	See Discussion/Assumptions - Task 1.5.3 Scope of Work																											
1.6 Deliverables																																																											
1.6.5	Meeting Notes and Agendas			36					36																	148	19,840	-	-	-	19,840	See Discussion/Assumptions - Task 1.6.5 Scope of Work																											
Task 3 - Desktop Constraints Analysis																																																											
3	Complete desktop review of Seg D, C and E																									181	25,760	-	-	-	25,760	See Discussion/Assumptions - Task 3.4 Scope of Work																											
3.4.1.1 Researching potential WOTUS																																																											
3.4.1.2	Reviewing past research and correspondence			1	4						4									10						23	3,040	-	-	-	3,040	See Discussion/Assumptions - Task 3.4.1.1 Scope of Work																											
3.4.1.3	Conducting a significant reus analysis			1	4						4									20						33	4,140	-	-	-	4,140	See Discussion/Assumptions - Task 3.4.1.2 Scope of Work																											
3.4.1.4	Coordination with engineers			1	6															2						15	2,080	-	-	-	2,080	See Discussion/Assumptions - Task 3.4.1.3 Scope of Work																											
3.4.1.5	Cultural resource review			1	4										24											33	5,140	-	-	-	5,140	See Discussion/Assumptions - Task 3.4.1.5 Scope of Work																											
3.5 Meetings																																																											
3.5.1	Team meetings with each eng team & CPY			9	12						4																25	4,300	-	-	-	4,300	See Discussion/Assumptions - Task 3.5.1 Scope of Work																										
3.6 Deliverables																																																											
3.6.1	Summary email with BAA's assessment			3	6										6												18	2,850	-	-	-	2,850	See Discussion/Assumptions - Task 3.6.1 Scope of Work																										
3.6.2	Draft ltr w/ potential WOTUS				3															6						19	2,270	-	-	-	2,270	See Discussion/Assumptions - Task 3.6.2 Scope of Work																											
Task 4 - Field surveys																																																											
4.2	User Acquisition Coordination																									594	74,360	5,497	-	-	-	79,857																											
4.2.1 User Acquisition Coordination																																																											
4.2.1	Complete and submit property access request forms				6				20																		42	4,580	-	-	-	4,580	See Discussion/Assumptions - Task 4.2.1 Scope of Work																										
4.2.2	Coordinate with landowners				6				24																		30	3,180	-	-	-	3,180	See Discussion/Assumptions - Task 4.2.2 Scope of Work																										
4.2.3	Additional work required to verify ROE				6				30																		36	3,720	-	-	-	3,720	See Discussion/Assumptions - Task 4.2.3 Scope of Work																										
4.3	Survey Transmission Lines, Administration/Operations Facility and Booster Pump Station, deliver points																																																										
4.3.13	Conduct additional intensive archeological resources survey															80	208	106									16	4	414	54,600	5,497	-	-	60,097	See Discussion/Assumptions - Task 4.3.13 Scope of Work																								
4.4 Deliverables																																																											
4.4.1	GIS data uploads / updates			2	6				16																			48	5,460	-	-	-	5,460	See Discussion/Assumptions - Task 4.4.1 Scope of Work																									
4.4.3	Field Checklists			2	6				16																			24	2,820	-	-	-	2,820	See Discussion/Assumptions - Task 4.4.3 Scope of Work																									
Task 6 - Environmental Documents and Permitting Requirements																																																											
6.11	Reviews needed for Segment C & D CR reports																																																										
6.11.1	USACE and THD coordination																																																										
6.11.1.1	Meetings			2	2																						6	1,020	-	-	-	1,020	See Discussion/Assumptions - Task 6.11.1.1 Scope of Work																										
6.11.1.2 Deliverables																																																											
6.11.1.2.1	Meeting agendas				3																							9	1,470	-	-	-	1,470	See Discussion/Assumptions - Task 6.11.1.2.1 Scope of Work																									
6.11.1.2.2	Meeting notes or email summaries				3																							9	1,470	-	-	-	1,470	See Discussion/Assumptions - Task 6.11.1.2.2 Scope of Work																									
6.12 Segment C, D and E Waters Reports																																																											
6.12.1	Review the draft jurisdictional delineation reports				24																78							135	16,380	-	-	-	16,380	See Discussion/Assumptions - Task 6.12.1 Scope of Work																									
6.12.2 Meetings																																																											
6.12.2.1	Meetings w/ the USACE's project manager			10	10																							34	5,240	-	-	-	5,240	See Discussion/Assumptions - Task 6.12.2.1 Scope of Work																									
6.12.2.2 Deliverables																																																											
6.12.2.2.1	Meeting agendas			1	5																5							11	1,580	-	-	-	1,580	See Discussion/Assumptions - Task 6.12.2.2.1 Scope of Work																									
6.12.2.2.2	Meeting notes or email summaries			1	5																							11	1,580	-	-	-	1,580	See Discussion/Assumptions - Task 6.12.2.2.2 Scope of Work																									
6.12.3 Deliverables																																																											
6.12.3.1	Revised draft jurisdictional determination reports			6	9	9					4										21							9	71	9,060	-	-	-	9,060	See Discussion/Assumptions - Task 6.12.3.1 Scope of Work																								
6.12.3.2	Final jurisdictional delineation reports			3	12	6																						6	63	7,950	-	-	-	7,950	See Discussion/Assumptions - Task 6.12.3.2 Scope of Work																								
6.13 Segment C and D Revised Archeological Survey SOWs and reports																																																											
6.13.1 Meetings																																																											
6.13.1.1	If necessary, meetings w/ the USACE			4	8																																																						
6.13.1.2 Deliverables																																																											
6.13.1.2.1	Meeting agendas				10																																																						

OTHER DIRECT COST		# OF UNITS					COST BY TASK						TOTAL COST
Item	Per Unit	TASK 1	TASK 3	TASK 4	TASK 6	TASK 7	TASK 1	TASK 3	TASK 4	TASK 6	TASK 7	TASK 7	
Lodging	\$ 120.00				3		\$ -	\$ -	\$ 360.00	\$ -	\$ -	\$ -	\$ 360.00
ATV	\$ 75.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GPS	\$ 100.00			10		21	\$ -	\$ -	\$ 1,000.00	\$ -	\$ 2,100.00	\$ -	\$ 3,100.00
Camera	\$ 45.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Mileage	\$ 0.58						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Rental	\$ 100.00			6		10	\$ -	\$ -	\$ 600.00	\$ -	\$ 1,000.00	\$ -	\$ 1,600.00
4X4 Vehicle Rental	\$ 125.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Vehicle Fuel	\$ 30.00			7		5	\$ -	\$ -	\$ 210.00	\$ -	\$ 150.00	\$ -	\$ 360.00
Per Diem - Meals	\$ 45.00			3			\$ -	\$ -	\$ 135.00	\$ -	\$ -	\$ -	\$ 135.00
Misc. (Tolls, Parking)	\$ 10.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Field Supplies	\$ 20.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Facility Rental	\$ 800.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Backhoe Rental	\$ 1,000.00			3			\$ -	\$ -	\$ 3,000.00	\$ -	\$ -	\$ -	\$ 3,000.00
Trackhoe Rental	\$ 2,000.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Overnight Mail	\$ 40.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Mail	\$ 0.50						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Color Plot (sq.ft.)	\$ 1.50						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Color Copies (per 8.5x11 sheet)	\$ 0.35						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Color Copies (per 11x17 sheet)	\$ 0.50						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Copies (per 8.5x11 sheet)	\$ 0.10						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Copies (per 11x17 sheet)	\$ 0.10						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Radiocarbon Dating Samples	\$ 600.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Curation of Archeological Materials	\$ 230.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Newspaper Ads	\$ 1,200.00						\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Archeological Site Form TARL Processing Fee	\$ 96.00			2			\$ -	\$ -	\$ 192.00	\$ -	\$ -	\$ -	\$ 192.00
TOTAL OTHER DIRECT COST							\$ -	\$ -	\$ 5,497.00	\$ -	\$ 3,250.00	\$ -	\$ 8,747.00

Blanton & Associates, Inc. - Environmental Scope for Alliance Water Phase 1B Program**Pursuant to Master Services Agreement Between Alliance Regional Water Authority and
Blanton & Associates, Inc., Dated May 23, 2018****Work Order No. 011****January 27, 2022****WORK ORDER NO. 011 - DEFINITION AND BACKGROUND**

The Environmental Consultant (B&A) was given notice to commence work on Work Order No. 001 (dated May 17, 2018) on June 11, 2018, and work on the project has proceeded as authorized. In response to B&A's identification of two human burials on Parcel E010 through work authorized under Work Order No. 009, the Owner's Representative requested B&A prepare this Work Order No. 011 to address the relocation of this partial cemetery.

Work Order No. 011 consists of this Scope of Work (SOW) document and the associated costs provided in the attached Level of Effort (LOE) spreadsheet. In this Environmental Consultant's Work Order No. 011, SOW amendments incorporate the changes indicated below (with reference to tasks and section numbers included in previously authorized work orders) and in the attached LOE spreadsheet.

Compensation for all tasks that are part of Work Order No. 011 will be on a time and materials basis. The scope items discussed in this Work Order No. 011 are additive to the tasks (with the same identifying task numbers) listed in B&A's original and previously authorized Work Orders.

SCOPE OF WORK

19. Parcel E010 Cemetery Relocation

19.1. Project Management

Assumption(s) for 19.1:

- This SOW presumes that the work on this task will be completed within the time period of January 27, 2022, through December 31, 2022. Therefore, general project management services related to this task are included in Work Order No. 010. If this task extends beyond December 31, 2022, that extended timeframe would result in additional project management services scope and fee. Specific project management activities related to this new task are included in the SOW below.

19.1.1. Meetings

19.1.1.1. Monthly Progress Meetings with Owner's Rep Env Staff

Assumption(s) for 19.1.1.1:

- Attendance at these meetings will be by conference call.
- An item related to Task 19 will be added to the monthly progress meeting agenda for the duration of work on Task 19.

19.1.1.2. Additional Meetings – Owner’s Representative, Segment E Engineers

Assumptions(s) for 19.1.1.2:

- Up to two meetings may be held with the Owner’s Representative or the Program by conference call.

19.1.1.3. Internal Environmental Consultant Team Meetings

Assumptions(s) for 19.1.1.3:

- Up to four meetings may be held by conference call.

19.1.1.4 Additional Meetings – Alliance Legal Counsel

Assumption(s) for 19.1.1.4:

- B&A assumes two meetings (conference calls) with Alliance’s legal counsel to provide information.

19.1.1.5 Additional Meetings — THC

Assumption(s) for 19.1.1.5:

- B&A assumes two meetings (conference calls) with THC to provide information.

19.1.2. Deliverables

19.1.2.1 Meeting Agenda and Notes/Summary

Assumption(s) for 19.1.2.1:

- Owner’s Representative’s meeting notes template will be used.
- Environmental Consultant will be responsible for initial development, compilation of changes, and distribution of final meeting notes for each meeting.

19.2 District Court Coordination

19.2.1 Alliance legal counsel coordination

Assumption(s) for 19.2.1:

- B&A will not be coordinating filing of a Petition to Abate/Cemetery Dedication Removal with the district court.
- If requested, B&A will provide information and advisory coordination to Alliance’s legal counsel.
- Up to two meetings may be held by conference call.
- Up to two responses to emailed requests for information.

19.2.2 THC Coordination

Assumption(s) for 19.2.2:

- If requested, B&A will provide information to the THC in conjunction with the filing of a Petition to Abate/Cemetery Dedication Removal with the district court.
- Up to two responses to emailed requests for information.

19.2.3 Disinterment Permits

Assumption(s) for 19.2.3:

- After the Petition to Abate/Cemetery Dedication Removal is granted by the district court, B&A will file two disinterment permit applications with the State Registrar.

19.3 Texas Antiquities Permit

19.3.1 Texas Antiquities Permit and SOW

Assumption(s) for 19.3.1:

- As this project is subject to compliance with the Texas Antiquities Code, an antiquities permit for burial exhumation as defined in 13 TAC 26.15 will be required.

19.3.2 THC Coordination

Assumption(s) for 19.3.2:

- If requested, B&A will provide information to the THC in conjunction with review of the antiquities permit and SOW.
- Up to two responses to emailed requests for information.

19.3.3 Deliverables

19.3.3.1 Draft TAC Permit and SOW

19.3.3.2 Final TAC Permit and SOW

19.4. Cemetery Relocation Field Work

19.4.1. Land Acquisition Coordination

19.4.1.1. Complete and submit PARF.

19.4.1.2. Coordinate with landowner to arrange for property access when directed by the land acquisition agent(s).

19.4.1.3. Additional work required to verify ROE property specific requirements.

Assumption(s) for 19.4.1:

- The Owner's Rep will issue ROE and NTP to the Environmental Consultant in order to begin field work.
- Receipt of ROE will be provided to the Environmental Consultant prior to field work being conducted, as required by the Owner's Rep's Field Work Site Visit Protocol.
- B&A will submit PARF to complete field work once B&A receives NTP to ensure efficient field crew deployment.
- B&A will conduct this field work contingent upon receipt of the completed PARF, and provided that landowner does not either revoke access or add last minute restrictions severely limiting B&A's ability to access the parcel or prohibiting B&A from conducting planned field work within the two-week PARF window. Should these issues arise, B&A will assess any impacts to planned field work to determine whether we are able to move forward as scheduled or will need to postpone field work due to circumstances beyond either the Program's or B&A's control.

19.4.2. Cemetery Relocation

Assumption(s) for 19.4.2:

- All cemetery relocation field work will be conducted under a new antiquities permit.
- Assumes mechanical scraping, hand excavation of two unmarked human graves, and mechanical backfilling will be required.

- The services of a physical anthropologist may be required per 13 TAC 22.5 (c)(2). If needed, these services will be subcontracted.
- B&A will maintain temporary custody of the human remains and associated funerary objects for secure storage at B&A's archeology laboratory in Austin, Texas.
- Relocation/reburial will be carried out by a licensed professional funeral director or other appropriate designee per Texas law. B&A will coordinate only custodial handover of the human remains and associated funerary objects to said individual for purposes of reinterment.
- B&A will attend the reburial to document the event to be included in the cemetery relocation report.
- Construction monitoring is not included as part of this SOW. These services would be provided as a Supplemental Service if required.

19.4.3. Deliverables

- 19.4.3.1 Field Checklists (required to be submitted within two weeks of field survey event) and weekly field work email.

19.5 Cemetery Relocation Reporting

- 19.5.1. Prepare cemetery relocation report documenting field investigations, findings, and documentation of reburial. Shall be suitable for THC review and approval.

Assumption(s) for 19.5.1:

- Exhumations and relocations will be documented in report for submittal to the THC per antiquities permit terms and conditions.
- Per 13 TAC 22, casket morphology, casket hardware, and any funerary objects will be examined and identified in the report.
- Findings of the physical anthropologist will be included in the draft report.
- All project-related archeological materials including field notes, photographs, and a copy of the final cemetery relocation report shall be curated in accordance with terms and conditions of the Texas Antiquities Permit.
- A site revisit form for the cemetery will be submitted to Texas Archeological Research Laboratory in accordance with state protocols.

19.5.2. Deliverables

Assumption(s) for 19.5.2:

- There will only be one round of comments from, and coordination with, the THC to complete the report. Additional rounds of comments and responses will require an additional scope and fee.
- The draft report will only be revised once, with the final report being generated as the revised report. Additional drafts will require an additional scope and fee.
- For the draft and final reports, Environmental Consultant will provide one PDF copy in searchable Adobe Acrobat™ (.pdf) format, unless another format is specified. Each electronic deliverable will be a single, searchable .pdf file that mirrors the layout and appearance of the hard copy.

19.5.2.1 Draft Cemetery Relocation Report

19.5.2.2 Final Cemetery Relocation Report

Alliance Regional Water Authority - Work Order #11

Prepared: January 27, 2022

Detailed Overall Env Consultant Cost Breakdown

Project Fee Summary

	\$	79,915
Total Effort	\$	79,915

Task #	Project Role	Principal	PM	DPM	TPD (Jason)	ENV Professional	Endangered Species Lead	Endangered Species Scientist	ENV Tech II	ENV Tech I	USACE Permit Lead	USACE Permit Scientist I	ENV Tech II	ENV Tech I	CR Lead	CR Scientist II	CR Scientist I	TWDB Lead	Scientist I	Env Tech II - Waters	Env Tech I - Waters	Senior GIS Analyst	GIS Analyst	GIS Technician	Admin	Total Hours	Total B&A Labor Effort	Total B&A Expense Effort	Total Effort	Assumptions																																	
Hourly Bill Rate	\$225.00	\$180.00	\$170.00	\$160.00	\$150.00	\$160.00	\$130.00	\$110.00	\$90.00	\$160.00	\$130.00	\$120.00	\$160.00	\$120.00	\$110.00	\$90.00	\$140.00	\$110.00	\$95.00	\$70.00																																											
Task 19 - Parcel E010 Cemetary Relocation																																																															
19.1	Project management, schedule and meetings for the NEPA process																																																														
19.1.1	Meetings																																																														
19.1.1.1	Monthly Progress Meetings w/ Owners Rep Env Staff																																								4																						
19.1.1.2	Additional Meetings - Owners Rep, Segment E Engineers																																2	2								2																					
19.1.1.3	Internal Environmental Consultant Team Meetings																																2	4								4																					
19.1.1.4	Additional Meetings - Alliance Legal Counsel																																2									2																					
19.1.1.5	Additional Meetings - THC																																2	2								2																					
19.1.2	Deliverables																																																														
19.1.2.1	Meeting Agenda and Notes/Summary																																2	4								6																					
19.2	District Court Coordination																																																														
19.2.1	Alliance legal counsel coordination																																								8																						
19.2.2	THC Coordination																																								4																						
19.2.3	Disinterment Permits																																1	2		4						8																					
19.3	Texas Antiquities Permit																																																														
19.3.1	Texas Antiquities Permit and SOW																																2	4		6						32																					
19.3.2	THC Coordination																																1	2							4																						
19.3.3	Deliverables																																																														
19.3.3.1	Draft TAC Permit and SOW																																1	2		4					8																						
19.3.3.2	Final TAC Permit and SOW																																1	1		2					4											2											
19.4	Cemetery Relocation Field Work																																																														
19.4.1	Land Acquisition Coordination																																																														
19.4.1.1	Complete and submit PARF																																1	1																													
19.4.1.2	Coordinate with landowner for property access																																1	1																													
19.4.1.3	Additional work required to verify ROE																																1	1																													
19.4.2	Cemetery Relocation																																2	4								32	50	40						4													
19.4.3	Deliverables																																																														
19.4.3.1	Field Checklists																																	1																													
19.5	Cemetery Relocation Reporting																																																														
19.5.1	Prepare Cemetery Relocation Report																																2	4		6						60	36								2	13	6										
19.5.2	Deliverables																																																														
19.5.2.1	Draft Cemetery Relocation Report																																2	4		6						8											2	2									
19.5.2.2	Final Cemetery Relocation Report																																1	2		2						8											2	2									

OTHER DIRECT COST			# OF UNITS	COST BY TASK		TOTAL COST
Item	Unit	Per Unit	TASK 19	TASK 19		
Lodging	daily	\$ 120.00	7	\$ 840.00	\$	840.00
ATV	daily	\$ 75.00		\$ -	\$	-
GPS	daily	\$ 100.00		\$ -	\$	-
Camera	daily	\$ 45.00	5	\$ 225.00	\$	225.00
Vehicle Mileage	per mile	\$ 0.58	250	\$ 143.75	\$	143.75
Vehicle Rental	daily	\$ 100.00		\$ -	\$	-
4X4 Vehicle Rental	daily	\$ 125.00		\$ -	\$	-
Vehicle Fuel	daily	\$ 30.00	3	\$ 90.00	\$	90.00
Per Diem - Meals	daily	\$ 45.00	7	\$ 315.00	\$	315.00
Misc. (Tolls, Parking)	daily	\$ 10.00	3	\$ 30.00	\$	30.00
Field Supplies	daily	\$ 20.00		\$ -	\$	-
Facility Rental	daily	\$ 800.00		\$ -	\$	-
Backhoe Rental	each	\$ 1,500.00	2	\$ 3,000.00	\$	3,000.00
Trackhoe Rental	each	\$ 2,000.00		\$ -	\$	-
Overnight Mail	each	\$ 40.00		\$ -	\$	-
Mail	piece	\$ 0.50		\$ -	\$	-
Color Plot (sq.ft.)	piece	\$ 1.50		\$ -	\$	-
Color Copies (per 8.5x11 sheet)	sheet	\$ 0.35		\$ -	\$	-
Color Copies (per 11x17 sheet)	sheet	\$ 0.50		\$ -	\$	-
Copies (per 8.5x11 sheet)	sheet	\$ 0.10		\$ -	\$	-
Copies (per 11x17 sheet)	sheet	\$ 0.10		\$ -	\$	-
Court Report	each	\$ 500.00		\$ -	\$	-
Curation of Archeological Materials	each	\$ 230.00	1	\$ 230.00	\$	230.00
Newspaper Ads	each	\$ 1,200.00		\$ -	\$	-
Physical Anthropologist	hourly	\$ 130.00	50	\$ 6,500.00	\$	6,500.00
Total Data Station Unit	daily	\$ 100.00	5	\$ 500.00	\$	500.00
TARL Site Form Filing Fee	each	\$ 96.00	1	\$ 96.00	\$	96.00
Other				\$ -	\$	-
Other				\$ -	\$	-
Other				\$ -	\$	-
Other				\$ -	\$	-
TOTAL OTHER DIRECT COST				\$ 11,969.75	\$	11,969.75

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 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 the Authority's Phase 1B Cost and Schedule Updates. ~ *Ryan Sowa, P.E., Kimley-Horn & Associates*
-

Background/Information

Ryan Sowa with Kimley-Horn will update the Committee on the Phase 1B Cost and Schedule Updates.

Attachment(s)

- Phase 1B Program Update – February 9, 2022
- Kimley-Horn Monthly Summary of Activities for January 2022

Technical Committee Decisions Needed:

- None.



Phase 1B Program Schedule & Budget Update

Technical Committee Meeting
February 9, 2022



ALLIANCE WATER

PRESENTED BY **Kimley»Horn**
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Schedule Update – Pipeline Critical Path



Segment C

- *Alignment Confirmation* – proposed development conflicts on a few parcels under evaluation
- *Environmental Completion* – pending alignment confirmation

Segment D

- *Agency Review* – USACE – resubmittal being finalized to address agency comments
- *TWDB Review* – pending USACE approval

Segment E

- *Environmental Completion* – remaining field work completed and approved by THC
- *Agency Review* – THC – submittal being finalized



Schedule Update

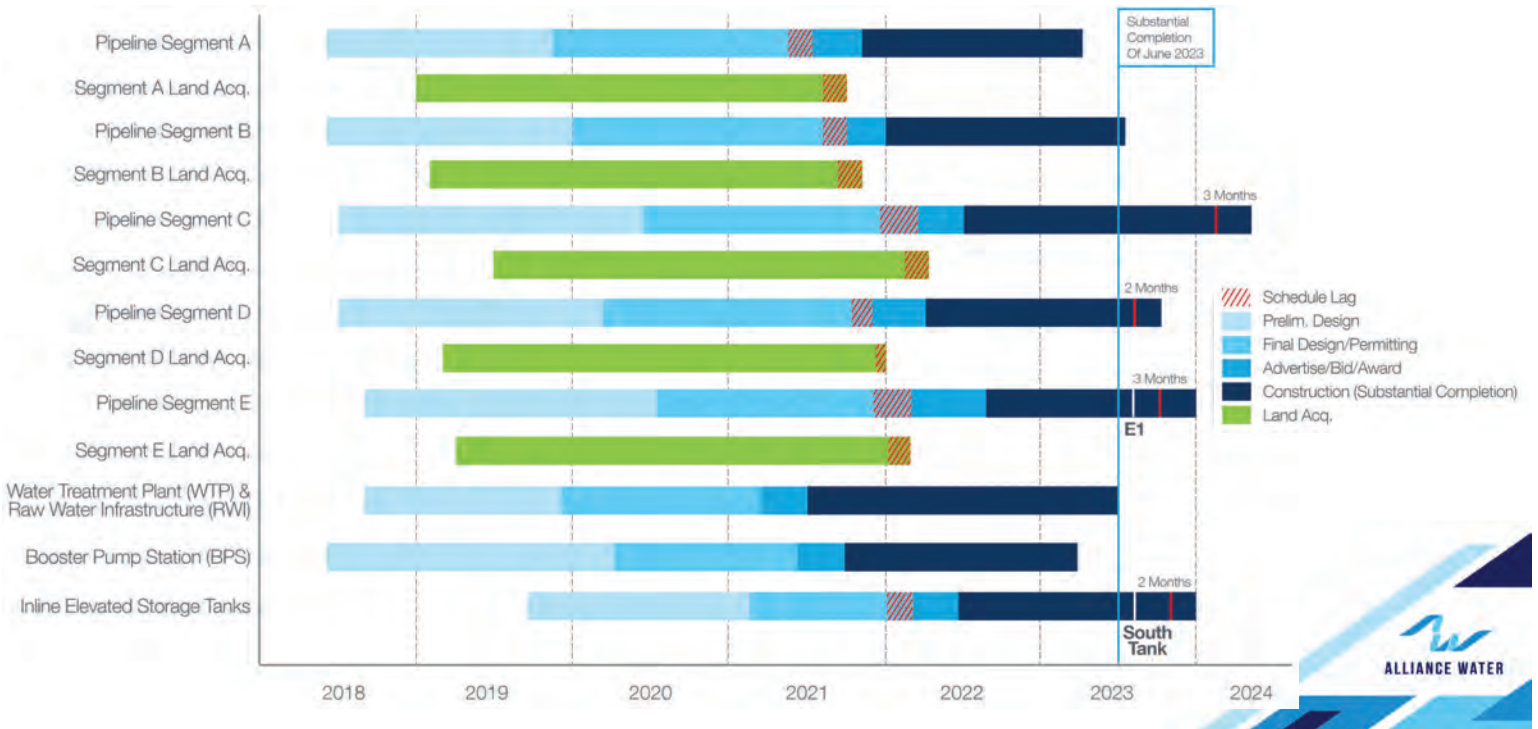
Other Developments Since Last Update

- Pipeline Design
 - No critical path concerns

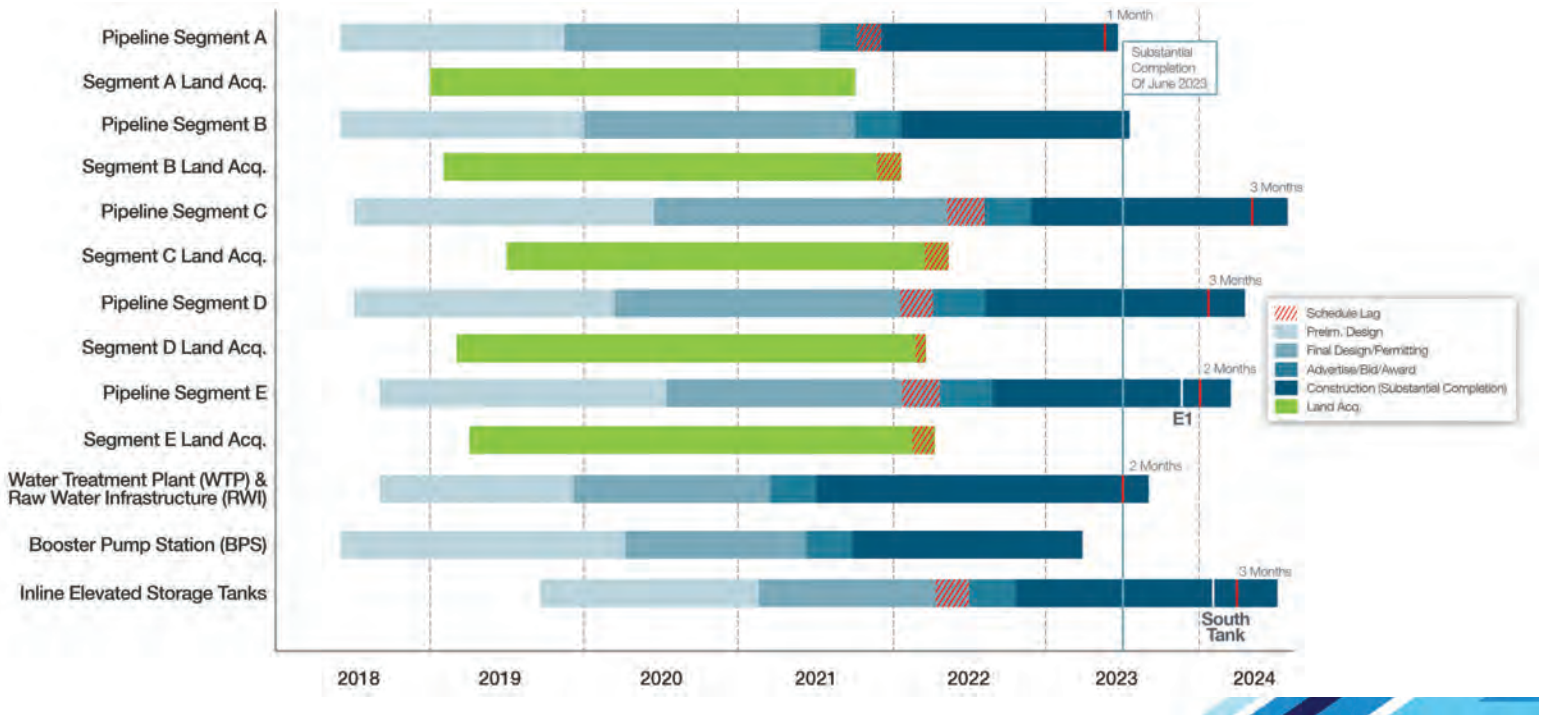
- Easement Acquisition (Pipelines)
 - Commissioners Hearing Scheduling
 - Caldwell County – nearly complete
 - Guadalupe County
 - Segment D – mostly complete
 - Segment E – ongoing
 - Hays County – underway



Schedule Update – October 2021



Schedule Update – February 2022



Schedule Update

Transmission Pipelines – Segment B

- **No Significant Change**
 - Substantial Completion – 07/12/23
- **Current Key Risks:**
 - Land acquisition – final agreements on remaining parcels
- **Mitigation**
 - Expedited coordination with remaining landowners’ representatives to finalize agreements

Transmission Pipelines – Segment C

- **Net Delay of 3 Months**
 - Substantial Completion – 08/20/24
- **Current Key Risks:**
 - Alignment Confirmation – landowner realignment requests
 - USACE – Waters of the US
- **Mitigation**
 - Intermediate schedule milestones for key delivery points (County Line SUD, Kyle)
 - Further consideration of construction schedule reduction
 - Continual landowner coordination



Schedule Update

Transmission Pipelines – Segment D

- **Delay of 3 Months**
 - Substantial Completion – 03/20/24
- **Key Risks:**
 - USACE jurisdictional determinations and resolution
 - TWDB review durations
 - Land acquisition – scheduling of hearings
- **Mitigation**
 - Release for procurement ahead of TWDB EDF review completion
 - Further consideration of construction schedule reduction
 - Continual check-ins with USACE, TWDB

Transmission Pipelines – Segment E

- **Delay of 2 Months**
 - Substantial Completion (Segment E1) – 12/07/23
 - Substantial Completion (Segment E2) – 02/08/24
- **Current Key Risks:**
 - Environmental – relocation of remains
 - TWDB review durations
 - Land acquisition – land sales/subdividing, scheduling of hearings
- **Mitigation**
 - Consideration of contractual split from E2



Schedule Update

Inline Elevated Storage Tanks

- **Total Adjustment of 3 Months**
 - Substantial Completion (South Tank) – 01/24/24
 - Substantial Completion (North Tank) – 04/17/24
- **Current Key Risks:**
 - Environmental – each tank included in corresponding pipe segment reports
- **Mitigation**
 - Potential separate bidding of South Tank to align schedule with Segment D





Budget Update

Budget Update

► Summary of Changes in Last 3 Months:

- Net Increase of \$100,000
- Pipeline Segment B
 - Updated for approved construction award amount
 - Addition of construction contingency
- San Marcos Water Treatment Plant Improvements Project
 - Includes piping improvements for an emergency connection to ARWA Segment B
 - Updated for approved construction award amount
 - Addition of construction contingency
- Inline Elevated Storage Tanks
 - 60% Submittal received, which included updated construction cost projection



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

FEBRUARY 2021 UPDATE

NO CHANGE FROM
JANUARY UPDATE

Budget Update

► Additional Notes:

- Continued Pipeline Cost Reduction Evaluation
- Construction Materials Market Volatility
- Land Acquisition & Real Estate





Questions?

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

F.5 Update, discussion and possible direction to Staff regarding timing and financing of project cost increases. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Following the discussion from the previous Board meetings regarding cost increases in the physical infrastructure and easements associated with the Phase 1B Program, Staff has worked with the Authority's Financial Advisors, Specialized Public Finance, to determine what interest rates and debt service paybacks may be required if additional funding is garnered through the Texas Water Development Board (TWDB) State Water Implementation Fund of Texas (SWIFT). Below are the results:

Entity	Amount to be Financed	Annual Debt Service	Payback Term	Average Interest Rate
CRWA	\$ 14,460,000	\$732,000	30-years	2.787%
Kyle	\$ 13,195,000	\$670,000	30-years	2.787%
San Marcos	\$ 16,760,000	\$1,070,000	20-years	1.996%
Buda	\$ 2,410,000	\$157,000	20-years	1.994%
TOTAL	\$ 46,825,000	\$2,629,000		

The listed interest rates are the October 2021 SWIFT interest rates with an additional 50-basis points of cushion. It is also important to note that in 2021 the TWDB reduced the subsidy amounts offered on the 20-year notes from 35% to 20% and for the 30-year notes from 20% to 14%.

Staff submitted an Abridged Application for SWIFT funding to the TWDB by the deadline of February 1, 2022 to preserve the right to utilize this funding source.

Staff is continuing to review other options for financing.

Technical Committee Decisions Needed:

- None.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

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. ~ *Graham Moore, P.E., Executive Director ~ Graham Moore, P.E., Executive Director*

Background/Information

The Authority entered into a work order with Kimley-Horn & Associates, Inc. in February 2018 for the first year of Owner’s Representative Services for the Phase 1B Program and entered into work orders in February 2019, 2020 and 2021 for the second, third and fourth years. The current work order is set to expire on February 28, 2022.

The table below outlines the contracted fees for Owner’s Representative services for the first two work orders and the actual/projected total expenditure for each:

Work Order / Period	Contract Value	Total Expenditure
#1 (3/18 – 2/19)	\$2,609,966	\$1,984,280
#2 (3/19 – 2/20)	\$2,877,103	\$2,815,225
#3 (3/20 – 2/21)	\$3,110,422	\$3,110,422
#4 (3/21 – 2/22)	\$2,685,433	\$2,400,000*

* Projected

The Executive Director negotiated a new work order with Kimley-Horn to begin on March 1, 2022 and extend through February 28, 2023. Below is a summary of the scope of work.

Scope of Work

A detailed scope of work is attached with summary costs listed below. Due to the scale of the effort it is difficult to get a definitive list of all activities that will be required. It will be incumbent upon the Executive Director to closely monitor the activities and expenditures.

Task	Anticipated Fee
1 – Program Management Plan Updates	\$9,550
2 – Stakeholder Coordination	\$219,391
3 - Budgeting	\$91,175
4 - Schedule	\$38,838
5 – Reporting	\$44,890
6 – Data Management	\$87,965
7 – Environmental Management	\$62,796

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

8 – Land Acquisition Management	\$459,289
9 – TWDB Management	\$70,355
10 – Design Standards Updates	\$41,994
11 – Engineering Design Management	\$209,034
12 – Quality Assurance	\$8,140
13 – Electrical Power Planning	\$30,183
14 – Permit Coordination/Tracking	\$48,510
15 – Procurement & Construction Phase	\$300,483
16 – Project Administration	\$38,166
17 – Other Services	\$16,200
18 – Environmental Const Phase Svcs	\$212,142
Maximum Fee	\$1,989,091

Fee Schedule

The work is proposed to be contracted on an hourly rate basis. Kimley-Horn's subconsultants account for 60.4% of the total anticipated effort, with 59.4% of the total effort contracted to Historically Underutilized Businesses. The costs include a 10% markup by Kimley-Horn on all subconsultants work.

Contract

The work order will be issued under the terms and conditions of the Master Agreement entered into between Kimley-Horn and Alliance Water in May 2016.

Attachment(s)

- Proposal dated February 4, 2022 from Kimley-Horn for Phase 1B – Owner's Representative Services

Recommendation(s)

- The Executive Director recommends approval of the work order with Kimley-Horn & Associates

Technical Committee Decision Needed:

- 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.



February 4, 2022

Mr. Graham Moore, P.E.
Executive Director
Alliance Regional Water Authority
1040 Highway 123
San Marcos, TX 78666

**RE: Scope of Services – Work Order No. 6
Phase 1B Infrastructure – Owner’s Representative**

PROJECT DEFINITION AND BACKGROUND

The Alliance Regional Water Authority (Alliance Water) has developed a Capital Improvements Plan (CIP) per Resolution 20160525-008 that identifies anticipated infrastructure requirements over the several decades. This CIP is divided into multiple project delivery phases. Phase 1A is scheduled to be completed in 2018. Phase 1B consists of infrastructure to be delivered by the end of 2023 and includes groundwater wells, water treatment plant, transmission mains, booster pump station, and eight (8) delivery points. Alliance Water and Guadalupe Blanco River Authority (GBRA) have entered into an agreement to oversize a portion of the proposed Phase 1B infrastructure to accommodate delivery of water to both Alliance Water as well as GBRA customers (three additional delivery points). The infrastructure to be oversized includes: water treatment plant, a significant portion of the transmission mains, and booster pump station.

Alliance Water has obtained a State Water Implementation Fund for Texas (SWIFT) loan from the Texas Water Development Board (TWDB) for the proposed Phase 1B Program.

The Scope of Services for this agreement consists of Kimley-Horn and Associates, Inc. (“Kimley-Horn” or “Owner’s Representative”) serving Alliance Water as an Owner’s Representative by assisting in the management of the overall project delivery of Phase 1B Program through the completion and startup of the infrastructure in 2023. In performing the services, the Owner’s Representative will endeavor to operate as an extension of Alliance Water’s staff. The Owner’s Representative will function as the representative and not the agent of Alliance Water. The Owner’s Representative will exercise independent judgment and will operate without extensive oversight and direction. The Owner’s Representative will commit the personnel and resources required to perform the services throughout the term of this Agreement.

Work Order No. 6 will extend for a duration of 12 months. Attachment A identifies the key phases that each infrastructure contract is anticipated to complete within this 12-month period.

KEY TERMINOLOGY

- **Consultants** – refers collectively to consultants (design, environmental, and land acquisition) that will be procured by and contracted directly with Alliance Water for the Phase 1B Program.
- **Land Acquisition Consultant Team** – refers to consultants (legal, land agent / appraisal, and survey) that will be procured by and contracted directly with Alliance Water for the land acquisition process for the Phase 1B Program.
- **Environmental Consultant** – refers to the consultant that will be procured by and contracted directly with Alliance Water to perform environmental services for the Phase 1B Program.
- **Combined Program** – refers to the infrastructure that will be shared between Alliance Water and GBRA.

SCOPE OF WORK

1. Program Management Plan Updates

This task consists of the ongoing implementation and maintenance of the Phase 1B Program Management Plan (PMP) that was developed in Work Order No. 2. The PMP defines the policies and procedures to be implemented by Phase 1B Program personnel. Tasks to be performed may include the development of additional PMP components as well as the maintenance of the following components already developed:

- 1.1. Communication Protocol
- 1.2. Document Control / Data Management Protocol
- 1.3. Quality Assurance Plan
- 1.4. Milestone Review Process Protocol
- 1.5. Risk Management Plan
- 1.6. Land Acquisition Protocol
- 1.7. Environmental Management Protocol
- 1.8. Texas Water Development Board (TWDB) Protocol
- 1.9. Design Management Protocol
- 1.10. Budget and Funding Protocol
- 1.11. Schedule Protocol
- 1.12. Reporting Protocol
- 1.13. Permit Management Protocol
- 1.14. GBRA & Project Advisory Committee (PAC) Protocol
- 1.15. Procurement Protocol
- 1.16. Construction Protocol, including integration of the Construction Management & Inspection (CM&I) team
- 1.17. PMP Appendices

Task Meetings:

- None

2. Stakeholder Coordination

This task consists of the coordination that will be required by the Owner’s Representative in performance of the management of the Phase 1B program. Perform stakeholder coordination in accordance with the protocol established in the PMP. This task consists of:

- 2.1. Stakeholder identification – Not Used
- 2.2. Initial and/or Ongoing Coordination
 - 2.2.1. Executive Director
 - 2.2.2. Technical Committee and Board Meetings – attend and present status updates
 - 2.2.3. Project Advisory Committee (PAC) Meetings – attend and present status updates
 - 2.2.4. Other Alliance Water Consulting Services (Public Relations, Accounting, Legal)
 - 2.2.5. Texas Commission on Environmental Quality (TCEQ)
 - 2.2.6. Texas Department of Transportation (TxDOT)
 - 2.2.7. Union Pacific Railroad (UPRR)
 - 2.2.8. Counties (Hays, Caldwell, Guadalupe)
 - 2.2.9. Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others)
 - 2.2.10. GBRA and/or its consultants
 - 2.2.11. Other utilities, entities

Task Meetings:

- Alliance Water Executive Director coordination meetings
- Alliance Water Executive Committee and Board Meetings
- PAC Meetings
- Other Alliance Water Consulting Services – as part of coordination meetings with Executive Director
- Texas Commission on Environmental Quality
- Texas Department of Transportation
- Union Pacific Railroad
- Counties
- Cities
- Other utilities, entities
- Design consultants will be required to meet with agencies separately on project specific issues.

3. Budgeting

Maintain the budget tracking protocol developed in the PMP for the Phase 1B Program. It is assumed that the budget will be maintained in Microsoft Excel and linked to the schedule. The format of the budget will be in accordance with TWDB requirements. Monthly Budget updates are anticipated with monthly review sessions as established in the PMP. This task consists of:

- 3.1. Perform monthly budget updates:
 - 3.1.1. Track costs to the Phase 1B Program versus the anticipated budget. Costs associated with the Combined Program will be tracked separately.

- 3.1.2. Coordinate with applicable parties to receive current opinion of probable construction cost (OPCC) data for projects as identified in PMP.
- 3.1.3. Identify budget deviations and coordinate with applicable parties for potential corrective measures. Summarize budget deviations within monthly updates.
- 3.2. Prepare budget updates for the following parties at the frequency identified:
 - 3.2.1. Executive Director – monthly
 - 3.2.2. Alliance Water Board and Technical Committee – quarterly
 - 3.2.3. PAC – quarterly
 - 3.2.4. TWDB – quarterly
 - 3.2.5. Public – quarterly
- 3.3. Program Cost Analysis and Review – perform cost analyses, which may include: evaluating proposed design standards and specifications, obtaining contractor input, and comparing cost projections prepared by Design Consultants to look for potential options for controlling projected program costs.

Task Meetings:

- None.

4. Schedule

Maintain the schedule as Identified in the PMP for the Phase 1B Program. The schedule management will be performed monthly using Microsoft Project with schedule review sessions as established in the PMP (concurrent with budget review sessions). This task consists of:

- 4.1. Perform monthly schedule updates:
 - 4.1.1. Coordinate with applicable parties to obtain current schedules for projects
 - 4.1.2. Identify schedule deviations and coordinate with applicable parties for potential corrective measures. Schedules for projects in construction will be evaluated by others and for the purposes of the monthly update these schedules will be condensed into only the primary construction tasks.
 - 4.1.3. Special updates will be performed when critical information becomes known
- 4.2. Prepare schedule updates for the following parties at the frequency identified:
 - 4.2.1. Executive Director – monthly
 - 4.2.2. Alliance Water Board and Technical Committee – quarterly
 - 4.2.3. PAC – quarterly
 - 4.2.4. TWDB – quarterly
 - 4.2.5. Public – quarterly
- 4.3. Program Schedule Analysis and Review – perform overall program schedule analysis, which may include: obtaining contractor input and comparing schedules prepared by Design Consultants to look for potential options for controlling projected program schedule.

Task Meetings:

- None.

5. Reporting

Prepare routine progress reports as identified in the PMP for the Phase 1B Program. This task consists of:

- 5.1. Prepare monthly progress reports:
 - 5.1.1. Coordinate with applicable parties to obtain status for project tasks
 - 5.1.2. Provide Board and Technical Committee a detailed report identifying what was worked on during the previous month and what is anticipated for the following month
 - 5.2. Prepare progress updates for the following parties at the frequency identified:
 - 5.2.1. Executive Director – weekly summary and monthly report
 - 5.2.2. Alliance Water Board and Technical Committee – monthly
 - 5.2.3. PAC – monthly
 - 5.2.4. TWDB – quarterly
 - 5.2.5. Public – quarterly
- Progress reports for projects in construction will be prepared by the CM&I team.

Task Meetings:

- None.

6. Data Management

Manage record keeping as established in the PMP. Data storage will continue to be performed utilizing Microsoft SharePoint as well as Esri ArcGIS. This task consists of:

- 6.1. Overall data management:
 - 6.1.1. Perform administrative support functions for overall project record keeping and implementing the data management system;
 - 6.1.2. Enter information into applicable data management system;
 - 6.1.3. Distribute updated contract documents ensuring program team maintain current version of project documents;
 - 6.1.4. Prepare, manage, record, distribute and archive documentation of project activities, progress, and related communications;
 - 6.1.5. Log receipt of documents and inquiries requiring a response, provide delivery of documents to appropriate parties, track documents, and monitor timely response;
 - 6.1.6. Review supporting documents for conformance with PMP guidelines;
 - 6.1.7. Maintain project records;
 - 6.1.8. Maintain change management logs, RFI logs, RFPs logs, submittal logs;
 - 6.1.9. Perform internal audits for quality assurance of overall documents.
- 6.2. Microsoft SharePoint:
 - 6.2.1. Perform ongoing data management of documents within SharePoint,
- 6.3. Interactive Web-based GIS:
 - 6.3.1. Perform data updates for the following data to be hosted in ArcGIS application, assumed to occur at the frequencies identified:
 - Background Imagery (provided by Esri basemapping) – annually;
 - Parcel data (right-of-entry and land acquisition status) – weekly;

- City / County / District boundaries – annually;
- Alliance Water proposed infrastructure – monthly;
- FEMA 100-year floodplain (from FEMA map service) – annually;
- United States Geological Service (USGS) National Hydrography Dataset (from USGS hosted map service) – annually;
- United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (from USFWS hosted map service) – annually;
- Desktop/Field Environmental data provided by Environmental Consultant – monthly;
- Topographical data – annually;
- Existing utility data – monthly;
- Construction progress tracking - monthly

Updates/edits will be performed in an ArcGIS Desktop environment prior to being viewable in the web-based application. Data and application support and hosting will be provided for the duration of this this Work Order.

- 6.4. Coordination with Construction Management and Inspection (CMI) Team regarding GPS Collected Data:
 - 6.4.1. Coordinate with CMI Team regarding setting up Web-Based GIS site to accept their collected field data.
 - 6.4.2. Review data loaded to the Web-Based GIS by the CMI Team on a monthly basis to confirm construction data is being collected as each project progresses and confirm naming convention is being followed by the CMI Team. CMI Team responsible for their own internal QA/QC, Kimley-Horn to spot check for conformance.

Task Meetings:

- None.

Deliverables:

- Hard copy deliverables to be provided to Alliance Water and other parties as part of the Owner’s Representative services are included in this task. Deliverables may include:
 - Meeting agendas;
 - Program status reports;
 - Copies of the PMP;
 - Exhibits.

7. Environmental Management

Perform environmental management and coordination for the Phase 1B Program in accordance with the PMP. This task consists of:

- 7.1. Perform regular coordination with Environmental Consultant to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
- 7.2. In conjunction with the Environmental Consultant, perform ongoing coordination with key agencies, including:
 - 7.2.1. United States Army Corps of Engineers (USACE)

- 7.2.2. Texas Parks and Wildlife Department (TPWD)
- 7.2.3. Local floodplain administrators.
- 7.3. Assist with the review of Environmental Consultant monthly invoices.
- 7.4. Perform continuous tracking of Environmental Consultant’s project scope and assist with the development and review of potential amendments.
- 7.5. Perform as-needed site visits with Environmental Consultant during their field studies.
- 7.6. To the extent reasonably possible, site visits will be coordinated with those identified in Task 8 and 11.
- 7.7. Review and comment on environmental permitting documents (prepared by Environmental Consultant) for the following agencies:
 - 7.7.1. USACE
 - 7.7.2. TPWD
 - 7.7.3. United States Fish and Wildlife Service (USFWS)
 - 7.7.4. Texas Historical Commission (THC).
- 7.8. Review and comment on TWDB environmental deliverables prepared by Environmental Consultant.
- 7.9. Other Environmental Services as identified and assigned by Alliance Water.

Task Meetings:

- Environmental agency (USACE, USFWS, TPWD, THC) meetings
- Environmental Consultant Team progress meetings

8. Land Acquisition Management

Perform management and coordination for the Phase 1B Program land acquisition process in accordance with the PMP and the RAMP. This task consists of:

- 8.1. Perform regular coordination with Land Acquisition Consultant Team (including weekly progress meetings) to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
- 8.2. Assist with the review of Land Acquisition Consultant Team monthly invoices.
- 8.3. Perform continuous tracking of Land Acquisition Consultant’s project scope and assist with the development and review of potential amendments.
- 8.4. Review land acquisition data for conformance to the PMP/RAMP requirements and provide comments to the Land Acquisition Consultant Team.
- 8.5. Perform as-needed site visits with Land Acquisition Consultant Team.
- 8.6. To the extent reasonably possible, site visits will be coordinated with those identified in Task 7 and 11.
- 8.7. Review and comment on TWDB land acquisition deliverables prepared by Land Acquisition Consultant Team.
- 8.8. Coordination with landowners to facilitate access for Consultants for field work,
- 8.9. Assist in the resolution of title issues (such as recent landowner transactions) by contacting/visiting County appraisal districts and other offices as needed to obtain relevant deeds, plats, and similar documents.
- 8.10. Weekly meetings with Alliance Water and Special Counsel as well as biweekly meetings with the Program Surveyor.
- 8.11. Other Land Acquisition Services as identified and assigned by Alliance Water.

Task Meetings:

- Land Acquisition Team progress meetings

9. Texas Water Development Board Management

Perform management and coordination with the TWDB for the Phase 1B Program in accordance with the PMP. This task consists of:

- 9.1. Identify milestone deliverables and provide feedback on critical path schedule.
- 9.2. Review TWDB deliverables for conformance to TWDB requirements and provide comments to the Consultants.
- 9.3. Perform regular coordination with the TWDB to discuss ongoing activities, schedule, potential issues, status of deliverables, and other items related to the TWDB SWIFT loan.
- 9.4. Prepare fund release request letters for submission to the TWDB, including required backup information.

Task Meetings:

- TWDB progress meetings

10. Design Standards Updates

This task shall include the revising and updating of design standards documents already prepared in prior Work Orders. Categories may consist of:

- 10.1. Revisions/Updates to Design Standards, Specifications and Details (develop and/or update as needed):
 - 10.1.1. Transmission Pipelines and Delivery Points Design Standards
 - 10.1.2. Standard Specifications for Construction
 - 10.1.3. Standard Details
 - 10.1.4. Pipeline Corrosion Protection Standards
 - 10.1.5. Telemetry, Instrumentation & Controls, SCADA, and Security Standards – Development of Design Standards, Specifications and Details for the following:
 - 10.1.5.1. Fiber Optic Design Standards, Specifications and Details
 - 10.1.5.2. SCADA Communication Standards, Specifications and Details
 - 10.1.5.3. Instrumentation Standards, Specifications and Details
 - 10.1.5.4. Security Standards, Specifications and Details
 - 10.1.6. Facility General Electrical Standards – to be developed by the Water Treatment Plant Consultant as part of their specification development. The Owner’s Representative will review and comment and coordinate with other applicable Consultants to promote consistency.
- 10.2. Master Specifications – develop and/or update as needed
- 10.3. Record Drawings (Plans & GIS)
- 10.4. Address comments from Design Consultant Teams and finalize

Task Meetings:

- Specifications and Details Review Meeting (1 total).

11. Engineering Design Management

Perform engineering design management and coordination for the Phase 1B Program in accordance with the PMP. Manage the following proposed design contracts:

- 11.1. Hydrogeology / Well Drilling
- 11.2. Raw Water Infrastructure
- 11.3. Water Treatment Plant and High Service Pump Station
- 11.4. Transmission Pipelines (5 contracts)
- 11.5. Administration Building and Operations Center
- 11.6. Booster Pump Station and Delivery Points
- 11.7. Elevated Storage Tanks
- 11.8. Program Survey

The following tasks may be performed, as applicable to the current status of the contract:

- Identify early actions required.
 - Assist with the development and review of project scope (new contracts and/or contract amendments) for the Design Consultants.
 - Assist with the review of proposed LOE developed by the Design Consultants.
 - Review and provide comments on the Project Management Plans prepared by the Design Consultants.
 - Assist with the review of Design Consultant monthly invoices.
 - Perform regular coordination with the Design Consultants to discuss ongoing activities, schedule, potential issues, deliverables, and other items related to their scope of work.
 - Perform as-needed site visits with Design Consultants.
 - To the extent reasonably possible, site visits will be coordinated with those identified in Task 7 and 8.
 - Review and comment on TWDB Engineering Feasibility Report (EFR) deliverables prepared by Design Consultants.
 - Review and comment on milestone submittals (60%, 90%, final) prepared by Design Consultants.
 - Review/Provide comments on Consultant OPCCs at milestones.
 - Other Design-related services as assigned by Alliance Water.
- 11.9. Commissioning Planning – This task includes evaluating potential options for start-up and commissioning of the Phase 1B infrastructure, including coordination with Alliance Water members (sponsors) and other water utilities in the vicinity of the Phase 1B infrastructure.

Task Meetings:

- Consultant Design Teams progress meetings

12. Quality Assurance

Perform Quality Assurance protocol for the Phase 1B Program in accordance with the PMP. This task includes:

- 12.1. Review the Quality Assurance / Quality Control (QA/QC) Plans prepared by the Consultants for conformance to the PMP and provide comments.

- 12.2. Perform regular coordination with Consultants to confirm implementation of QA/QC in project activities.
- 12.3. At each milestone submittal, receive QA/QC documentation from Consultants and review for adherence to QA/QC Plan.

Task Meetings:

- None.

13. Electrical Power Planning

Perform ongoing planning and coordination support associated with the electrical power required for the Phase 1B Program infrastructure, which may include the following:

- Well Pumps and Raw Water Infrastructure
- Water Treatment Plant and High Service Pump Station
- Booster Pump Station, Administration Building and Operations Center
- Potential Corrosion Protection Systems for Transmission Pipelines

The following tasks shall be performed:

- 13.1. Perform preliminary analyses and coordinate with Design Consultants to determine approximate demand and energy associated with each of the potential service locations.
- 13.2. Develop a strategy for contacting, gathering system quality and reliability data, and discussing rates with each of the electrical service providers.
- 13.3. Coordinate with the electrical service providers to evaluate potential cost and reliability of service options for each location.
- 13.4. Assist Alliance Water with negotiations of the electrical supply agreements.
- 13.5. Assist the Alliance by defining special equipment needs such as power factor correction, motor starting equipment to mitigate voltage dips, etc.

Task Meetings:

- Alliance Water and Electrical Service Providers coordination meetings

14. Permit Coordination/Tracking

Perform permit coordination and tracking associated with the Phase 1B Program in accordance with the PMP. The following tasks shall be performed:

- 14.1. Perform regular coordination with the Consultants to discuss ongoing activities, schedule, potential issues, and other items related to permitting.
- 14.2. Incorporate permit updates from Consultants into master permit tracking list. The master permit tracking list will maintain linkage to the master schedule.
- 14.3. The following list identifies the anticipated entities that will require approvals and/or permits in the performance of the Phase 1B Program. The Consultant will provide design documents and exhibits required as part of the permit submittal.

14.3.1. TCEQ – includes the following tasks:

- Permitting and Public Water Supply coordination for delivery points,
- Corrosion Report coordination,
- Exception Request submittal and coordination.

14.3.2. TxDOT

14.3.3. UPRR

14.3.4. Counties (Hays, Caldwell, Guadalupe)

14.3.5. Cities (Kyle, San Marcos, Uhland, Lockhart, Maxwell, others)

14.3.6. Private utilities

Task Meetings:

- As already defined in Task 2 – Stakeholder Coordination.

15. Procurement and Construction Phase Services

Perform Procurement and Construction Phase Services associated with the Phase 1B Program in accordance with the PMP.

Throughout the duration of Procurement and Construction Phase Services, the Consultant for each respective project will provide professional opinions, render engineering judgement, and make final decisions for any adjustment to design intent or revisions to construction documents. The CM&I will lead the development and implementation of the construction management plan and perform inspections for the projects. The Owner’s Representative team will function as an administrative liaison between the parties but will not direct the Consultants to make changes to the design.

The following tasks are anticipated:

15.1. Procurement Services

15.1.1. Pre-Proposal Meeting

15.1.1.1. Prepare agenda and lead meeting

15.1.1.2. Collect questions and provide to Design Consultant for review and response

15.1.2. Addenda Review

15.1.2.1. Review administratively

15.1.3. Proposal Evaluation and Recommendation

15.1.3.1. Review and participate in scoring proposals submitted for construction packages and provide formal recommendation to Owner

15.1.4. Committee and Board Items

15.1.4.1. Present Proposal Summary and formal recommendation to PAC and Board as well as the Technical Committee, if time permits

15.1.5. Execution of Contract

15.1.5.1. Coordinate construction contract execution

15.2. Construction Phase Services

15.2.1. Administration

- 15.2.1.1. Prepare and present at workshop on administrative construction procedures
- 15.2.1.2. Review and comment on Construction Administrative Data Management Plan (prepared by the CM&I)
- 15.2.1.3. Coordination with design consultant, CM&I and Alliance Water for general management tasks

15.2.2. Preconstruction Meetings

- 15.2.2.1. Attend

15.2.3. Monthly Construction Meetings

- 15.2.3.1. One (1) member of the Owner’s Representative team will attend monthly construction meetings for all projects, scheduled on the same 1 to 2-day span each month.

15.2.4. Construction Activities – Review and comment on applicable items, and attend meetings as needed:

- 15.2.4.1. Submittals (review of Program-wide elements only)
- 15.2.4.2. Substitutions (Consultant provides recommendation, Owner’s Representative reviews and advises Owner)
- 15.2.4.3. Request for Information (only if RFI has contractual implications)
- 15.2.4.4. Pay Request (review for administrative completeness only)
- 15.2.4.5. Defective Work (Consultant provides recommendation, Owner’s Representative reviews and advises Owner)
- 15.2.4.6. Change Orders (Consultant provides recommendation, Owner’s Representative reviews and advises Owner)
- 15.2.4.7. Record Drawings (review for administrative completeness only)
- 15.2.4.8. Commissioning (attend and coordinate ARWA sponsors as needed)
- 15.2.4.9. Substantial Completion
- 15.2.4.10. Final Walkthrough
- 15.2.4.11. Warranty Walkthrough

Note: *the Owner’s Representative will perform procurement and construction phase services associated with the SCADA and Security elements to be included under the Water Treatment Plant and High Service Pump Station contract. The Owner’s Representative shall lead the effort for these elements under Task 15, while coordinating with the design consultant.*

Task Meetings:

- As already defined in Task 15 – Procurement and Construction Phase Services.

16. Project Administration

For this task, “Project” refers to the contract between the Owner’s Representative and Alliance Water. The following tasks shall be performed:

- 16.1. Invoicing – the Owner’s Representative shall submit invoices monthly in the approved format for Alliance Water review and approval. Each monthly invoice package shall include the invoice and project status report.

- 16.2. Project Management – the Owner’s Representative shall perform miscellaneous administrative tasks, including management of manpower and budgets, subconsultant management, and other activities associated with managing the overall Owner’s Representative contract.

Task Meetings:

- None.

17. Other Services

Perform services on an as-directed basis as directed by Alliance Water. These tasks could include:

- 17.1. Water Quality Testing and Coordination – This task consists of sampling and testing of the raw water source and customer treated water sources. This task will include testing protocols, on-site testing, lab coordination and review, summary reporting and coordination with the Water Treatment Plant Design Consultant. Sampling will occur at the raw water wells for Alliance Water and GBRA for evaluating chlorine decay, trihalomethane (THM) formation, and/or other constituents. Treated water quality sampling will be near the locations of the Alliance Water delivery points and will be performed for water blending analyses. Water quality sampling and testing will be approved in advance by Alliance Water based on the outcomes of water quality workshops and related coordination. Lab and equipment fees will be paid separately by Alliance Water.
- 17.2. TCEQ Exception Request and Interconnect Submittals – Not Used – refer to Task 14.3.1.
- 17.3. Other Tasks as Assigned by Alliance Water – These tasks may include items such as: desktop-level analyses of specific technical topics (such as water quality), preparation of presentations related to technical or risk topics, and other services as requested by Alliance Water.

Task Meetings:

- None

18. Environmental Construction Phase Services

Perform services on an as-directed basis as directed by Alliance Water. These tasks could include:

- 18.1. Pre-Construction Meeting with Contractor – Prepare presentation or talking points reflective of environmental conditions that must be adhered to during the construction of the facility and present information to the contractor. The environmental team will provide necessary contact information to the contractor and when it would be necessary to stop work and contact the environmental team.
- 18.2. Migratory Bird Nest Survey – This task consists of completing a survey for migratory bird nests prior to vegetation clearing if it will occur between March 15 and September 15. The easement and any temporary construction easements would be surveyed for migratory bird nests. The survey would consist of a field survey of vegetation that would be cleared within five (5) days of the survey. Survey schedule would be required based on the five-day clearing

schedule that the contractor is able to accomplish. Any nests that are found would be marked with flagging along with a buffer around the nest and would be monitored until the birds leave the nest. Any abandoned nests that do not appear to have active nesting use would be removed to prevent use of the nest. A short memorandum will be prepared following the survey for each facility documenting survey results and compliance with regulations.

- 18.3. Cultural Resources – On-call services will be provided in the event that cultural resources are encountered, or excavation reveals sites of potential cultural importance, unmarked graves, or human remains, work will stop, and the Owner’s Representative will be contacted to assess the situation, conduct a site visit if needed, determine the need for further investigation following THC protocol, and complete disposition of any identified features. If cultural resource features are encountered, the THC will be contacted for further consultation and guidance as to the need for further investigations or surveys. Coordination with the U.S. Army Corps of Engineers (USACE) will also occur if the site is within jurisdictional areas. This Scope of Services does not include an archeological survey. A report will be prepared and submitted documenting the results of any investigations or consultations which have occurred.
- 18.4. Encounter protected species – On-call services will be provided in the event state or federally listed threatened or endangered species or potential habitats are encountered by construction workers during the construction period. Upon notification by Alliance Water and its construction contractor, the Owner’s Representative will conduct a site visit, consult with federal and state agencies as needed or required, and develop avoidance and/or mitigation measures including relocation of the species if necessary.
- 18.5. USACE Compliance and Reporting – This task includes tasks associated with USACE compliance. This includes updated photos of water crossings pre-construction, ensuring easement boundaries are clearly marked within jurisdictional areas, photos of post-construction once vegetation is reestablished, and report preparation. The report would include confirmation that the work was performed in accordance with USACE requirements, a summary of the work that was performed, a comparison of pre-construction and post-construction conditions of jurisdictional areas, a description of all impacts to waters of the U.S., documentation that disturbed areas have been revegetated, and any associated exhibits necessary.
- 18.6. Hazardous Materials On-Call – This task consists of a subconsultant to Kimley-Horn providing on-call hazardous material investigations during the construction phase of the project. The following activities are anticipated to be conducted:
 - 18.6.1. Upon notification of discovery of potentially hazardous materials during construction, Owner’s Representative will mobilize a subconsultant to the location to evaluate and document site conditions and, if warranted, collect samples for environmental laboratory analyses. The subconsultant will determine the appropriate laboratory analyses for the material encountered and will submit the samples on a requested turn-around time agreeable to the Client. Standard analyses (in accordance with the Resource Conservation Recovery Act) appropriate for evaluation of construction worker safety and waste characterization will be selected. Excavation, transport, and disposal of material is not included in this scope of work.
 - 18.6.2. Owner’s Representative will provide the analytical results and recommendations after receiving and reviewing final analytical reports from the laboratory and provide this information to Alliance Water and the construction contractor. The contractor will be responsible for developing a contractor safety plan.

- 18.6.3. For each on-call incident, a brief written summary will be provided via email communication to document activities associated site evaluation, analytical testing, and waste management.

Assumptions:

- Each site visit would consist of a 12-hour day for two staff members.
- For migratory bird surveys, it is anticipated that the following number of days would be needed per facility/segment:
 - Two (2) days would be required for BPS survey.
 - Fifteen (15) days for Segment A.
 - Fifteen (15) days for Segment B.
 - Segments C, D and E would not require nest surveys since the construction site clearing would start and conclude outside of nesting season.
- Updated photos of jurisdictional areas will be taken during nest survey work, for the purposes of estimating fee. If nest surveys are not required at the beginning of construction for a segment, such as Segment D, two (2) days would be required per segment to take photos for jurisdictional crossings. This excludes Segments B and E as there are no impacts to jurisdictional waters for the segment. If feasible, photos could also be taken by the Program Construction Managers, Pape-Dawson, in lieu of the environmental team mobilizing should it be necessary.
- For cultural resources, two site visits by two staff members are anticipated to be required.
- For threatened/endangered species or habitats, one site visit for the water treatment plant and booster pump station by two staff members and one visit by two staff members for the pipelines are assumed. A report will be prepared and submitted documenting the results of any investigations or consultations which have occurred (see deliverables below).
- USACE reporting would only be required for Segment A, C, and D in this Work Order as Segments B and E avoid USACE impacts.
- Actual report deliverable would not be required as construction is not anticipated to be complete during the work order period. Only work to document existing conditions and organize data and reports would be accomplished during this work order.

FEE AND EXPENSES

Kimley-Horn will perform the services in Tasks 1 – 18 on a labor fee plus expense basis until the maximum fee is reached. The budgets for each task are shown below.

Task 1	Program Management Plan	\$ 9,550.00
Task 2	Stakeholder Coordination	\$ 219,391.00
Task 3	Budgeting	\$ 91,175.00
Task 4	Schedule	\$ 38,828.00
Task 5	Reporting	\$ 44,890.00
Task 6	Data Management	\$ 87,965.00
Task 7	Environmental Management	\$ 62,796.00
Task 8	Land Acquisition Management	\$ 459,289.00
Task 9	TWDB Management	\$ 70,355.00
Task 10	Design Standards	\$ 41,994.00
Task 11	Engineering Design Management	\$ 209,034.00
Task 12	Quality Assurance	\$ 8,140.00
Task 13	Electrical Power Planning	\$ 30,183.00
Task 14	Permit Coordination/Tracking	\$ 48,510.00
Task 15	Procurement and Construction Phase Services	\$ 300,483.00
Task 16	Project Administration	\$ 38,166.00
Task 17	Other Services	\$ 16,200.00
Task 18	Environmental Construction Phase Services	\$ 212,142.00
	Maximum Fee	\$1,989,091.00

Kimley-Horn will not exceed the total maximum fee shown without authorization from Alliance Water. Individual task amounts are provided for budgeting purposes only. Kimley-Horn reserves the right to reallocate amounts among tasks as necessary. Labor fee will be billed on an hourly basis according to our then-current rates. As to these tasks, direct reimbursable expenses such as subconsultants, express delivery services, fees, air travel, and other direct expenses will be billed at 1.10 times cost. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by Alliance Water.

Kimley-Horn agrees that Alliance Water may reduce the scope of services for any (or all) of the tasks included in the work order. Kimley-Horn will be notified of any such reductions via a written directive describing the effort to be reduced. Kimley-Horn shall be paid for all services rendered and expenses incurred to the effective date of reduced scope.

Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Engineer project number.

Please contact me at (210) 321-3414 or ryan.sowa@kimley-horn.com should you have questions.

Very Truly Yours,



V. Ryan Sowa, P.E.
Project Manager



Glenn Gary, P.E.
Senior Vice President

ATTACHMENT A – ANTICIPATED TASKS FOR PHASE 1B CONTRACTS DURING WORK ORDER NO. 6

CONTRACT	CONTRACT PHASE									
	CONSULTANT PROCUREMENT	CONSULTANT CONTRACT EXECUTION	DESKTOP ANALYSES & SITE/ROUTE SELECTION	RIGHTS-OF-ENTRY OBTAINED	FIELD VISITS & ANALYSES	PRELIMINARY ENGINEERING REPORT COMPLETED	TWDB FINAL DESIGN/LAND ACQ. FUNDING RELEASES	FINAL DESIGN	PROCUREMENT FOR CONSTRUCTION	CONSTRUCTION PHASE
PIPELINE SEGMENT A										X
PIPELINE SEGMENT B										X
PIPELINE SEGMENT C							X	X	X	X
PIPELINE SEGMENT D							X		X	X
PIPELINE SEGMENT E							X	X	X	X
WELL DRILLING										
OPS. CENTER & ADMIN. BUILDING										
RAW WATER INFRASTRUCTURE										X
WATER TREATMENT PLANT										X
BOOSTER PUMP STATION & DELIVERY POINTS										X
ELEVATED STORAGE TANKS							X	X	X	

**Alliance Regional Water Authority Owner's Representative
 Work Order No. 6 Rate Schedule
 (Hourly Rate)**

QA/QC Engineer / Senior Project Manager / Principal	\$285
Senior Technical Advisor / Deputy Project Manager	\$235
Senior Instrumentation / Electrical Engineer	\$225
Property Acquisition Manager	\$235
Senior Scheduler	\$220
Senior Architect	\$215
Senior Environmental Manager	\$200
Senior Engineer	\$195
GIS Specialist	\$180
Instrumentation / Electrical Engineer	\$170
Senior Biologist	\$165
Civil Engineer	\$175
GIS Developer	\$170
IT Professional	\$155
Engineer-in-Training II	\$150
Architectural Project Manager	\$145
CADD Operator / Senior Technician	\$145
Engineer-in-Training I	\$130
GIS Analyst	\$135
Biologist	\$120
Acquisition / Title Specialist	\$140
Senior Historian	\$110
Document Control Specialist	\$125
Administrative Staff / Technician	\$95
Archeologist	\$85

Alliance Regional Water Authority																			Project Fee Summary						
Owner's Representative / Program Management (Work Order No. 6)																			Total Effort	\$ 1,989,091					
2/4/2022																									
Detailed Overall Kimley-Horn Cost Breakdown																									
Scope of Services																									
Task	Project Role	QA/QC / Senior Mgr / Principal	Senior Tech. Adv. / Deputy Pj Mgr	Senior Engineer	GIS Specialist	Civil Engineer	IT Professional	GIS Developer	CADD Operator / Senior Technician	Engineer-in-Training II	Engineer-in-Training I	GIS Analyst	Administrative Staff / Technician	Total Hours	Total Labor Effort	Total Expense Effort	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$285.00	\$235.00	\$195.00	\$180.00	\$175.00	\$155.00	\$170.00	\$145.00	\$150.00	\$130.00	\$135.00	\$95.00												
6.3	Interactive Web-based GIS				12	12		12	12	24	24			0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.3.1	Perform ongoing incorporation of data within ArcGIS	3												99	\$ 15,615	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,615
6.4	Coordination with CMI Team regarding GPS Collected Data													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.4.1	Coordinate with CMI Team regarding GIS site	3		12						12	12			39	\$ 6,555	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,555
6.4.2	Review data loaded by CMI Team on a monthly basis	3		12						12	12			39	\$ 6,555	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,555
6.5	Deliverables													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.5.1	Hard copy deliverable to be provided to Alliance Water													0	\$ -	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000
6.5.1.1	Meeting Agendas													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.5.1.2	Program status reports													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.5.1.3	Copies of the PMP													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
6.5.1.4	Exhibits													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Task 7 - Environmental Management																									
7.1	Perform regular coordination with Env. Cons.	10		4										14	\$ 3,630	\$ -	\$ -	\$ 55,176	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,176	\$ 62,796
7.2	Ongoing agency coordination													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7.2.1	United States Army Corps of Engineers (USACE)													0	\$ -	\$ -	\$ 2,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,904
7.2.2	Texas Parks and Wildlife Department (TPWD)													0	\$ -	\$ -	\$ 363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 363
7.2.3	Local floodplain administrators													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
7.3	Assist with the review of Env. Cons. monthly invoices	4												4	\$ 1,140	\$ -	\$ 2,178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,318
7.4	Continuous tracking of Env. Cons. Scope of work & amendments	6												6	\$ 1,710	\$ -	\$ 2,904	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,614
7.5	Perform as-needed site visits with Env. Cons. during Field Study													0	\$ -	\$ -	\$ 1,452	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,452
7.6	Coordinated site visits with those identified in Task 8 and 11													0	\$ -	\$ -	\$ 363	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 363
7.7	Review and comment on Environmental Permitting Documents	2												2	\$ 570	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 570
7.7.1	USACE													0	\$ -	\$ -	\$ 4,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,356
7.7.2	TPWD													0	\$ -	\$ -	\$ 726	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 726
7.7.3	United States Fish and Wildlife Service (USFWS)													0	\$ -	\$ -	\$ 726	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 726
7.7.4	Texas Historical Commission (THC)													0	\$ -	\$ -	\$ 2,178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,178
7.8	Review and comment on TWDB deliverables by Env. Cons.	2												2	\$ 570	\$ -	\$ 8,712	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,282
7.9	Other Environmental Services as defined by Alliance Water													0	\$ -	\$ -	\$ 7,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,260
7.10	Environmental Agency meetings (USACE, USFWA, TPWD, THC)													0	\$ -	\$ -	\$ 1,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,089
7.11	Environmental Consultant Team progress meetings													0	\$ -	\$ -	\$ 1,815	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,815
Task 8 - Land Acquisition Management																									
8.1	Perform regular coordination with Ld. Acq. Cons.	48				48								96	\$ 22,080	\$ -	\$ -	\$ -	\$ -	\$ 411,169	\$ -	\$ -	\$ -	\$ 411,169	\$ 459,289
8.2	Assist with the review of Ld. Acq. Cons. monthly invoices													0	\$ -	\$ -	\$ -	\$ -	\$ 4,235	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,235
8.3	Continuous tracking of Land Acq. Scope of work & amendments	12												12	\$ 3,420	\$ -	\$ -	\$ -	\$ 2,585	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,005
8.4	Review land acquisition data for conformance to the PMP/RAMP													0	\$ -	\$ -	\$ -	\$ 11,704	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,704
8.5	Perform as-needed site visits with Ld. Acq. Cons.													0	\$ -	\$ -	\$ -	\$ 1,293	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,293
8.6	Coordinated site visits with those identified in Task 7 and 11													0	\$ -	\$ -	\$ -	\$ 2,063	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,063
8.7	Review and comment on TWDB land acquisition deliverables	12				12								24	\$ 5,520	\$ -	\$ -	\$ -	\$ 6,793	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,313
8.8	Coord. with landowners to facilitate access for Consultants for field work													0	\$ -	\$ -	\$ -	\$ 7,453	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,453
8.9	Assist in resolution of title issues													0	\$ -	\$ -	\$ -	\$ 86,900	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,900
8.10	Weekly Mtg with Alliance Water and Special Counsel	36												36	\$ 10,260	\$ -	\$ -	\$ 13,442	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,702
8.11	Other Ld. Acq. services as identified and assigned by Alliance Water	24												24	\$ 6,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,840
8.12	Land Acq. Team progress meetings													0	\$ -	\$ -	\$ -	\$ 3,300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,300
Task 9 - Texas Water Development Board Management																									
9.1	Identify milestone deliverables and provide feedback on CP schedule													0	\$ -	\$ -	\$ 60,665	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,665
9.2	Review TWDB deliverables for conformance to TWDB requirements	18												18	\$ 5,130	\$ -	\$ 23,513	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,643
9.3	Perform regular coordination with the TWDB to discuss ongoing actions	8												8	\$ 2,280	\$ -	\$ 11,908	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,188
9.4	Prepare fund release request letters for submission to TWDB													0	\$ -	\$ -	\$ 8,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,580
9.5	TWDB progress meeting	8												8	\$ 2,280	\$ -	\$ 8,910	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,190
Task 10 - Design Standards Updates																									
10.1	Development of Design Standards, Specifications, and Details													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.1	Transmission Pipelines and Delivery Points Design Stds. - Finalize	3				3				3	3			12	\$ 2,220	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,220
10.1.2	Preparation of Standard Specifications for Const. - Finalize	5	5			5				5	5			25	\$ 4,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,875
10.1.3	Preparation of Standard Details - Finalize	5	5			5				5	5			25	\$ 4,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,875
10.1.4	Pipeline Corrosion Protection Standards	5				5				5	5			10	\$ 2,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,400
10.1.5	Telemetry, Instrumentation & Controls, SCADA, and Security Standards	2												2	\$ 570	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 570
10.1.5.1	Fiber Optic Standards													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.5.2	SCADA Standards													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.5.3	I&C Standards													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.5.4	Security Standards													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.1.6	Facility General Electrical Standards	2												2	\$ 570	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 570
10.2	Master Specifications - Finalize	2	2											4	\$ 1,040	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,040
10.3	Record Drawings (Plans & GIS)	4	6			10								50	\$ 8,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,500
10.4	Address comments from Design Consultant Teams and Finalize													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
10.5	Standards Review Meeting													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Task 11 - Engineering Design Management																									
11.1	Management and Coordination of Hydrogeology/Well Drilling													0	\$ -	\$ -	\$ -	\$							

Alliance Regional Water Authority																			Project Fee Summary							
Owner's Representative / Program Management (Work Order No. 6)																			Total Effort	\$ 1,989,091						
2/4/2022																										
Detailed Overall Kimley-Horn Cost Breakdown																										
Scope of Services																										
Task	Project Role	QA/QC / Senior Mgr / Principal	Senior Tech. Adv. / Deputy Pj Mgr	Senior Engineer	GIS Specialist	Civil Engineer	IT Professional	GIS Developer	CADD Operator / Senior Technician	Engineer-in-Training II	Engineer-in-Training I	GIS Analyst	Administrative Staff / Technician	Total Hours	Total Labor Effort	Total Expense Effort	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions	
	Hourly Bill Rate	\$285.00	\$235.00	\$195.00	\$180.00	\$175.00	\$155.00	\$170.00	\$145.00	\$150.00	\$130.00	\$135.00	\$95.00													
11.3	Management and Coordination of WTP and HSPS													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices	12								4				16	\$ 4,020	\$ -	\$ 1,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,551	\$ 5,571		
	Perform regular coordination with the DC to discuss ongoing tasks	6												6	\$ 1,710	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,710	
	Perform as-needed site visits with Design Consultants													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Other Design-related services as assigned by Alliance Water													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11.4	Management and Coordination of Transmission Pipeline (5 Contracts)													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC	4		9										13	\$ 2,895	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 4,611		
	Assist with the review of proposed LOE developed by the DC	4		9										13	\$ 2,895	\$ -	\$ 858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 858	\$ 3,753		
	Assist with the review of Design Consultants monthly invoices	36		48										84	\$ 19,620	\$ -	\$ 2,574	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,574	\$ 22,194		
	Perform regular coordination with the DC to discuss ongoing tasks	10		40										50	\$ 10,650	\$ -	\$ 39,171	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,171	\$ 49,821		
	Perform as-needed site visits with Design Consultants													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ 3,432	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,432	\$ 3,432		
	Review/Comment on milestone submittals prepared by DC	6		6										12	\$ 2,880	\$ -	\$ 8,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,580	\$ 11,460		
	Review/Comment on OPCC's prepared by DC	2		2										4	\$ 960	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 2,676		
	Other Design-related services as assigned by Alliance Water	12		24										36	\$ 8,100	\$ -	\$ 5,324	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,324	\$ 13,424		
11.5	Management and Coordination of Admin. Building and Ops. Center													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review and provide comments on the PMP prepared by the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Perform initial windshield survey to review the overall Phase 1B projects													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Perform as-needed site visits with Design Consultants													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Other Design-related services as assigned by Alliance Water													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11.6	Management and Coordination of BPS & Delivery Points													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices	12												18	\$ 4,320	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,320	
	Perform regular coordination with the DC to discuss ongoing tasks	6												6	\$ 1,710	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,710	
	Perform as-needed site visits with Design Consultants													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Other Design-related services as assigned by Alliance Water													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
11.7	Management and Coordination of Elevated Storage Tanks													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC	2		4										6	\$ 1,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,350	
	Assist with the review of proposed LOE developed by the DC	2		4										6	\$ 1,350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,350	
	Assist with the review of Design Consultants monthly invoices	12		24										36	\$ 8,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,100	
	Perform regular coordination with the DC to discuss ongoing tasks			24										24	\$ 4,680	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,680	
	Perform as-needed site visits with Design Consultants			5										5	\$ 975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 975	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC	8		12										20	\$ 4,620	\$ -	\$ 3,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,960	\$ 8,580		
	Review/Comment on OPCC's prepared by DC	2		2										4	\$ 960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 960	
	Other Design-related services as assigned by Alliance Water	12		12										24	\$ 5,760	\$ -	\$ 3,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,960	\$ 9,720		
11.8	Management and Coordination of Program Survey													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Identify early actions required													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices	6		6										12	\$ 2,880	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,880	
	Perform regular coordination with the DC to discuss ongoing tasks	3		3										6	\$ 1,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,440	
	Perform as-needed site visits with Design Consultants													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC	2		2	</																					

Alliance Regional Water Authority																			Project Fee Summary							
Owner's Representative / Program Management (Work Order No. 6)																			Total Effort	\$ 1,989,091						
2/4/2022																										
Detailed Overall Kimley-Horn Cost Breakdown																										
Scope of Services																										
Task	Project Role	QA/QC / Senior Mgr / Principal	Senior Tech. Adv. / Deputy Pr. Mgr	Senior Engineer	GIS Specialist	Civil Engineer	IT Professional	GIS Developer	CADD Operator / Senior Technician	Engineer-in-Training II	Engineer-in-Training I	GIS Analyst	Administrative Staff / Technician	Total Hours	Total Labor Effort	Total Expense Effort	Foster CM Group	CP&Y	Grubb	Spitzer	RVK	V&A	Total Sub Effort	Total Effort	Assumptions	
	Hourly Bill Rate	\$285.00	\$235.00	\$195.00	\$180.00	\$175.00	\$155.00	\$170.00	\$145.00	\$150.00	\$130.00	\$135.00	\$95.00													
Task 14 - Permit Coordination/Tracking																										
14.1	Perform regular coordination with Consultants	2												2	\$ 570	\$ -	\$ -	\$ 43,560	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,560	\$ 48,510	
14.2	Incorporate permit updates from Consultants into master tracking list	2												2	\$ 570	\$ -	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 2,286	
14.3	Management of Permit Submittal	6				12								18	\$ 3,810	\$ -	\$ -	\$ 3,960	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,960	\$ 4,530	
14.3.1	TCEQ													0	\$ -	\$ -	\$ -	\$ 29,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,304	\$ 29,304	
14.3.2	TxDOT - Design Consultants													0	\$ -	\$ -	\$ -	\$ 5,148	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,148	\$ 5,148	
14.3.3	UPRR													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.3.4	Counties (Hays, Caldwell, Guadalupe)													0	\$ -	\$ -	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 1,716	
14.3.5	Cities (Kyle, San Marcos, Unland, Lockhart, Maxwell, others)													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
14.3.6	Private utilities													0	\$ -	\$ -	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 1,716	
Task 15 - Procurement and Construction Phase Services																										
15.1	Management and Coordination of Hydrogeology/Well Drilling													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Procurement Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Addenda Review													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Committee and Board Items													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Execution of Contract													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Construction Phase Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Administration													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Preconstruction Meetings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Monthly Construction Meetings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Construction Activities													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Submittals													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Substitutions													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Request for Information													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Pay Request													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Defective Work													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Change Orders													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Record Drawings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Commissioning													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Substantial Completion													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Final Walkthrough													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Warranty Walkthrough													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.2	Management and Coordination of Well Pumps and Raw Water Inf.													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Procurement Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Addenda Review													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Committee and Board Items													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Execution of Contract													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Construction Phase Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Administration	5												5	\$ 1,425	\$ -	\$ 1,716	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,716	\$ 3,141	
	Preconstruction Meetings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Monthly Construction Meetings	2												2	\$ 570	\$ -	\$ 2,574	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,574	\$ 3,144	
	Construction Activities													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Submittals	3												3	\$ 855	\$ -	\$ 13,651	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,651	\$ 14,506	
	Substitutions													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Request for Information	3												3	\$ 855	\$ -	\$ 4,290	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,290	\$ 5,145	
	Pay Request	3												3	\$ 855	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Defective Work													0	\$ -	\$ -	\$ 4,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,070	\$ 4,070	
	Change Orders	3												3	\$ 855	\$ -	\$ 5,412	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,412	\$ 6,267	
	Record Drawings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Commissioning													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Substantial Completion													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Final Walkthrough													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Warranty Walkthrough													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
15.3	Management and Coordination of WTP and HSPS													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Procurement Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Addenda Review													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Committee and Board Items													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Execution of Contract													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Construction Phase Services													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Administration	10												10	\$ 2,850	\$ -	\$ 3,861	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,861	\$ 6,711	
	Preconstruction Meetings													0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	Monthly Construction Meetings	2												2	\$ 570	\$ -	\$ 3,861	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3		

Alliance Water						Project Fee Summary		
Owners Representative						Total Effort	\$	117,890
2/4/2022								
Detailed Overall Foster CM Group Cost Breakdown								

Basic Services									
Task	Project Role	Senior Scheduler	Document Control Specialist		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$220.00	\$125.00						
Task 1 - Program Management Plan Updates									
1.10	Budget and Funding Protocol	4			4	\$ 880	\$ 20	\$ 900	
1.11	Schedule Protocol	4			4	\$ 880	\$ 20	\$ 900	
Task 2 - Stakeholder Coordination									
2.13	Internal Program Monthly Meetings	30			30	\$ 6,600	\$ 100	\$ 6,700	
Task 3 - Budgeting									
3.1	Perform Monthly Budget Updates	240			240	\$ 52,800		\$ 52,800	
3.1.1	Track costs to the Phase 1B Program vs. the anticipated budget				0	\$ -		\$ -	
3.1.2	Coordinate with applicable parties to receive current OPCC data				0	\$ -		\$ -	
3.1.3	Identify budget deviations and coordinate with applicable parties				0	\$ -		\$ -	
3.2	Prepare Budget Updates				0	\$ -		\$ -	
3.2.1	Executive Director (Monthly)	22			22	\$ 4,840	\$ 210	\$ 5,050	
3.2.2	Alliance Water Board and Technical Committee (Quarterly)				0	\$ -		\$ -	
3.2.3	PAC (Quarterly)				0	\$ -		\$ -	
3.2.4	TWDB (Quarterly)				0	\$ -		\$ -	
3.2.5	Public (Quarterly)				0	\$ -		\$ -	
3.3	Program Cost Evaluation				0	\$ -		\$ -	
Task 4 - Schedule									
4.1	Perform Monthly Schedule Updates	114			114	\$ 25,080	\$ -	\$ 25,080	
4.1.1	Coordinate with applicable parties to obtain current schedules				0	\$ -		\$ -	
4.1.2	Identify schedule deviations and coordinate with applicable parties				0	\$ -		\$ -	
4.1.3	Special updates will be performed when critical info becomes known				0	\$ -		\$ -	
Task 5 - Reporting									
Task 6 - Data Management									
6.1	Overall Data Management		180		180	\$ 22,500		\$ 22,500	
6.1.1	Perform admin. Support functions for overall project record keeping				0	\$ -		\$ -	
6.1.2	Enter information into applicable data management system				0	\$ -		\$ -	
6.1.3	Distribute updated contract documents				0	\$ -		\$ -	
6.1.4	Prepare, manage, record, distribute and archive documentation				0	\$ -		\$ -	
6.1.5	Log receipt of all documents and inquiries requiring a response				0	\$ -		\$ -	
6.1.6	Review supporting documents for conformance with PMP				0	\$ -		\$ -	
6.1.7	Maintain project records				0	\$ -		\$ -	
6.1.8	Maintain change management logs, RFI logs, RFP logs, Submittal logs				0	\$ -		\$ -	
6.1.9	Perform internal audits for quality assurance of overall documents				0	\$ -		\$ -	
Task 7 - Environmental Management									
Task 8 - Land Acquisition Management									
Task 9 - Texas Water Development Board Management									
Task 10 - Design Standards Updates									
Task 11 - Engineering Design Management									

Alliance Water				Project Fee Summary			
Owners Representative 2/4/2022				Total Effort	\$ 117,890		
Detailed Overall Foster CM Group Cost Breakdown							

Basic Services								Assumptions
Task	Project Role	Senior Scheduler	Document Control Specialist	Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	
	Hourly Bill Rate	\$220.00	\$125.00					
	Task 12 - Quality Assurance				\$ -	\$ -	\$ -	
	Task 13 - Electrical Power Planning				\$ -	\$ -	\$ -	
	Task 14 - Permit Coordination/Tracking				\$ -	\$ -	\$ -	
	Task 15 - Procurement and Construction Phase Services				\$ -	\$ -	\$ -	
	Task 16 - Project Administration				\$ 3,960	\$ -	\$ 3,960	
16.1	Invoicing	18		18	\$ 3,960		\$ 3,960	
16.2	Project Management			0	\$ -		\$ -	
	Task 17 - Other Services				\$ -	\$ -	\$ -	
	Task 18 - Environmental Construction Phase Services				\$ -	\$ -	\$ -	
Grand Total					\$ 117,540	\$ 350	\$ 117,890	

Alliance Water Owners Representative 2/4/2022 Detailed Overall CPY Group Cost Breakdown	Total Effort	\$	636,536
Project Fee Summary			

Basic Services																				
Task	Project Role	Senior Tech. / Avis / Deputy Prj Mngr	Senior Instrumentation / Electrical Engineer	Senior Engineer	GIS Specialist	Civil Engineer	Senior Biologist	Instrumentati on / Electrical Engineer	CADD Operator / Senior Technician	Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst	Administrativ e Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$225.00	\$195.00	\$180.00	\$175.00	\$165.00	\$170.00	\$145.00	\$150.00	\$130.00	\$120.00	\$135.00	\$95.00						
Task 1 - Program Management Plan Updates																	\$ -	\$ -	\$ -	
Task 2 - Stakeholder Coordination																	\$ 53,080	\$ -	\$ 53,080	
2.1	Stakeholder Identification															0	\$ -	\$ -	\$ -	
2.2	Initial and/or Ongoing Coordination															0	\$ -	\$ -	\$ -	
2.2.1	Executive Director															0	\$ -	\$ -	\$ -	
2.2.2	Technical Committee and Board	4														4	\$ 940	\$ -	\$ 940	
2.2.3	PAC	4														4	\$ 940	\$ -	\$ 940	
2.2.4	Other Alliance Water Consulting Services															0	\$ -	\$ -	\$ -	
2.2.5	Texas Commission on Environmental Quality															0	\$ -	\$ -	\$ -	
2.2.6	Texas Department of Transportation															0	\$ -	\$ -	\$ -	
2.2.7	Union Pacific Railroad															0	\$ -	\$ -	\$ -	
2.2.8	Counties (Hays, Caldwell, Guadalupe)															0	\$ -	\$ -	\$ -	
2.2.9	Cities (Kyle, San Marcos, Umland, Lockhart, Maxwell, others)															0	\$ -	\$ -	\$ -	
2.2.10	GBRA and/or its Consultants															0	\$ -	\$ -	\$ -	
2.2.11	Other Utilities/Entities															0	\$ -	\$ -	\$ -	
2.3	Alliance Water Executive Director coordination meetings	24		24		24	24									96	\$ 18,480	\$ -	\$ 18,480	
2.4	Alliance Water Technical Committee and Board Meetings															0	\$ -	\$ -	\$ -	
2.5	PAC Meetings	4														4	\$ 940	\$ -	\$ 940	
2.6	Other ARWA Consulting Services - as part of Coord. Mtg. with ED.															0	\$ -	\$ -	\$ -	
2.7	Texas Commission on Environmental Quality - Meetings	8				8										16	\$ 3,280	\$ -	\$ 3,280	
2.8	Texas Department of Transportation - Meetings															0	\$ -	\$ -	\$ -	
2.9	Union Pacific Railroad - Meetings															0	\$ -	\$ -	\$ -	
2.10	Counties - Meetings			4												4	\$ 780	\$ -	\$ 780	
2.11	Cities - Meetings															0	\$ -	\$ -	\$ -	
2.12	Other Utilities/Entities - Meetings															0	\$ -	\$ -	\$ -	
2.13	Internal Program Monthly Meetings	36		36		36	36									144	\$ 27,720	\$ -	\$ 27,720	
Task 3 - Budgeting																	\$ -	\$ -	\$ -	
Task 4 - Schedule																	\$ -	\$ -	\$ -	
Task 5 - Reporting																	\$ -	\$ -	\$ -	
Task 6 - Data Management																	\$ -	\$ -	\$ -	
Task 7 - Environmental Management																	\$ 50,160	\$ -	\$ 50,160	
7.1	Perform regular coordination with Env. Cons.						100									100	\$ 16,500	\$ -	\$ 16,500	
7.2	Ongoing agency coordination															0	\$ -	\$ -	\$ -	
7.2.1	United States Army Corps of Engineers (USACE)						16									16	\$ 2,640	\$ -	\$ 2,640	
7.2.2	Texas Parks and Wildlife Department (TPWD)						2									2	\$ 330	\$ -	\$ 330	
7.2.3	Local floodplain administrators						0									0	\$ -	\$ -	\$ -	
7.3	Assist with the review of Env. Cons. monthly invoices						12									12	\$ 1,980	\$ -	\$ 1,980	
7.4	Continuous tracking of Env. Cons. Scope of work & amendments						16									16	\$ 2,640	\$ -	\$ 2,640	
7.5	Perform as-needed site visits with Env. Cons. during Field Study						8									8	\$ 1,320	\$ -	\$ 1,320	
7.6	Coordinated site visits with those identified in Task 8 and 11						2									2	\$ 330	\$ -	\$ 330	
7.7	Review and comment on Environmental Permitting Documents															0	\$ -	\$ -	\$ -	
7.7.1	USACE						24									24	\$ 3,960	\$ -	\$ 3,960	
7.7.2	TPWD						4									4	\$ 660	\$ -	\$ 660	
7.7.3	United States Fish and Wildlife Service (USFWS)						4									4	\$ 660	\$ -	\$ 660	
7.7.4	Texas Historical Commission (THC)						12									12	\$ 1,980	\$ -	\$ 1,980	
7.8	Review and comment on TWDB deliverables by Env. Cons.						48									48	\$ 7,920	\$ -	\$ 7,920	
7.9	Other Environmental Services as defined by Alliance Water						40									40	\$ 6,600	\$ -	\$ 6,600	
7.10	Environmental Agency meetings (USACE, USFWS, TPWD, THC)						6									6	\$ 990	\$ -	\$ 990	
7.11	Environmental Consultant Team progress meetings						10									10	\$ 1,650	\$ -	\$ 1,650	
Task 8 - Land Acquisition Management																	\$ -	\$ -	\$ -	
Task 9 - Texas Water Development Board Management																	\$ 55,150	\$ -	\$ 55,150	
9.1	Identify milestone deliverables and provide feedback on CP schedule					30										42	\$ 7,050	\$ -	\$ 7,050	
9.2	Review TWDB deliverables for conformance to TWDB requirements					75										130	\$ 21,375	\$ -	\$ 21,375	
9.3	Perform regular coordination with the TWDB to discuss ongoing actions					55										63	\$ 10,825	\$ -	\$ 10,825	
9.4	Prepare fund release request letters for submission to TWDB					36										46	\$ 7,800	\$ -	\$ 7,800	
9.5	TWDB progress meeting					36										48	\$ 8,100	\$ -	\$ 8,100	
Task 10 - Design Standards Updates																	\$ -	\$ -	\$ -	
Task 11 - Engineering Design Management																	\$ 69,340	\$ -	\$ 69,340	
11.1	Management and Coordination of Hydrogeology/Well Drilling															0	\$ -	\$ -	\$ -	
	Identify early actions required															0	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices															0	\$ -	\$ -	\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -	\$ -	\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -	\$ -	\$ -	

Alliance Water Owners Representative 2/4/2022 Detailed Overall CPY Group Cost Breakdown	Total Effort	\$	636,536
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Basic Services																				
Task	Project Role	Senior Tech. / Avis / Deputy Prj Mngr	Senior Instrumentation / Electrical Engineer	Senior Engineer	GIS Specialist	Civil Engineer	Senior Biologist	Instrumentati on / Electrical Engineer	CADD Operator / Senior Technician	Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst	Administrativ e Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$225.00	\$195.00	\$180.00	\$175.00	\$165.00	\$170.00	\$145.00	\$150.00	\$130.00	\$120.00	\$135.00	\$95.00						
	Other Design-related services as assigned by Alliance Water															0	\$ -		\$ -	
11.2	Management and Coordination of Well Pumps and Raw Water Inf.															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices			6												6	\$ 1,170		\$ 1,170	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water															0	\$ -		\$ -	
11.3	Management and Coordination of WTP and HSPS															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices	6														6	\$ 1,410		\$ 1,410	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water															0	\$ -		\$ -	
11.4	Management and Coordination of Transmission Pipeline (5 Contracts)															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC			8												8	\$ 1,560		\$ 1,560	
	Assist with the review of proposed LOE developed by the DC			4												4	\$ 780		\$ 780	
	Assist with the review of Design Consultants monthly invoices			12												12	\$ 2,340		\$ 2,340	
	Perform regular coordination with the DC to discuss ongoing tasks	6		160						20						186	\$ 35,610		\$ 35,610	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC			16												16	\$ 3,120		\$ 3,120	
	Review/Comment on milestone submittals prepared by DC			40												40	\$ 7,800		\$ 7,800	
	Review/Comment on OPCC's prepared by DC			8												8	\$ 1,560		\$ 1,560	
	Other Design-related services as assigned by Alliance Water	4		20												24	\$ 4,840		\$ 4,840	
11.5	Management and Coordination of Admin. Building and Ops. Center															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -		\$ -	
	Review and provide comments on the PMP prepared by the DC															0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices															0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -		\$ -	
	Perform initial windshield survey to review the overall Phase 1B projects															0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water															0	\$ -		\$ -	
11.6	Management and Coordination of BPS & Delivery Points															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices															0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -		\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water															0	\$ -		\$ -	
11.7	Management and Coordination of Elevated Storage Tanks															0	\$ -		\$ -	
	Identify early actions required															0	\$ -		\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -		\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -		\$ -	
	Assist with the review of Design Consultants monthly invoices															0	\$ -		\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -		\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -		\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -		\$ -	
	Review/Comment on milestone submittals prepared by DC			16												16	\$ 3,600		\$ 3,600	
	Review/Comment on OPCC's prepared by DC															0	\$ -		\$ -	
	Other Design-related services as assigned by Alliance Water			16												16	\$ 3,600		\$ 3,600	

Alliance Water Owners Representative 2/4/2022 Detailed Overall CPY Group Cost Breakdown	Total Effort	\$	636,536
Project Fee Summary			

Basic Services																				
Task	Project Role	Senior Tech. / Avis / Deputy Prj Mngr	Senior Instrumentation / Electrical Engineer	Senior Engineer	GIS Specialist	Civil Engineer	Senior Biologist	Instrumentati on / Electrical Engineer	CADD Operator / Senior Technician	Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst	Administrativ e Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$225.00	\$195.00	\$180.00	\$175.00	\$165.00	\$170.00	\$145.00	\$150.00	\$130.00	\$120.00	\$135.00	\$95.00						
11.8	Management and Coordination of Program Survey															0	\$ -	\$ -	\$ -	
	Identify early actions required															0	\$ -	\$ -	\$ -	
	Assist with the development and review of project scope for the DC															0	\$ -	\$ -	\$ -	
	Assist with the review of proposed LOE developed by the DC															0	\$ -	\$ -	\$ -	
	Assist with the review of Design Consultants monthly invoices															0	\$ -	\$ -	\$ -	
	Perform regular coordination with the DC to discuss ongoing tasks															0	\$ -	\$ -	\$ -	
	Perform as-needed site visits with Design Consultants															0	\$ -	\$ -	\$ -	
	Review/Comment on TWDB EFR deliverables prepared by DC															0	\$ -	\$ -	\$ -	
	Review/Comment on milestone submittals prepared by DC															0	\$ -	\$ -	\$ -	
	Review/Comment on OPCC's prepared by DC															0	\$ -	\$ -	\$ -	
	Other Design-related services as assigned by Alliance Water															0	\$ -	\$ -	\$ -	
11.9	Commissioning Planning															0	\$ -	\$ -	\$ -	
11.10	Consultant Design Teams progress meetings															0	\$ -	\$ -	\$ -	
11.10.1	Hydrogeology / Well Drilling															0	\$ -	\$ -	\$ -	
11.10.2	Raw Water Facilities															0	\$ -	\$ -	\$ -	
11.10.3	WTP / HSPS															0	\$ -	\$ -	\$ -	
11.10.4	Pipelines			10												10	\$ 1,950	\$ -	\$ 1,950	
11.10.5	Administrative Building and Operations Center															0	\$ -	\$ -	\$ -	
11.10.6	BPS & Delivery Points															0	\$ -	\$ -	\$ -	
11.10.7	Elevated Storage Tanks															0	\$ -	\$ -	\$ -	
11.10.8	Program Survey															0	\$ -	\$ -	\$ -	
	Task 12 - Quality Assurance																\$ 1,400	\$ -	\$ 1,400	
12.1	Review the QA/QC Plans prepared by the Consultants based on PMP															0	\$ -	\$ -	\$ -	
12.2	Perform regular coordination with all Consultants on QA/QC imp.					4										4	\$ 700	\$ -	\$ 700	
12.3	Review/Receive QA/QC documentation from Consultants					4										4	\$ 700	\$ -	\$ 700	
	Task 13 - Electrical Power Planning																\$ -	\$ -	\$ -	
13.1	Perform Prelim. Analyses to determine approx. demand and energy															0	\$ -	\$ -	\$ -	
13.2	Develop a strategy for cont., gathering system quality, and reliability data															0	\$ -	\$ -	\$ -	
13.3	Coordination with Electrical Service Providers to evaluate costs															0	\$ -	\$ -	\$ -	
13.4	Assist Alliance Water with negotiations on the electrical supply agr.															0	\$ -	\$ -	\$ -	
13.5	Assist Alliance Water by defining special equipment needs															0	\$ -	\$ -	\$ -	
13.6	Alliance Water and Electrical Service Providers Coord. Meetings															0	\$ -	\$ -	\$ -	
	Task 14 - Permit Coordination/Tracking																\$ 39,600	\$ -	\$ 39,600	
14.1	Perform regular coordination with Consultants			8												8	\$ 1,560	\$ -	\$ 1,560	
14.2	Incorporate permit updates from Consultants into master tracking list									24						24	\$ 3,600	\$ -	\$ 3,600	
14.3	Management of Permit Submittal															0	\$ -	\$ -	\$ -	
14.3.1	TCEQ	24		0												164	\$ 26,640	\$ -	\$ 26,640	Permit, PWS coord. For Deliv. Points, Corrosion Report
14.3.2	TxDOT – Design Consultants			24												24	\$ 4,680	\$ -	\$ 4,680	Segments C, D, and E
14.3.3	UPRR															0	\$ -	\$ -	\$ -	
14.3.4	Counties (Hays, Caldwell, Guadalupe)				8											8	\$ 1,560	\$ -	\$ 1,560	Floodplain permits (Morrison Creek, others)
14.3.5	Cities (Kyle, San Marcos, Umland, Lockhart, Maxwell, others)															0	\$ -	\$ -	\$ -	
14.3.6	Private utilities				8											8	\$ 1,560	\$ -	\$ 1,560	Segments C and D LCRA gas main
	Task 15 - Procurement and Construction Phase Services																\$ 165,330	\$ -	\$ 165,330	
15.1	Management and Coordination of Hydrogeology/Well Drilling															0	\$ -	\$ -	\$ -	
	Procurement Services															0	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting															0	\$ -	\$ -	\$ -	
	Addenda Review															0	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation															0	\$ -	\$ -	\$ -	
	Committee and Board Items															0	\$ -	\$ -	\$ -	
	Execution of Contract															0	\$ -	\$ -	\$ -	
	Construction Phase Services															0	\$ -	\$ -	\$ -	
	Administration															0	\$ -	\$ -	\$ -	
	Preconstruction Meetings															0	\$ -	\$ -	\$ -	
	Monthly Construction Meetings															0	\$ -	\$ -	\$ -	
	Construction Activities															0	\$ -	\$ -	\$ -	
	Submittals															0	\$ -	\$ -	\$ -	
	Substitutions															0	\$ -	\$ -	\$ -	
	Request for Information															0	\$ -	\$ -	\$ -	
	Pay Request															0	\$ -	\$ -	\$ -	
	Defective Work															0	\$ -	\$ -	\$ -	
	Change Orders															0	\$ -	\$ -	\$ -	
	Record Drawings															0	\$ -	\$ -	\$ -	
	Commissioning															0	\$ -	\$ -	\$ -	
	Substantial Completion															0	\$ -	\$ -	\$ -	
	Final Walkthrough															0	\$ -	\$ -	\$ -	

Alliance Water Owners Representative 2/4/2022 Detailed Overall CPY Group Cost Breakdown	Total Effort	\$	636,536
Project Fee Summary			

Basic Services																				
Task	Project Role	Senior Tech. / Avis / Deputy Prj Mngr	Senior Instrumentation / Electrical Engineer	Senior Engineer	GIS Specialist	Civil Engineer	Senior Biologist	Instrumentati on / Electrical Engineer	CADD Operator / Senior Technician	Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst	Administrativ e Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$225.00	\$195.00	\$180.00	\$175.00	\$165.00	\$170.00	\$145.00	\$150.00	\$130.00	\$120.00	\$135.00	\$95.00						
15.2	Warranty Walkthrough															0	\$ -	\$ -	\$ -	
	Management and Coordination of Well Pumps and Raw Water Inf.															0	\$ -	\$ -	\$ -	
	Procurement Services															0	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting															0	\$ -	\$ -	\$ -	
	Addenda Review															0	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation															0	\$ -	\$ -	\$ -	
	Committee and Board Items															0	\$ -	\$ -	\$ -	
	Execution of Contract															0	\$ -	\$ -	\$ -	
	Construction Phase Services															0	\$ -	\$ -	\$ -	
	Administration			8												8	\$ 1,560	\$ 1,560	\$ 1,560	
	Preconstruction Meetings															0	\$ -	\$ -	\$ -	
	Monthly Construction Meetings			12												12	\$ 2,340	\$ 2,340	\$ 2,340	
	Construction Activities															0	\$ -	\$ -	\$ -	
	Submittals	6	16	24				16	0							62	\$ 12,410	\$ 12,410	\$ 12,410	
	Substitutions															0	\$ -	\$ -	\$ -	
	Request for Information			20												20	\$ 3,900	\$ 3,900	\$ 3,900	
	Pay Request															0	\$ -	\$ -	\$ -	
	Defective Work	4		8					8							20	\$ 3,700	\$ 3,700	\$ 3,700	
	Change Orders		8	16												24	\$ 4,920	\$ 4,920	\$ 4,920	
	Record Drawings															0	\$ -	\$ -	\$ -	
	Commissioning															0	\$ -	\$ -	\$ -	
	Substantial Completion															0	\$ -	\$ -	\$ -	
	Final Walkthrough															0	\$ -	\$ -	\$ -	
15.3	Warranty Walkthrough															0	\$ -	\$ -	\$ -	
	Management and Coordination of WTP and HSPS															0	\$ -	\$ -	\$ -	
	Procurement Services															0	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting															0	\$ -	\$ -	\$ -	
	Addenda Review															0	\$ -	\$ -	\$ -	
	Proposal Evaluation and Recommendation															0	\$ -	\$ -	\$ -	
	Committee and Board Items															0	\$ -	\$ -	\$ -	
	Execution of Contract															0	\$ -	\$ -	\$ -	
	Construction Phase Services															0	\$ -	\$ -	\$ -	
	Administration	6				12										18	\$ 3,510	\$ 3,510	\$ 3,510	
	Preconstruction Meetings															0	\$ -	\$ -	\$ -	
	Monthly Construction Meetings	6				12										18	\$ 3,510	\$ 3,510	\$ 3,510	
	Construction Activities															0	\$ -	\$ -	\$ -	
	Submittals	8	40			24		40								112	\$ 21,880	\$ 21,880	\$ 21,880	
	Substitutions	8				16										24	\$ 4,680	\$ 4,680	\$ 4,680	
	Request for Information	8				24										32	\$ 6,080	\$ 6,080	\$ 6,080	
	Pay Request															0	\$ -	\$ -	\$ -	
	Defective Work															0	\$ -	\$ -	\$ -	
	Change Orders	4	16			8										28	\$ 5,940	\$ 5,940	\$ 5,940	
	Record Drawings							0								0	\$ -	\$ -	\$ -	
	Commissioning		0													0	\$ -	\$ -	\$ -	
	Substantial Completion															0	\$ -	\$ -	\$ -	
	Final Walkthrough															0	\$ -	\$ -	\$ -	
15.4	Warranty Walkthrough															0	\$ -	\$ -	\$ -	
	Management and Coordination of Transmission Pipeline (5 Contracts)															0	\$ -	\$ -	\$ -	
	Procurement Services															0	\$ -	\$ -	\$ -	
	Pre-Proposal Meeting			8												8	\$ 1,560	\$ 1,560	\$ 1,560	
	Addenda Review			16												16	\$ 3,120	\$ 3,120	\$ 3,120	
	Proposal Evaluation and Recommendation			4												4	\$ 780	\$ 780	\$ 780	
	Committee and Board Items			4												4	\$ 780	\$ 780	\$ 780	
	Execution of Contract			8												8	\$ 1,560	\$ 1,560	\$ 1,560	
	Construction Phase Services															0	\$ -	\$ -	\$ -	
	Administration		16	16												32	\$ 6,720	\$ 6,720	\$ 6,720	
	Preconstruction Meetings			8												8	\$ 1,560	\$ 1,560	\$ 1,560	
	Monthly Construction Meetings			12												12	\$ 2,340	\$ 2,340	\$ 2,340	
	Construction Activities															0	\$ -	\$ -	\$ -	
	Submittals	0	80	16				20	8							124	\$ 25,720	\$ 25,720	\$ 25,720	
	Substitutions															0	\$ -	\$ -	\$ -	
	Request for Information			20	4			20								44	\$ 8,680	\$ 8,680	\$ 8,680	
	Pay Request															0	\$ -	\$ -	\$ -	
	Defective Work	0		0					0							0	\$ -	\$ -	\$ -	
	Change Orders		16	0												16	\$ 3,600	\$ 3,600	\$ 3,600	
	Record Drawings		0					0								0	\$ -	\$ -	\$ -	
	Commissioning															0	\$ -	\$ -	\$ -	
	Substantial Completion															0	\$ -	\$ -	\$ -	
	Final Walkthrough															0	\$ -	\$ -	\$ -	
15.5	Warranty Walkthrough															0	\$ -	\$ -	\$ -	
	Management and Coordination of Admin. Building and Ops. Center															0	\$ -	\$ -	\$ -	

Alliance Water Owners Representative 2/4/2022 Detailed Overall CPY Group Cost Breakdown	Total Effort	\$	636,536
Project Fee Summary			

Basic Services																				
Task	Project Role	Senior Tech. / Avis / Deputy Prj Mngr	Senior Instrumentation / Electrical Engineer	Senior Engineer	GIS Specialist	Civil Engineer	Senior Biologist	Instrumentation / Electrical Engineer	CADD Operator / Senior Technician	Engineer-in- Training II	Engineer-in- Training I	Biologist	GIS Analyst	Administrative Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$225.00	\$195.00	\$180.00	\$175.00	\$165.00	\$170.00	\$145.00	\$150.00	\$130.00	\$120.00	\$135.00	\$95.00						
	Procurement Services															0	\$ -		\$ -	
	Pre-Proposal Meeting															0	\$ -		\$ -	
	Addenda Review															0	\$ -		\$ -	
	Proposal Evaluation and Recommendation															0	\$ -		\$ -	
	Committee and Board Items															0	\$ -		\$ -	
	Execution of Contract															0	\$ -		\$ -	
	Construction Phase Services															0	\$ -		\$ -	
	Administration															0	\$ -		\$ -	
	Preconstruction Meetings															0	\$ -		\$ -	
	Monthly Construction Meetings															0	\$ -		\$ -	
	Construction Activities															0	\$ -		\$ -	
	Submittals															0	\$ -		\$ -	
	Substitutions															0	\$ -		\$ -	
	Request for Information															0	\$ -		\$ -	
	Pay Request															0	\$ -		\$ -	
	Defective Work															0	\$ -		\$ -	
	Change Orders															0	\$ -		\$ -	
	Record Drawings															0	\$ -		\$ -	
	Commissioning															0	\$ -		\$ -	
	Substantial Completion															0	\$ -		\$ -	
	Final Walkthrough															0	\$ -		\$ -	
	Warranty Walkthrough															0	\$ -		\$ -	
15.6	Management and Coordination of BPS & Delivery Points															0	\$ -		\$ -	
	Procurement Services															0	\$ -		\$ -	
	Pre-Proposal Meeting															0	\$ -		\$ -	
	Addenda Review															0	\$ -		\$ -	
	Proposal Evaluation and Recommendation															0	\$ -		\$ -	
	Committee and Board Items															0	\$ -		\$ -	
	Execution of Contract															0	\$ -		\$ -	
	Construction Phase Services															0	\$ -		\$ -	
	Administration		16													16	\$ 3,600		\$ 3,600	
	Preconstruction Meetings															0	\$ -		\$ -	
	Monthly Construction Meetings															0	\$ -		\$ -	
	Construction Activities															0	\$ -		\$ -	
	Submittals		80					32								112	\$ 23,440		\$ 23,440	
	Substitutions															0	\$ -		\$ -	
	Request for Information															0	\$ -		\$ -	
	Pay Request															0	\$ -		\$ -	
	Defective Work															0	\$ -		\$ -	
	Change Orders															0	\$ -		\$ -	
	Record Drawings		4					4								8	\$ 1,580		\$ 1,580	
	Commissioning															0	\$ -		\$ -	
	Substantial Completion															0	\$ -		\$ -	
	Final Walkthrough															0	\$ -		\$ -	
	Warranty Walkthrough															0	\$ -		\$ -	
15.7	Management and Coordination of Elevated Storage Tanks															0	\$ -		\$ -	
	Procurement Services															0	\$ -		\$ -	
	Pre-Proposal Meeting															0	\$ -		\$ -	
	Addenda Review		4													4	\$ 900		\$ 900	
	Proposal Evaluation and Recommendation															0	\$ -		\$ -	
	Committee and Board Items															0	\$ -		\$ -	
	Execution of Contract															0	\$ -		\$ -	
	Construction Phase Services															0	\$ -		\$ -	
	Administration															0	\$ -		\$ -	
	Preconstruction Meetings															0	\$ -		\$ -	
	Monthly Construction Meetings															0	\$ -		\$ -	
	Construction Activities															0	\$ -		\$ -	
	Submittals		16					8								24	\$ 4,960		\$ 4,960	
	Substitutions															0	\$ -		\$ -	
	Request for Information															0	\$ -		\$ -	
	Pay Request															0	\$ -		\$ -	
	Defective Work															0	\$ -		\$ -	
	Change Orders															0	\$ -		\$ -	
	Record Drawings															0	\$ -		\$ -	
	Commissioning															0	\$ -		\$ -	
	Substantial Completion		0													0	\$ -		\$ -	
	Final Walkthrough															0	\$ -		\$ -	
	Warranty Walkthrough															0	\$ -		\$ -	
15.8	Management and Coordination of Program Survey															0	\$ -		\$ -	
	Procurement Services															0	\$ -		\$ -	
	Pre-Proposal Meeting															0	\$ -		\$ -	

Alliance Water Owners Representative 2/4/2022 Detailed Overall Grubb Cost Breakdown	Project Fee Summary	
	Total Effort	\$ 25,850

Basic Services										
Task	Project Role	QA/QC / Senior Mgr / Principal	Senior Engineer	Administrative Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$285.00	\$195.00	\$95.00						
Task 13 - Electrical Power Planning										
13.1	Perform Prelim. Analyses to determine approx. demand and energy	8	4	0		12	\$ 3,060	-	\$ 3,060	
13.2	Develop a strategy for cont., gathering system quality, and reliability data	4	5	0		9	\$ 2,115	-	\$ 2,115	
13.3	Coordination with Electrical Service Providers to evaluate costs	12	9	0		21	\$ 5,175	-	\$ 5,175	
13.4	Assist Alliance Water with negotiations on the electrical supply agr.	20	8	0		28	\$ 7,260	-	\$ 7,260	
13.5	Assist Alliance Water by defining special equipment needs	4	4	0		8	\$ 1,920	-	\$ 1,920	
13.6	Alliance Water and Electrical Service Providers Coord. Meetings	10	10	0		20	\$ 4,800	-	\$ 4,800	
Task 16 - Project Administration										
16.1	Invoicing	0	0	16		16	\$ 1,520	-	\$ 1,520	
16.2	Project Management					0	\$ -	-	\$ -	
Grand Total							\$ 25,850	\$ -	\$ 25,850	

Alliance Water						Project Fee Summary		
Owners Representative 2/4/2022						Total Effort	\$	399,180
Detailed Overall Spitzer Cost Breakdown								

Basic Services										
Task	Project Role	Property Acquisition Manager	Acquisition / Title Specialist	Document Control Specialist		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$235.00	\$140.00	\$125.00						
	Task 1 - Program Management Plan Updates						\$ 1,800	\$ -	\$ 1,800	
1.6	Land Acquisition Protocol	5		5		10	\$ 1,800		\$ 1,800	
	Task 2 - Stakeholder Coordination						\$ 20,680	\$ -	\$ 20,680	
2.3	Alliance Water Executive Director coordination meetings	48				48	\$ 11,280		\$ 11,280	
2.13	Internal Program Monthly Meetings	40				40	\$ 9,400		\$ 9,400	
	Task 3 - Budgeting						\$ -	\$ -	\$ -	
	Task 4 - Schedule						\$ -	\$ -	\$ -	
	Task 5 - Reporting						\$ -	\$ -	\$ -	
	Task 6 - Data Management						\$ -	\$ -	\$ -	
	Task 7 - Environmental Management						\$ -	\$ -	\$ -	
	Task 8 - Land Acquisition Management						\$ 373,790	\$ -	\$ 373,790	
8.1	Perform regular coordination with Ld. Acq. Cons.	500		1,000		1,500	\$ 242,500		\$ 242,500	
8.2	Assist with the review of Ld. Acq. Cons. monthly invoices	10		12		22	\$ 3,850		\$ 3,850	
8.3	Continuous tracking of Land Acq. Scope of work & amendments	10				10	\$ 2,350		\$ 2,350	
8.4	Review land acquisition data for conformance to the PMP/RAMP	24		40		64	\$ 10,640		\$ 10,640	
8.5	Perform as-needed site visits with Ld. Acq. Cons.	5				5	\$ 1,175		\$ 1,175	
8.6	Coordinated site visits with those identified in Task 7 and 11	5	5			10	\$ 1,875		\$ 1,875	
8.7	Review and comment on TWDB land acquisition deliverables	5		40		45	\$ 6,175		\$ 6,175	
8.8	Coord. with landowners to facilitate access for Consultants for field work	5	40			45	\$ 6,775		\$ 6,775	
8.9	Assist in resolution of title issues		500	72		572	\$ 79,000		\$ 79,000	
8.10	Weekly Mtg with Alliance Water and Special Counsel	52				52	\$ 12,220		\$ 12,220	
8.11	Other Ld. Acq. services as identified and assigned by Alliance Water					0	\$ -		\$ -	
8.12	Land Acq. Team progress meetings	6	6	6		18	\$ 3,000		\$ 3,000	
	Task 9 - Texas Water Development Board Management						\$ -	\$ -	\$ -	
	Task 10 - Design Standards Updates						\$ -	\$ -	\$ -	
	Task 11 - Engineering Design Management						\$ -	\$ -	\$ -	
	Task 12 - Quality Assurance						\$ -	\$ -	\$ -	
	Task 13 - Electrical Power Planning						\$ -	\$ -	\$ -	
	Task 14 - Permit Coordination/Tracking						\$ -	\$ -	\$ -	
	Task 15 - Procurement and Construction Phase Services						\$ -	\$ -	\$ -	
	Task 16 - Project Administration						\$ 2,910	\$ -	\$ 2,910	
16.1	Invoicing	6		12		18	\$ 2,910		\$ 2,910	
16.2	Project Management					0	\$ -		\$ -	
	Task 17 - Other Services						\$ -	\$ -	\$ -	
	Task 18 - Environmental Construction Phase Services						\$ -	\$ -	\$ -	
Grand Total							\$ 399,180	\$ -	\$ 399,180	

Alliance Water										Project Fee Summary		
Owners Representative 2/4/2022 Detailed Overall V&A Cost Breakdown										Total Effort	\$	18,999

Basic Services														
Task	Project Role	QA/QC / Senior Mngr / Principal	Senior Tech. Avis / Deputy Prj Mngr	Senior Engineer	Civil Engineer	CADD Operator / Senior Technician	Engineer-in-Training I	Administrative Staff / Technician		Total Hours	Total Labor Effort	Total Expense Effort	Total Effort	Assumptions
	Hourly Bill Rate	\$285.00	\$235.00	\$195.00	\$175.00	\$145.00	\$130.00	\$95.00						
Task 10 - Design Standards Updates														
10.1	Development of Design Standards, Specifications, and Details									0	\$ -	\$ -	\$ -	
10.1.1	Transmission Pipelines and Delivery Points Design Stds. - Finalize									0	\$ -	\$ -	\$ -	
10.1.2	Preparation of Standard Specifications for Const. - Finalize									0	\$ -	\$ -	\$ -	
10.1.3	Preparation of Standard Details - Finalize									0	\$ -	\$ -	\$ -	
10.1.4	Pipeline Corrosion Protection Standards	2	18	20	14	4	24	4	86	\$ 15,230	\$ 174	\$ 15,404	300 miles of travel	
Task 16 - Project Administration														
16.1	Invoicing							10	10	\$ 950	\$ -	\$ 950		
16.2	Project Management	2	8	1					11	\$ 2,645	\$ -	\$ 2,645		
Grand Total										\$ 18,825	\$ 174	\$ 18,999		

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

- 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. ~ *Graham Moore, P.E., Executive Director*

Background/Information

The Authority issued RFQ 2020-003 in December 2020 for the Materials Testing Services for the Authority's Phase 1B Program. A work order was entered into with the highest scoring proponent in July 2021 for material testing at the Water Treatment Plant project.

Staff is negotiating work orders with HVJ for material testing associated with the Booster Pump Station project and the Segment A pipeline. The proposals are not yet finalized and therefore are not ready for presentation to the Technical Committee.

Technical Committee Decision Needed:

- Possible direction to Staff.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

F.8 Discussion and possible recommendation to the Board for the Authority to join the Texas 811 system. ~ *Graham Moore, P.E., Executive Director*

Background/Information

Texas 811 is part of the One-Call system whose purpose is to setup a system that contractors can call for underground utilities before they commence digging. With the Authority's Phase 1A infrastructure in place, Staff has been called on two occasions to locate its waterline. These types of calls will continue to increase as the area develops further and as the Authority's infrastructure expands.

Staff reached out to the Texas 811 system. There are no long-term contracts, no setup fees and no monthly fees associated with joining the system. The cost for notification is \$0.95 each.

Joining the Texas 811 system will meet the Authority's requirement to provide utility locates when requested by contractors.

Technical Committee Decision Needed:

- Possible recommendation to the Board to authorize joining the Texas 811 system.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

- 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.
~ *Graham Moore, P.E., Executive Director*
-

Gonzales County Underground Water Conservation District (GCUWCD)

The GCUWCD is scheduled to meet on February 8th.

Plum Creek Conservation District (PCCD)

The PCCD is scheduled to meet on February 15th.

Groundwater Management Area 13

No update.

Region L Planning Group

The Region L meeting originally scheduled for February 3rd is being rescheduled due to inclement weather.

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, February 9th, 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*

Consultant Invoices Paid

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

FY 21-22 CONSULTANT INVOICES PAID IN JANUARY 2022

Consultant	Total Authorized	Current Invoice	Invoiced-to-Date	% of Contract Invoiced	Remaining	Notes/Anomalies
RW Harden	\$30,000.00	\$285.00	\$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	\$15,962.00	\$49,983.00	20%	\$205,017.00	
Lloyd Gosselink Rochelle & Townsend	\$125,000.00	\$11,340.70	\$18,135.77	15%	\$106,864.23	
CD&P - Public Relations	\$50,000.00	\$9,983.96	\$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	
Total	\$524,805.58	\$37,571.66	\$78,387.73		\$446,417.85	

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 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 January.

PHASE 1B FY 20-21 CONSULTANT INVOICES PAID IN JANUARY 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	\$0.00	\$328,600.45	27%	\$882,782.27	
Blanton - Environmental	\$148,572.15	\$77,487.14	\$77,487.14	52%	\$71,085.01	
LAN - Segment A Final	\$37,197.04	\$520.00	\$28,001.36	75%	\$9,195.68	
LAN - Segment A Construction	\$605,957.91	\$11,256.12	\$11,256.12	2%	\$594,701.79	
KFA - Segment B Final	\$89,769.42	11079-November 20	\$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	\$27,796.51	\$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	\$286,815.35	\$13,597.50	\$25,536.09	9%	\$261,279.26	
LAN - ROW Acquisition	\$741,441.42	\$36,759.89	\$61,252.97	8%	\$680,188.45	
DTR&G	\$2,000,000.00	\$256,652.79	\$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	\$55,310.50	\$80,559.50	23%	\$277,174.50	
RW Harden - WDH Const Admin	\$12,470.00	\$3,364.00	\$8,004.00	64%	\$4,466.00	
LNV - RWI	\$113,027.50	\$3,625.00	\$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	\$286,990.20	\$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	\$1,089,020.22	\$75,830.96	\$117,063.52	11%	\$971,956.70	
LNV/Ardurura - RWI CA Svcs	\$340,160.00	\$11,490.00	\$11,490.00	3%	\$328,670.00	
FNI - BPS CA Svcs	\$494,734.50	\$6,149.75	\$12,346.00	2%	\$482,388.50	
CP&Y - SCADA Programming Svcs	\$821,470.94	\$0.00	\$82,025.54	10%	\$739,445.40	
HVJ - Materials Testing (WTP)	\$473,148.75	\$13,477.25	\$24,922.25	5%	\$448,226.50	
Total	\$12,188,349.94	\$880,307.61	\$2,186,395.66	18%	\$10,001,954.28	

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

Approved Change Orders

No Change Orders were approved in January 2022.

REGULAR MEETING
Alliance Regional Water Authority Technical Committee

COMMITTEE MEMBER PACKETS

Wednesday, February 9th, 2022 at 3:00 P.M.

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

- 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, February 9th, 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, February 9th, 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

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J. ADJOURNMENT
