MINUTES OF THE ADJOURNED MEETING OF THE
BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT

September 23, 2026

An Adjourned Meeting of the Board of Directors of Vista Irrigation District was held on Wednesday, September 23, 2026, at the offices of the District, 1391 Engineer Street, Vista, California.

1. CALL TO ORDER

President Miller called the meeting to order at 9:00 a.m.

2. ROLL CALL

Directors present: Miller, Nuñez, Kuchinsky, Sanchez, and MacKenzie.

Directors absent: None.

Staff present: Brett Hodgkiss, General Manager; Elizabeth Xaverius, Assistant Secretary of the Board; Lesley Dobalian, Director of Water Resources; Randy Whitmann, Director of Engineering; Frank Wolinski, Director of Operations and Field Services; Shallako Goodrick, Director of Administration; and Greg Keppler, Engineering Project Manager. Assistant General Counsel Gena Burns of Burke, Williams & Sorensen was also present.

Other attendees: Jerimy Billy of the San Luis Rey Indian Water Authority; Angela Baggett of the City of Vista; J.P. Semper, Joel Weakland, and Haili Matsukawa of Brown and Caldwell; Adam Hoch of Hoch Consulting; John Bekmanis of Black and Veatch; and Alex Hardy of Dudek.

3. PLEDGE OF ALLEGIANCE

Director Kuchinsky led the Pledge of Allegiance.

4. APPROVAL OF AGENDA

26-09-83	***Upon motion by Director Kuchinsky, seconded by Director MacKenzie and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved the agenda as presented.***

5. ORAL COMMUNICATIONS

No public comments were presented on items not appearing on the agenda.

6. CONSENT CALENDAR

Consent Calendar item 6.A Power Cables for Lake Henshaw Oxygenation Pilot Study was pulled for further discussion.

26-09-84	***Upon motion by Director Sanchez, seconded by Director MacKenzie the Board of Directors approved the Consent Calendar items 6.B, 6.C and 6.D, including Resolution No. 2026-25, celebrating the 50th Anniversary of the Escondido/Vista Water Treatment Plant by the following roll call vote:***

AYES: *Directors Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller*
NOES: *None*
ABSENT: *None*
ABSTAIN: *None*

Resolution No. 2026-25 is on file in the official Resolution book of the District.

B. 50th Anniversary of the Escondido/Vista Water Treatment Plant

See staff report attached hereto. Staff recommended and the Board adopted Resolution No. 2026-25 celebrating the 50th Anniversary of the Escondido/Vista Water Treatment Plant.

C. Minutes of Board of Directors meeting on September 9, 2026

The minutes of September 9, 2026 were approved as presented.

D. Resolution ratifying check disbursements

RESOLUTION NO. 2026-26

BE IT RESOLVED, that the Board of Directors of Vista Irrigation District does hereby approve checks numbered 80525 through 80612 drawn on US Bank totaling $919,312.08.

FURTHER RESOLVED that the Board of Directors does hereby authorize the execution of the checks by the appropriate officers of the District.

PASSED AND ADOPTED unanimously by a roll call vote of the Board of Directors of Vista Irrigation District this 23rd day of September 2026.

A. Power Cables for Lake Henshaw Oxygenation Pilot Study

See staff report attached hereto.

The Board received clarification regarding the security, storage and expected lifespan of the power cables.

26-09-85	***Upon motion by Director Kuchinsky, seconded by Director Sanchez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved item 6.A, approving the purchase of Power Cables from Electric Sales in the amount of $176,697.37.***

7. REQUEST FOR LETTER OF SUPPORT FOR VISTA COMMUNITY RESILIENCE CENTER GRANT APPLICATION

See staff report attached hereto.

General Manager Brett Hodgkiss provided an overview of the item, stating the City of Vista is seeking $10 million in grant funding from the California Strategic Growth Council to build a Community Resilience Center (CRC) at Luz Duran Park which will provide year-round community services and temporary emergency capacity in the event of disasters or other emergency events. He added the CRC project would also provide an opportunity to incorporate water-efficient design, conservation practices and a community education component. Mr. Hodgkiss noted that the City's deadline for submitting their grant application is September 30, 2026.

Mr. Hodgkiss said that Angela Baggett, Management Analyst/Grant Writer for the City of Vista, was available to answer questions from the Board. Ms. Baggett informed the Board that the City's Director of Parks and Community Resources will oversee the programing at the CRC. She also explained how the facility would be utilized when it was not be used during emergency events.

26-09-86	***Upon motion by Director Sanchez, seconded by Director Nuñez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors approved submitting a letter of support for the City of Vista's Community Resilience Center grant application.***

8. ENVIRONMENTAL, ENGINEERING AND DESIGN SERVICES FOR THE VISTA FLUME REPLACEMENT PIPELINE PROJECT

See staff report attached hereto.

Director of Engineering Randy Whitmann provided an overview of the Request for Proposals (RFP) for environmental, engineering and design services for the Vista Flume Replacement Pipeline Project. He stated that the District received four responsive proposals and that the selection committee ranked Brown and Caldwell as the most qualified and responsive firm.

Mr. Whitmann noted that while consultant selection was not based on estimated fees, staff reviewed all the fee proposals and found a very wide range corresponding to considerable variability between each firm's level of effort assumptions and options. He stated that after evaluating the proposals against a baseline scope of work with the allocation of staff resources requested in the RFP, staff is comfortable with $14 million to $15 million being an appropriate un-escalated baseline fee for this project. Mr. Whitmann said that an un-escalated baseline fee of $14.2 million was negotiated with Brown and Caldwell and further negotiated a 7.6% increase in the fee (to $15.3 million) to allow a one-time increase for future cost-of-living/inflation adjustments. He reviewed the baseline scope of work and optional services proposed by Brown and Caldwell, and recommended including several of the optional items at this time for a total not-to-exceed amount of $18,365,947.

Mr. Whitmann summarized the other optional services which are not requested to be awarded at this time but may be necessary in the future. He noted that Rincon del Diablo Municipal Water District, the City of Escondido and San Diego County Water Authority (Water Authority) may request for the District to partner with them (through reimbursement agreements) to utilize this contract to design impacted or closely related facilities.

Mr. Whitmann stated that once the District begins the project, it is anticipated that the Engineering Projects department will need to hire a new mid-level engineer. If that is not successful, a consultant may be needed during design to assist with program management and design reviews. The Board discussed various options pertaining to the onboarding of a new hire and/or a consultant. Mr. Hodgkiss stated that given the number of upcoming capital projects and anticipated retirement of several employees, hiring a new mid-level engineer could also assist with the Engineering Division's workforce development/succession planning efforts.

Mr. Whitmann stated additional consultant services will be needed during construction for construction management and inspection services; these services will be pursued through a separate RFP/ Board approval process.

Mr. Whitmann provided clarification regarding the escalation of hourly rates pertaining to Brown and Caldwell's fees and the estimated timeline for the first deliverables.

26-09-87	***Upon motion by Director Sanchez, seconded by Director MacKenzie and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors awarded and authorized the General Manager to enter into an Agreement for Professional Services with Brown and Caldwell to provide environmental, engineering and design services for the Vista Flume Replacement Pipeline Project in an amount not-to-exceed $18,365,947 and found that entering into an Agreement for Professional Services with Brown and Caldwell for environmental, engineering and design services for the Vista Flume Replacement Pipeline Project is exempt from the California Environmental Quality Act.***

9. 2026 ONE-TIME PURCHASE OF RINCON ENTITLEMENT WATER

See staff report attached hereto.

Mr. Hodgkiss stated that the Rincon Band of Luiseño Indians proposed an arrangement under which the District and City of Escondido (Local Entities) would purchase all remaining 2026 Rincon Entitlement Water (REW) at the cost of $500 per acre foot. He noted that the cost is considerably less than the current cost of purchased raw water from the Water Authority ($1,490 per acre foot). Mr. Hodgkiss stated that by purchasing 250 acre feet of REW (rather purchased raw water from the Water Authority), the District would save $247,500 in purchased water costs.

Director Sanchez asked if this was the first time that the Rincon Band has approached the Local Entities with this proposal, and if it could happen again in the future. Mr. Hodgkiss said that this was the first time the Local Entities have been approached with this type arrangement; similar arrangements in the future would need further discussion.

26-09-88	***Upon motion by Director MacKenzie, seconded by Director Nuñez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors authorized the General Manager to purchase up to 250 acre feet of Rincon Entitlement Water at a price of $500 per acre foot with the total not to exceed $125,000.***

10. MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

See staff report attached hereto.

President Miller reported that the Water Authority Board approved an amendment to an agreement with Valley Center Municipal Water District and Yuima Municipal Water District for the Emergency Water Storage Project Improvements in Valley Center and Yuima Municipal Water Districts . He also said that Water Authority Board officers were elected; Frank Hilliker, Chair, Teresa Acosta, Vice Chair, and Ishmahan Abullahi, Secretary.

11. MEETINGS AND EVENTS

See staff report attached hereto.

Director MacKenzie requested authorization to attend a pre-conference meeting of the Colorado River Water Users Association Conference (CRUWA) on December 8, 2026.

President Miller requested authorization to attend the California Special District Association (CSDA) Quarterly Dinner Meeting on November 19, 2026.

26-09-89	***Upon motion by Director Kuchinsky, seconded by Director Sanchez and unanimously carried (5 ayes: Nuñez, Kuchinsky, Sanchez, MacKenzie, and Miller), the Board of Directors authorized the following travel and attendance: Directors MacKenzie to attend the pre-conference meeting of the CRUWA Conference on December 8, 2026, and Directors Miller to attend the CSDA Quarterly Dinner on November 19, 2026.***

12. ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

See staff report attached hereto.

Director Sanchez commented on logistics for the October 14, 2026 Special Board meeting.

13. COMMENTS BY DIRECTORS

Director Kuchinsky commented on the news regarding the development of artificial intelligence centers noting it was not likely applicable to the District.

14. COMMENTS BY GENERAL COUNSEL

Assistant General Counsel Gena Burns informed the Board that Occupational Safety and Health Standards Board must adopt a workplace violence prevention standard by December 31, 2026.

15. COMMENTS BY GENERAL MANAGER

Mr. Hodgkiss informed the Board that former Special Counsel Scott Morris with Kronick recently passed away. He also informed the Board that he is required to call in for the federal jury duty beginning October 4, 2026.

16. CLOSED SESSION FOR CONFERENCE WITH REAL PROPERTY NEGOTIATOR

Discussion concerning real property transactions in compliance with Government Code section 54956.8 regarding:

Property:	*Unaddressed property commonly known as part of Warner Ranch (136-160-43-00)*
VID Negotiator:	*Brett Hodgkiss, General Manager*
Negotiating Party:	*United States Department of Navy*
Under Negotiation:	*Lease and License Agreement Price and Terms*

At 10:54 a.m. President Miller announced that the Board would be going into closed session to discuss agenda items 16 and 17.

17. CLOSED SESSION - PUBLIC EMPLOYEE APPOINTMENT – GENERAL MANAGER

Public employee appointment pursuant to Government Code section 54957.

At 11:30 a.m. the Board returned to regular session. Ms. Burns stated the following: for agenda item 16, there was direction given and no reportable action; and for agenda item 17, there was no reportable action.

18. ADJOURNMENT

There being no further business to come before the Board, at 11:31 a.m., President Miller adjourned the meeting.

Jo MacKenzie, Vice President

ATTEST:

Elizabeth Xaverius, Assistant Secretary
Board of Directors
VISTA IRRIGATION DISTRICT

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 6.A** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Lesley Dobalian** **Approved By:** **Brett Hodgkiss**

SUBJECT: POWER CABLES FOR LAKE HENSHAW OXYGENATION PILOT STUDY

RECOMMENDATION: Approve the purchase of power cables from Electric Sales in the amount of $176,697.37.

PRIOR BOARD ACTION: At its April 15, 2026 meeting, the Board authorized the General Manager to execute a lease for oxygen nanobubble treatment equipment and maintenance and a professional services agreement for onsite commissioning, project management and data analysis with Moleaer Inc. for the Lake Henshaw Oxygenation Pilot Study (Pilot Study). The Board found that the Pilot Study is categorically exempt from the California Environmental Quality Act. At its September 9, 2026 meeting, the Board authorized the General Manager to execute a professional services agreement for permitting, water quality monitoring design, and data analysis and evaluation with Stillwater Sciences for the Pilot Study.

FISCAL IMPACT: $176,697.37, including tax and freight; Pilot Study costs will be shared equally by the District and the City of Escondido, so the District's portion of the power cable cost is $88,348.69. The Fiscal Year 2027 budget includes $842,830 for costs related to the Pilot Study.

SUMMARY: The District solicited bids for power cables from three vendors, One Source, Sloan Electric, and Electrical Sales. Sloan Electric and Electrical Sales submitted bids that were responsive to the District's specifications and requirements. Electrical Sales submitted the lowest bid.

DETAILED REPORT: The purpose of the Pilot Study is to evaluate the effectiveness of oxygenation using nanobubble technology to control harmful algal blooms at Lake Henshaw. If effective, the need for ongoing short-term algaecides is likely to be significantly reduced or potentially eliminated.

Three nanobubble treatment systems will be mounted on floating barges; power cables will extend from the onshore electric meter service to each barge, providing 480 volts and 200 amperes of power. The type of cable was recommended by Moleaer Inc. and has been successfully used in similar applications. The estimated delivery time is 12 to 14 weeks.

Bid Results:	Electrical Sales	$176,697.37
	Sloan Electric	$216,625.30

Based on the bid results, staff recommends purchasing power cables from Electrical Sales.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 6.B** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: 50TH ANNIVERSARY OF THE ESCONDIDO/VISTA WATER TREATMENT PLANT

RECOMMENDATION: Adopt Resolution No. 2026-XX celebrating the 50th Anniversary of the Escondido/Vista Water Treatment Plant.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: The Escondido/Vista Water Treatment Plant (EVWTP), which is jointly owned by the City of Escondido and Vista Irrigation District, will be celebrating its 50th anniversary in October 2026. To mark this milestone, the District would like to adopt a resolution celebrating EVWTP's 50 years of exemplary service. The Escondido City Council will be celebrating the 50th anniversary of the EVWTP with a proclamation at its October 7, 2026 meeting.

ATTACHMENT: Resolution No. 2026-XX

RESOLUTION NO. 2026-XX

RESOLUTION OF THE BOARD OF DIRECTORS OF
VISTA IRRIGATION DISTRICT
CELEBRATING THE 50TH ANNIVERSARY OF
THE ESCONDIDO-VISTA WATER TREATMENT PLANT

WHEREAS, the Vista Irrigation District has a proud history of providing water service to the communities it serves for more than a century; and

WHEREAS access to safe, reliable drinking water is essential to protecting public health, supporting economic prosperity, preserving quality of life, and sustaining the residents, businesses, and agricultural heritage of the Escondido and Vista communities; and

WHEREAS the Escondido-Vista Water Treatment Plant commenced operation in October 1976 and has faithfully served the region for 50 years; and

WHEREAS the Escondido-Vista Water Treatment Plant is jointly owned by the City of Escondido and Vista Irrigation District, representing a longstanding commitment to regional cooperation and stewardship of public water resources; and

WHEREAS the facility treats both local water supplies originating from the Upper San Luis Rey watershed and imported water supplies delivered through the San Diego County Water Authority, ensuring a reliable and diversified water supply for the community; and

WHEREAS the water treatment plant has the capacity to produce up to 75 million gallons of drinking water per day and utilizes advanced treatment and disinfection processes to provide safe and reliable drinking water that meets all state and federal drinking water standards; and

WHEREAS generations of operators, maintenance personnel, laboratory professionals, engineers, and utility staff have dedicated themselves to protecting public health and ensuring uninterrupted water service for the residents and businesses of Escondido and Vista as well as portions of Oceanside, San Marcos and unincorporated areas of San Diego County; and

WHEREAS the 50th anniversary of the Escondido-Vista Water Treatment Plant provides an opportunity to recognize the facility's contributions to water reliability, environmental stewardship, economic development, and community well-being throughout the region; and

WHEREAS celebrating this milestone honors both the infrastructure itself and the many employees, past and present, whose commitment and professionalism have sustained this critical public service for 50 years.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Vista Irrigation District recognize and celebrate the 50th anniversary of the Escondido-Vista Water Treatment Plant.

PASSED AND ADOPTED by the following roll call vote of the Board of Directors of Vista Irrigation District this 23rd day of September 2026.

AYES:
NOES:
ABSTAIN:
ABSENT:

_____
Marty Miller, President

ATTEST:

_____
Elizabeth Xaverius, Secretary
Board of Directors
VISTA IRRIGATION DISTRICT

Cash Disbursement Report

Payment Dates 8/27/2026 - 9/9/2026

Payment Number	Payment Date	Vendor	Description	Amount
80525	09/02/2026	Refund Check 80525	Customer Refund	65.00
80526	09/02/2026	Refund Check 80526	Customer Refund	144.28
80527	09/02/2026	Refund Check 80527	Customer Refund	238.06
80528	09/02/2026	Refund Check 80528	Customer Refund	118.75
80529	09/02/2026	Refund Check 80529	Customer Refund	151.03
80530	09/02/2026	Refund Check 80530	Customer Refund - Construction Meter Deposit	6,252.39
80531	09/02/2026	Refund Check 80531	Customer Refund - Construction Meter Deposit	4,261.41
80532	09/02/2026	Amazon Capital Services	Micr Toner Cartridge	243.56
	09/02/2026		Printer	312.73
	09/02/2026		Warehouse Items	477.38
80533	09/02/2026	AquaTechnex, LLC	Purchase of Phycomycin for Treatment of HABs	82,105.50
	09/02/2026		Application of Phycomycin for Treatment of HABs	20,212.50
	09/02/2026		Purchase of Oximycin for Treatment of HABs	82,105.50
	09/02/2026		Application of Phycomycin for Treatment of HABs	20,212.50
	09/02/2026		Purchase of Oximycin for Treatment of HABs	86,191.38
	09/02/2026		Application of Oximycin for Treatment of HABs	17,245.60
80534	09/02/2026	AT&T	9391013680/CALNET 047/13/2026 -08/12/2026 Phones	1,906.04
	09/02/2026		9391060230 07/13/2026 - 08/12/2026	10.52
80535	09/02/2026	Auto Specialist Warehouse	Parts for Rear Brake - Truck #8	243.01
80536	09/02/2026	Bay City Electric Works	Valve Cover / Fuel Pump - Kohler Motor	236.87
80537	09/02/2026	Cecilia's Safety Service Inc	Traffic Control-Intersection of Oleander & Alamito	3,800.00
	09/02/2026		Traffic Control - Hideaway Terrace	2,802.50
	09/02/2026		Traffic Control - West Drive	1,805.00
	09/02/2026		Traffic Control - Ocean View Dr.	2,660.00
	09/02/2026		Traffic Control - N Citrus	1,900.00
	09/02/2026		Traffic Control - Cassou Rd	4,322.50
	09/02/2026		Traffic Control - Cresent Dr.	2,565.00
	09/02/2026		Traffic Control - Bella Vista	855.00
	09/02/2026		Traffic Control - Hanes Pl	1,425.00
	09/02/2026		Traffic Control - Hutchison Street	1,567.50
80538	09/02/2026	City of Oceanside	Weese Treatment - July 2026	14,923.24
80539	09/02/2026	Core & Main	Pipe 8" PVC DR-14 C900 (40)	919.70
	09/02/2026		Fire Hydrant LB400 Check Valve (4)	8,010.50
80540	09/02/2026	Diamond Environmental Services	Portable Restroom Service	135.08
	09/02/2026		Portable Restroom Service	83.42
80541	09/02/2026	Direct Energy	Electric 08/2026-Henshaw Power Buildings & Grounds	635.21
	09/02/2026		Electric 08/2026 - Henshaw Wellfield	25,427.30
80542	09/02/2026	EDCO Waste & Recycling Services Inc	Trash Service	517.16
80543	09/02/2026	Ferguson Waterworks	Plug 1" Brass	5.37
	09/02/2026		1 1/2 Poly Insert Stiffeners (15)	56.51
	09/02/2026		Cap .75" PVC Threaded SCH 40	1.06
	09/02/2026		Adapter FH Brass 2.5"x2" (3)	62.77
	09/02/2026		Nipple 2x8 Brass (3)	166.95
	09/02/2026		Coupling 2" Brass (5)	163.89
	09/02/2026		Adapter 2.5" MNST X 2" MIPT Hose	39.19
	09/02/2026		Flange 6" SOW 8-hole (8)	468.16
	09/02/2026		Adapter 6" DI POxFL (4)	988.80
	09/02/2026		Coupling 8" Repair PVC C900 (7)	1,033.19
	09/02/2026		Nipple 2x12 Brass	82.22
	09/02/2026		Ball Valve 1" FIP x FIP with handle PSI 150 (2)	45.44
	09/02/2026		Flange 6" SOW 6-hole (7)	375.09
	09/02/2026		Flange 2" Brass for Meter (10)	445.02
	09/02/2026		Plastic Wrap Clear 8 mil 3'x100' (Visqueen) (15)	725.82
	09/02/2026		Tubing 1" Copper Soft 60' (600)	9,911.37

80544	09/02/2026	Fidelity Security Life Insurance Co (EyeMed)	Vision Cobra Insurance 09/2026	17.56
	09/02/2026		Vision Cobra Insurance 09/2026	8.78
	09/02/2026		Vision Cobra Insurance 09/2026	8.78
	09/02/2026		Vision Cobra Insurance 09/2026	14.24
	09/02/2026		Vision Cobra Insurance 09/2026	14.24
	09/02/2026		Vision Cobra Insurance 09/2026	14.24
	09/02/2026		Vision Cobra Insurance 09/2026	14.24
	09/02/2026		Vision Cobra Insurance 09/2026	14.24
	09/02/2026		Vision Cobra Insurance 09/2026	22.54
	09/02/2026		Vision Cobra Insurance 09/2026	28.48
	09/02/2026		Vision Cobra Insurance 09/2026	(17.56)
	09/02/2026		Vision Insurance 09/2026 - Employees	1,526.16
	09/02/2026		Vision Insurance 09/2026 - P Kuchinsky	14.24
	09/02/2026		Vision Insurance 09/2026 - J MacKenzie	14.24
	09/02/2026		Vision Insurance 09/2026 - M Miller	14.24
	09/02/2026		Vision Insurance 09/2026 - P Sanchez	14.24
80545	09/02/2026	G & R AUTO & TRUCK REPAIR	CTC Clean Truck Check - #75	100.00
80546	09/02/2026	GoTo Technologies USA, LLC	Phone System	1,838.21
80547	09/02/2026	Grainger	Hose Adapter 3/4 x 3/4	72.48
	09/02/2026		Fuses - Wells on Warner Ranch	417.12
80548	09/02/2026	Hawthorne Machinery Co	Welding Fusion Compler	4,206.39
80549	09/02/2026	InfoSend Inc	Bill Layout Redesign	2,400.00
80550	09/02/2026	Kronick Moskovitz Tiedemann & Girard	Legal 05/2026 - Water Rights	12,966.30
80551	09/02/2026	Lava Propane, LLC	Propane Fill - F-2 Forklift	36.81
80552	09/02/2026	Lawnmowers Plus Inc	Exhaust Gasket - T.S 420 Concrete Saw	6.98
80553	09/02/2026	Luke Stockes	Reimbursement - Footwear Program - L Stockes	180.00
80554	09/02/2026	Moodys	Dump Fees (4)	1,200.00
	09/02/2026		Dump Fees (4)	1,200.00
	09/02/2026		Dump Fees (4)	1,200.00
80555	09/02/2026	NAPA Auto Parts	Filters & Cabin Air and Oil	40.84
	09/02/2026		Air Cleander / Filter - F250's (2016)	16.36
	09/02/2026		Front Brake Parts - Truck #8	33.83
80556	09/02/2026	North County Auto Parts	Front Brake Parts - Truck #8	58.49
	09/02/2026		Front Brake Parts - Truck #8	18.75
	09/02/2026		Credit - Wrong Calipers Pins - Truck #32	(50.88)
80557	09/02/2026	O'Reilly Auto Parts	Front & Rear Brake Parts - Truck #35	377.87
80558	09/02/2026	Pacific Pipeline Supply	Bushing .75" x .5 PVC S x S SCH 40 (15)	6.50
	09/02/2026		4 Repair coupling PVC 2" S x S SCH 40 (4)	28.87
	09/02/2026		1/2 Adapter Male SCH SCH 40 (15)	4.87
	09/02/2026		Adapter 1" PVC Male SCH 40 (40)	28.15
	09/02/2026		ELL 1" 90* PVC S x S SCH -40 (15)	12.18
	09/02/2026		Coupling 1' PVC S x S SCH 40 (10)	6.50
	09/02/2026		Adapter 1" PVC SCH 80 (15)	121.78
	09/02/2026		BUSHING 1" x .75" PVC S x S SCH 40 (10)	7.58
	09/02/2026		ELL 1" 90* (Brass) (6)	61.05
	09/02/2026		Plug 75" (Brass) (7)	27.28
	09/02/2026		Plug 1" (Brass) (6)	30.53
	09/02/2026		Plug 1.25" (Brass) (4)	30.74
	09/02/2026		Coupling .75" (Brass) (9)	47.74
	09/02/2026		Proselect Lubricant (Pipe Lube)	185.12
80559	09/02/2026	Pacific Safety Center	New Hire Safety Training	290.00
80560	09/02/2026	Right-of-Way Engineering Services, Inc	Cassou Road Mainline Replacement - (Boundary / As built Surveys	5,000.00
80561	09/02/2026	Rincon del Diablo MWD	MD Reservoir Water Service	61.18
80562	09/02/2026	San Diego Gas & Electric	Electric 08/2026 - VID Headquarters	228.55
	09/02/2026		Electric 08/2026 - Henshaw Power Buildings / Henshaw Wellfield	20,484.07
	09/02/2026		Electric 08/26 - VID Headquarters	8,519.07
	09/02/2026		Electric 08/2026 WCHR	204.05
80563	09/02/2026	Sarah Fateen	Reimbursement Leak Detection	573.34
80564	09/02/2026	Southern Counties Lubricants, LLC	Fuel 08/16/2026 - 08/31/2026	10,228.02
80565	09/02/2026	Discount Tire	Tires - Generator G-9	329.54

80566	09/02/2026	Bend Genetics, LLC	Lab Analysis - HABs Samples	275.00
80567	09/02/2026	UniFirst Corporation	Uniform Service	260.25
80568	09/02/2026	Verizon Wireless	Cell Phone 07/16/2026 - 08/15/2026	1,799.89
	09/02/2026		Cellular Service - Operations	(845.21)
	09/02/2026		SCADA Remote Service	469.62
80569	09/02/2026	VWR International LLC	Hot Plate Stirrer	840.32
80570	09/02/2026	Weck Laboratories, Inc	Well Samples	1,850.00
	09/02/2026		Mid - Lake Samples	815.00
80571	09/02/2026	TS Industrial Supply	Locks 2029 Master (150)	2,895.76
	09/02/2026		6" Gate Valve - #VE-2	680.12
	09/02/2026		AER-222 ORANGE FLUORESENT MARKING PAINT (12)	89.66
	09/02/2026		SEA-398-DUCT-TA 2 X 60YD DUCT TAPE (7)	127.01
	09/02/2026		AER-254 BLUE CONSTRUCTION MARKING PAINT 20OZ (24)	148.15
	09/02/2026		GAT-03928 LEMON LIME GATORADE	196.04
	09/02/2026		TYT-VT2100413P-413P 2INX100FT BLACK PIPE WRAP (36)	381.72
	09/02/2026		DIX-2X4X12W WOOD WEDGE 2 X 4 X 12L (270)	584.55
	09/02/2026		Camlock Adaptor - # VE-2	67.33
80572	09/02/2026	Xerox Corporation	Xerox Supplies & Maintenance	235.14
80573	09/02/2026	Refund Check 80573	Customer Refund - Construction Meter Deposit	
80574	09/09/2026	Refund Check 80574	Customer Refund - Construction Meter Deposit	
80575	09/09/2026	Refund Check 80575	Customer Refund	
80576	09/09/2026	ACWA/JPIA	Medical & Dental 10/2026	34.60
	09/09/2026		Medical & Dental 10/2026	34.60
	09/09/2026		Medical & Dental 10/2026	34.60
	09/09/2026		Medical & Dental 10/2026	71.03
	09/09/2026		Medical & Dental 10/2026	71.03
	09/09/2026		Medical & Dental 10/2026	71.03
	09/09/2026		Medical & Dental 10/2026	126.45
	09/09/2026		Medical & Dental 10/2026	71.03
	09/09/2026		Medical & Dental 10/2026	45.36
	09/09/2026		Medical & Dental 10/2026	1,029.77
	09/09/2026		Medical & Dental 10/2026	34.60
	09/09/2026		Medical & Dental 10/2026	34.60
	09/09/2026		Medical & Dental 10/2026	995.17
	09/09/2026		Medical & Dental 10/2026 - Employees	203,121.13
	09/09/2026		Medical & Dental 10/2026 - Retirees	43,727.13
	09/09/2026		Medical & Dental 10/2026 - J MacKenzie	2,061.37
	09/09/2026		Medical & Dental 10/2026 - P Kuchinsky	2,061.37
	09/09/2026		Medical & Dental 10/2026 - M Miller	2,061.37
	09/09/2026		Medical & Dental 10/2026 - P Sanchez	2,061.37
80577	09/09/2026	Airgas USA LLC	Oxygen Regulator	299.56
80578	09/09/2026	Amazon Capital Services	Data Transfer Cord	9.46
	09/09/2026		OSHA Inspection Tags - Forklifts	72.33
	09/09/2026		Solar Panel - Trailer Break Awap Battery #AZ-2	23.64
	09/09/2026		Rocker Switch - Truck #46	18.50
	09/09/2026		Boat Trailer bunk Carpet Kit	96.94
80579	09/09/2026	Shadowridge Auto Service	Smog Inspection - Truck#36	69.95
	09/09/2026		Smog Inspection - Truck#2	69.95
	09/09/2026		Smog Inspection - Truck#56	69.95
	09/09/2026		Smog Inspection - Truck#39	78.20
80579	09/09/2026		Smog Inspection - Truck#18	69.95
80580	09/09/2026	Big Drip Plumbing	Meter Tie - Backs - Buena Creek Rd (2)	2,700.00
80581	09/09/2026	Boot Barn Inc	Footwear Program	151.81
80581	09/09/2026		Footwear Program	164.85
80582	09/09/2026	CDW Government Inc	Recycle Fee	4.00
	09/09/2026		Microsoft Surface Pro	2,127.10
	09/09/2026		CODi Rugged Case for Microsoft Surface Pro	29.74
	09/09/2026		Proofpoint Essentials Business Subscription Licens	3,769.60
	09/09/2026		Microsoft Surface Pro Signature Keyboard	151.80
80583	09/09/2026	Cecilia's Safety Service Inc	Traffic Control - Cassou Rd	3,135.00

	09/09/2026		Traffic Control - Franklin Lane	2,565.00
	09/09/2026		Traffic Control - Rancho Vista Place	2,755.00
	09/09/2026		Traffic Control - Melrose Pl	1,330.00
80584	09/09/2026	Complete Office of California, Inc	Office Supplies	8.70
80585	09/09/2026	Diamond Environmental Services	Portable Restroom Service	563.24
80586	09/09/2026	EH Wachs Company	Blower Clutch Replacement Assembly	964.00
80587	09/09/2026	Ferguson Waterworks	Coupling 8" Deflection C900	127.30
	09/09/2026		Coupling 8" Deflection C900 (2)	252.22
	09/09/2026		Coupling 8" Deflection C900 (10)	1,273.02
80587	09/09/2026		CLA - VAL Bushing	425.21
	09/09/2026		Stem Indicators - 2" Regulators	412.37
	09/09/2026		Coupling 8" Deflection C900 (10)	1,273.02
	09/09/2026		Clamp 1x3 Repair Full Circle Orangeburg SS (5)	272.09
80588	09/09/2026	Freedom Window Cleaning	Clean Exterior Lobby & Boardroom Windows	434.00
80589	09/09/2026	Grainger	Hose Adapter	102.31
	09/09/2026		Chemical Feed Pump - Chlorination	2,236.88
	09/09/2026		SCADA enclosure - Rincon Meter	654.22
	09/09/2026		Back Panel - Rincon SCADA enclosure	140.34
80590	09/09/2026	Ciao Pizzeria Ristorante	Employee Event 10/06/2026	1,241.66
80591	09/09/2026	Hach Company	Chlorine Reagent - Field EQ.	727.07
	09/09/2026		Chlorine Standard - CL17 SC CAL	155.18
80592	09/09/2026	Heritage Pool Supply	CLZ Deodar Reservoir	50.57
80593	09/09/2026	HydroPro Solutions	6" Subdivision Construction Meters (2)	11,692.28
80594	09/09/2026	Ken Grody Ford Carlsbad	Tune Up Parts - Truck #33	387.73
	09/09/2026		Brake Parts - Truck #21	257.52
80595	09/09/2026	McMaster-Carr Supply Company	2.5" PVC Fittings	187.27
	09/09/2026		2.5" PVC Fittings	383.51
80596	09/09/2026	Moodys	Dump Fees (4)	1,200.00
	09/09/2026		Dump Fees (2)	600.00
	09/09/2026		Dump Fees (4)	1,200.00
80597	09/09/2026	Toyota of Escondido	Air / Fuel Sensor - Truck #56	290.22
80598	09/09/2026	North County Auto Parts	Circuit Breaker's - #T-2. #T-4 & #T-7	70.28
	09/09/2026		Headlamp Bulbs - F-550's	51.61
	09/09/2026		Headlight Bulb - Truck #10	25.81
80599	09/09/2026	One Source Distributors	Solar Panel - Rincon Meter SCADA	372.30
80600	09/09/2026	Pace Supply Corp	Meter 1.5" electronic read (20)	13,397.67
	09/09/2026		Meter 2" electronic read (25)	23,358.46
80601	09/09/2026	Pacific Pipeline Supply	Gate Valve 8" POxFL R/W (7)	11,502.65
	09/09/2026		Macro-FC Couplings Flanged	619.92
80602	09/09/2026	Quadient Leasing USA, Inc.	Postage Machine Lease 09/19/26 - 09/18/26	2,034.28
80603	09/09/2026	San Diego Friction Products	Window Regulator - Truck #52	201.33
80604	09/09/2026	Sloan Electric Company	Sta.12 Pump #2 Rebuild	41,376.96
	09/09/2026		Spare Motor Saver - Wells (3)	6,714.49
80605	09/09/2026		Gravel Bags- Poly (200)	389.70
	09/09/2026		Delivery Fee	235.00
	09/09/2026	Summit Erosion Control	Pallet (2)	43.30
80606	09/09/2026	Sunrise Materials Inc	3/8 Rock	38.70
80607	09/09/2026	The UPS Store 0971	Shipping 08/2026 - HAB's	280.05
80608	09/09/2026	Bend Genetics, LLC	Lab Analysis - HABs Samples	2,455.00
80609	09/09/2026	Midas Service Experts	Tires - Generator #G-9 (2)	211.32
	09/09/2026		Tires - Truck #33 (2)	511.41
80610	09/09/2026	UniFirst Corporation	Uniform Service	319.04
80611	09/09/2026	TS Industrial Supply	Mas 3LF-KA-3753 Master Padlock 3LF KA 3753 (25)	529.59
80612	09/09/2026	Xerox Business Solutions LLC (59-3247752)	Xerox Supplies & Maintenance	2,172.65
			Grand Total:	**919,312.08**

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 7** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: REQUEST FOR LETTER OF SUPPORT FOR VISTA COMMUNITY RESILIENCE CENTER GRANT APPLICATION

RECOMMENDATION: Consider request for a letter of support for the City of Vista's Community Resilience Center grant application.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: None.

SUMMARY: The City of Vista (City) is preparing an application for the California Strategic Growth Council's Community Resilience Centers Round 2 Implementation Grant Program to fund a new Community Resilience Center at Luz Duran Park. The proposed Community Resilience Center (CRC) will provide a neighborhood-scale resilience hub offering year-round community services and temporary emergency capacity during events such as extreme heat, wildfire, drought, poor air quality, and power outages. The City has reached out to the District seeking support for its application.

DETAILED REPORT: In May 2026, the California Strategic Growth Council (SGC) announced the availability of approximately $55 million in funding from the Safe Drinking Water, Wildfire Prevention, Drought Preparedness, and Clean Air Bond Act of 2024 for Round 2 of the CRC Program. SGC will award CRC grants through a competitive process; approximately $5 million is available for Planning Grant awards of up to $500,000 each and approximately $50 million is available for Implementation Grant awards of up to $10 million each. Final applications are due September 30, 2026.

The City is seeking up to $10 million from the SGC to build a neighborhood-scale resilience hub at Luz Duran Park, providing year-round community services and temporary emergency capacity during events such as extreme heat, wildfire, poor air quality, power outages, and other emergencies; as noted in the draft letter, the CRC project also provides an opportunity to incorporate water-efficient design, conservation practices, and community education component that can strengthen long-term water resilience. The City is formalizing partnership commitments with various organizations and the San Diego County Sheriff's Office along with coordination with Vista Fire and regional emergency service partners. Partners' roles will include using the center to engage in public health, outreach, resource navigation, emergency preparedness, workforce development, and community resilience. Partners' roles will include using the center to engage in public health, outreach, resource navigation, emergency preparedness, workforce development, and community resilience.

ATTACHMENTS:

- Community Resilience Center Program
- Draft letter

What is the Community Resilience Centers (CRC) Program?

The CRC Program:

- Funds the planning, construction, and retrofit of community resilience centers across California's diverse communities.
- Advances communities' capacity to plan for long-term resilience and acute emergencies.
- Encourages meaningful engagement, cross-sectoral collaboration, community-based partnerships, and shared governance and decision-making models.
- Mitigates the public health impacts of extreme heat and other emergency situations exacerbated by climate change.
- Prioritizes projects located in and benefiting under-resourced, rural, unincorporated, and Tribal communities across geographically diverse regions in the state of California.

From extreme heat to wildfires, recent climate events and public health emergencies impact every part of California. The best available projections anticipate that these climate impacts will intensify. In the face of these challenges, strengthening resilience requires investments in both physical and social infrastructure. In addition to climate resilience activities, community resilience builds ongoing social cohesion, trust, and networks.

What activities does the CRC Program Fund?

The CRC Program funds Planning and Implementation Grants to advance neighborhood resilience centers that provide shelter and resources during climate emergencies. It also supports year-round community services and programming.

How much funding is available?

Approximately $55 million is available for Round 2. The funding is from the Safe Drinking Water, Wildfire Prevention, Drought Preparedness, and Clean Air Bond Act of 2024, commonly known as the "Climate Bond" (Proposition 4).

Who is eligible to apply?

In Round 2, Lead Applicants must be a public or local agency, nonprofit organization, special district, joint powers authority, Tribe, public utility, local publicly owned utility, or mutual water company.

Priority Communities

All communities are eligible for CRC Program funds. However, in alignment with the Climate Bond's funding goals, Round 2 of the CRC Program will prioritize investments in the communities most burdened by environmental, socioeconomic, and health inequities. Priority communities include under-resourced (low-income, disadvantaged, and severely disadvantaged) communities, Tribes, rural communities, and unincorporated communities.

How do you apply?

- **April 29, 2026:** **Final Round 2 Program Guidelines** released
    - Eligible applicants can complete a **Technical Assistance Request Form**
- **May 29, 2026:** Notice of Funding Availability (NOFA) released
- **July 2, 2026:** Applications open via the online platform Submittable
- **Summer 2026:** Application Period
    - Complete application for appropriate grant type by due date stated in NOFA
    - Applications due via Submittable
- **Fall and Winter 2026-27:** Application review
    - SGC will notify applicants who are deemed ineligible or fail threshold review
    - Notified applicants with incomplete applications will have up to three days to submit missing documentation
    - Final applications and requested materials due via Submittable
    - Top-scoring Implementation Grant applicants invited for an interview
- **Spring 2027:** Awards

For more information

Visit **https://sgc.ca.gov/grant-programs/crc/**. Sign up for our **email list** or email **crc@sgc.ca.gov**.

[VISTA IRRIGATION DISTRICT LETTERHEAD]

September [XX], 2026

California Strategic Growth Council Community Resilience Centers Program

RE: Support for City of Vista Community Resilience Center Grant Application

Dear California Strategic Growth Council:

On behalf of Vista Irrigation District, I am pleased to express support for the City of Vista's application to the California Strategic Growth Council's Community Resilience Centers Round 2 Implementation Grant Program for a new Community Resilience Center at Luz Duran Park.

The proposed Center would provide a neighborhood-scale resource to help Vista residents prepare for and respond to extreme heat, wildfire, drought, power outages, and other emergencies. The project also provides an opportunity to incorporate water-efficient design, conservation practices, and community education that can strengthen long-term water resilience.

Vista Irrigation District recognizes that community resilience depends on coordination among local governments, public agencies, community organizations, and residents. The proposed Center would complement the City's broader network of facilities and emergency resources while providing a trusted location for year-round education, preparedness, and community services.

We commend the City of Vista for pursuing this investment in long-term community resilience and respectfully encourage the California Strategic Growth Council to give the City's application favorable consideration.

Sincerely,

DRAFT

STAFF REPORT	**Agenda Item: 8** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Greg Keppler** **Reviewed By:** **Randy Whitmann** **Approved By:** **Brett Hodgkiss**

SUBJECT: ENVIRONMENTAL, ENGINEERING AND DESIGN SERVICES FOR THE VISTA FLUME REPLACEMENT PIPELINE PROJECT

RECOMMENDATIONS:

1. Award and authorize the General Manager to enter into an Agreement for Professional Services with Brown and Caldwell to provide environmental, engineering and design services for the Vista Flume Replacement Pipeline Project in an amount not-to-exceed $18,365,947; and

2. Find that entering into an Agreement for Professional Services with Brown and Caldwell for environmental, engineering and design services for the Vista Flume Replacement Pipeline Project is exempt from the California Environmental Quality Act under Class 1, Section 15301 (Minor Alteration of Existing Facilities, 14 CCR § 15301) and Class 6, Section 15306 (Information Collection, 14 CCR § 15306) of the state CEQA Guidelines.

PRIOR BOARD ACTION: At its February 18, 2026 meeting, the Board approved the Request for Proposals for Environmental, Engineering and Design Services for the Vista Flume Replacement Pipeline Project.

FISCAL IMPACT: Not-to-exceed $18,365,947. A total of $5,350,000 has been included for these services in Fiscal Year 2026-2027 budgets; remaining amounts will be budgeted in future fiscal years based on anticipated expenditures.

SUMMARY: As a critical component of the District's potable water supply system, the Flume is the District's only means of receiving local and imported water treated at the Escondido-Vista Water Treatment Plant (EVWTP). It also becomes the primary supply of all water to the District during planned 10-day shutdowns along the San Diego County Water Authority's (Water Authority) second aqueduct.

At nearly 100 years old, the Flume has exceeded its usable service life and should be retired. Since 2018, the District has embarked on and completed the necessary planning efforts to confirm that replacing the Flume with a pipeline is the least costly water supply option for the District and has identified a preferred alignment for the new pipeline. With the recent approval of adjustments to the District's water rates and service charges over the next five years, the next phase is to commence environmental, engineering and design services for the Flume's replacement.

DETAILED REPORT:

Request for Proposals (RFP)

The RFP was issued to 11 consulting firms: Ardurra, Black & Veatch, Brown and Caldwell, Hazen & Sawyer, Hoch Consulting, Jacobs, Kennedy/Jenks, NV5, Stantec, and Waterworks Engineers. The RFP provided a main scope of work and essential requirements, inviting the firms to refine or expand the scope based on their professional expertise and understanding of District goals. The RFP emphasized the critical need to balance comprehensive field investigations during the design phase to minimize costly construction change orders resulting from unknown conditions; furthermore, it required a skilled understanding of trenchless construction methods, permitting requirements, and interagency coordination necessary to secure approvals from federal, state, and regional

stakeholders, including the Army Corps of Engineers, California State Water Resources Control Board Division of Drinking Water (DDW), the cities of Escondido and San Marcos, the County of San Diego, Caltrans for the I-15 crossing, and the Water Authority for aqueduct crossings. Lastly, the RFP stressed the importance of the consultant's allocation of staff hours across the proposed team; the hours for any entry-level designer and/or engineer should be equally balanced by those of a licensed professional engineer with the goal of maximizing the firm's internal oversight and quality control during design, increasing the competence and quality of the final construction bid package, and reducing change-order risk during construction.

Proposal Evaluation

Four very well written and responsive proposals were received from Brown and Caldwell (teamed with Black & Veatch, and Hoch Consulting, three of the 11 firms), Hazen & Sawyer, Jacobs and Stantec. The District's selection committee, comprised of District and City of Escondido staff, ranked each firm based on the consultant's understanding of the project, relevant experience, proposed project approach, scope of work and schedule. The committee selected Brown and Caldwell as the most qualified and responsive firm; Brown and Caldwell and the proposed team members have the most relevant and comparable experience on long-length, large diameter regional conveyance pipeline designs that had similar utility, traffic congestion and tunneling complexities that have also been successfully constructed.

Per the District's Purchasing Policy, ranking of proposals for professional services is based on qualifications and experience, approach and understanding of the project, level of effort and other business-related criteria where, once selected, the final compensation is negotiated with the top-ranked firm. Although selection is not based on estimated fees, staff reviewed the fees from all the firms and found a very wide range (between $10.4 million and $18.4 million). Upon further review of each firm's scope of work, considerable variability was found between project approach, proposal scope items, amplifying options, level of effort assumptions and limitations, inclusions/exclusions, etc.; from this information, District staff developed an estimated normalized baseline scope of work for each task to assess allocation of resources, hours, and un-escalated fees across all firms.

Applying the above-described metrics across the four firms' scopes of work (e.g., number of assumed drawings, California Environmental Quality Act efforts, amount of utility research and potholing, geophysical assessments and geotechnical borings, traffic control, etc.), the estimated fees for the normalized baseline scope of work were $11.1 million (Hazen and Sawyer), $14.2 million (Jacobs), $14.5 million (Stantec) and $14.7 million (Brown and Caldwell). These normalized baseline scopes of work and fees were then further reviewed for outlying scope exclusions and to compare each firm's assumed level of effort and allocation of resources (i.e., total number of staff hours on the project, utilization of licensed engineers compared to non-licensed engineers/designers, level of effort for quality assurance and quality control, etc.); staff is comfortable with $14.0 to $15.0 million being an appropriate baseline fee for this project based on the proposals in comparison to what was requested in the RFP.

Proposed Scope of Work

Subsequent negotiations with Brown and Caldwell reduced the normalized, un-escalated baseline fee from $14.7 million to $14.2 million, and further negotiated a 7.6% increase in the fee (to $15.3 million) to account for future cost-of-living/inflation adjustments (i.e., escalated current hourly rates to mid-point of the 4.5-year project instead of increasing them each year). In addition to the baseline scope, Brown and Caldwell provided an array of optional services based on their experience that were not explicitly requested in the RFP, and staff recommends including several of the optional items (that will likely be needed) at this time for a total not-to-exceed amount of $18,365,947 (note this is within the $16 - $23 million estimated fee range that was presented to the Board during the RFP approval). The scope of work with the recommended optional items includes the following key tasks:

Baseline Scope of Work

1. Field Reconnaissance, Data Collection, Utility Research, and Right of Way Surveys (includes up to 200 potholes to locate major utilities)
2. Topographic and Land Surveys (base mapping)
3. Geotechnical and Geophysical Investigations (includes up to 60 borings)
4. Environmental Coordination and Permitting (includes preparation of an Environmental Impact Report)
5. System Hydraulic Analysis and Flow Control Requirements
6. Alignment Validation (confirm assumptions made during the Flume Recommended Alignment Study and that the alignment remains viable or needs modification based on new and additional data gathered, changed conditions, etc.)
7. Preliminary Engineering (design criteria, 30% design, Preliminary Engineering Report)
8. Final Design (60%, 90%, 100%, and final bid set designs)
9. Cost Estimates, Cost Loaded Schedules, Funding and Cash Flow Requirements
10. Board Workshops/Meetings (up to three special environmental workshops, 10 project updates during regular Board meetings)
11. Project Management, Quality Control, and Meetings
12. Bid Phase Support Services/Addenda/Conformed Set (respond to bidder requests for information, attend pre-bid meeting, revise bid package if necessary)

Additional Services

14.1 Public Outreach (community outreach, interagency coordination, additional permit and environmental outreach)

14.4 Supplemental Potholes (up to 200 additional potholes to locate smaller utilities along the alignment)

14.6 Relinquishing Unused Easements (coordination with other agencies and quitclaims)

14.8 Geotechnical Baseline Report (used on tunneling/boring projects to allocate risk and help resolve disputes; this effort takes the data from the geotechnical report and establishes contractual assumptions and measurable descriptions of what subsurface conditions the contractor must account for in their bid.)

14.10 Erosion Control and Site Restoration Plans (it is anticipated that specific drawings will be required by the cities of Escondido and San Marcos)

14.17 Flume Demolition Bid Package (bid out separately to seek cost savings)

Other Optional Services and Future Agreement Amendments

In developing the proposed scope of work to be awarded at this time, staff and Brown and Caldwell have attempted to identify and define project requirements as thoroughly as possible. Other optional items, which are not requested to be awarded at this time, may be required later. Example tasks include:

- As utility locating, geotechnical, geophysical, surveys, and/or environmental investigations progress, findings may necessitate significant changes in the alignment beyond what is assumed in the scope of work (e.g., avoidance of undesirable geotechnical conditions, mitigation requirements, different and more costly construction methods, etc.). Unknown environmental conditions may also require more focused surveys to confirm the presence or absence of various species, determine if additional permits, agency approvals, or mitigation requirements are necessary for the project. Similarly, the discovery of contaminated soil during geotechnical investigations would require additional disposal costs and warrant further field explorations.

- Rincon del Diablo Municipal Water District (Rincon Water), the City of Escondido (Escondido) and the Water Authority may request for the District to partner with them (through reimbursement agreements) to utilize this contract to design impacted or closely related facilities such as:

- Rincon Water currently has a connection to the Flume as a feed during Water Authority first aqueduct shutdowns. Design services could include new pipelines to reconnect their feed.
- The new pressurized Flume Replacement Pipeline will have the ability to be backfed from the Water Authority's 2nd aqueduct via the District's VID-3 turnout; Escondido may also be interested in a new connection to the Flume Replacement Pipeline.
- The Water Authority has plans to replace VID-3 in the next five years and may be interested in having it designed as part of this project.

After award, staff will reach out to these three agencies to confirm interests, develop final scopes and fees, reimbursement agreements, and bring said items back to the Board for final approvals.

- Design related services during construction (e.g., review of contractor requests for information, shop drawings, submittals, etc.) are not included in the scope of work and staff will seek Board approval for an amendment to Brown and Caldwell's agreement once the project is bid and those services can be better defined.

Additional District Staffing and Consulting Needs

The District's Engineering Projects department, which currently consists of one position (an Engineering Project Manager), oversees all capital improvement projects that are designed/constructed by third party consultants/contractors. With the design of the new Pechstein II Reservoir currently underway, it is anticipated that the department will need a new mid-level engineering position once the Flume Replacement Pipeline design begins in earnest (likely after the alignment validation phase). This new position will continue to be needed for the foreseeable future to help manage the continued influx of other planned projects that also require timely completion (i.e., rehabilitation of Pechstein I Reservoir, replacement of Pump Stations 10 and 12, replacement of Virginia Place (A) Reservoir, demolition of Summit Trail (C) and Cabrillo Circle (E-1) reservoirs, etc.).

Recognizing that filling engineering positions has been difficult in recent years in both the public and private sectors, a separate consultant may be needed during Flume Replacement Pipeline design to assist with program management and design reviews. As the design of Flume Replacement Pipeline progresses, staff will continue to evaluate the needs for a new engineering position in concert with supplemental support from a consultant; final recommendations will be brought to the Board for approval at a future date.

Lastly, additional consulting services will be needed during construction for construction management and inspection services. These future services will be pursued through a separate RFP/Board approval process near the end of Flume Replacement Pipeline design.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA): The District is the lead agency under CEQA and the professional services agreement with Brown and Caldwell includes the preparation of an EIR for the project. Work under the agreement also includes field activities for utility potholing, geotechnical boring and groundwater monitoring well installations along the proposed alignment. Approval of this agreement and Brown and Calwell's scope of work is therefore exempt from further CEQA review under the Class 1 exemption, Section 15301 (Minor Alteration of Existing Facilities, 14 CCR § 15301) of the CEQA Guidelines because the agreement primarily involves environmental and engineering studies and analyses with incidental field activities, including boring and potholing, that will result in no expansions of existing uses of affected utilities and facilities. Additionally, approval of the agreement is also exempt from further CEQA review under the Class 6 exemption, Section 15306 (Information Collection, 14 CCR § 15306) because it consists of basic data collection, research, experimental management, and resource evaluation activities that are intended to inform further agency decision-making and will not result in serious or major disturbance to any environmental resources.

ATTACHMENT: Proposed Scope of Work and Fee

SCOPE OF WORK
FOR
VISTA IRRIGATION DISTIRICT
VISTA FLUME REPLACEMENT PIPELINE PROJECT

The following is the proposed scope of work prepared by the Brown and Caldwell team (B&C or Consultant) for the Vista Irrigation District (District) relative to their Vista Flume Replacement Pipeline Design project (Project). The source document used to prepare this scope of work was provided by the District under Section 3.2 of the District's request for proposal (RFP). The scope provided herein is inclusive of scope modifications agreed to with the District during original contract negotiations. The project schedule and fee enclosed are based on this detailed scope.

ITEMIZED BASELINE SCOPE SUMMARY:

The following is a summarized list of the services offered herein under this scope and fee proposal.

- 54-month design schedule (includes bidding phases for up to two separate packages)
- Rates & fees have been escalated to mid-point of the project; no further escalation will be required/requested during design assuming the schedule is maintained
- 200 potholes (up to 75 during Validation and 125 during final design)
- 60 borings (limit one mobilization, planned during Validation Phase)
- Aerial survey followed by ground survey to collect surface features, roadway medians, pothole and soil boring locations
- Escondido-Vista Water Treatment Plant (EVWTP) connection evaluation, design, and details
- Pechstein site coordination and design of above-grade pressure sustaining facility
- Replacement pipeline design drawings (plan and profiles) inclusive of restoration details
- Flume demolition plans (plan view only)
- Associated structural, mechanical, electrical and instrumentation drawings pertinent to the pipeline's design, construction, and long-term operations
- Traffic control plans (60% design – to garner pre-approval level acceptance and coordination for agencies having jurisdictions)
- Full Environmental Impact Report (EIR) for new pipeline, appurtenant facilities, accessories and demolition of existing Flume
- Non-standard specialized details where required by District or other permitting agencies
- Trenchless geotechnical report separate from open trenching and geophysics reports
- Up to twenty (20) easements plats and legal descriptions
- Caltrans permitting exceptions (as applicable)
- Utility contact logs, digitized record drawings, and conflict resolution plans
- Permitting needs assessment and early permitting coordination

DETAILED BASELINE SCOPE BY TASK:

1. FIELD RECONNAISSANCE, DATA COLLECTION, UTILITY RESEARCH, AND RIGHT OF WAY SURVEYS

Perform a reconnaissance survey to become familiar with alignment and adjacent corridors, develop a photographic inventory of surface features including necessary adjacent segments identified in the Flume Replacement Alignment Study (FRAS) and identify difficult construction areas and potential methods to traverse these areas. Obtain and review available and pertinent reports, data, right-of-way (ROW) and/or assessor property boundary maps, aerial photographs, record drawings, utility drawings, traffic volumes and patterns, and specifications from the District, San Diego County Water Authority (Water Authority), Caltrans, Escondido, City of San Marcos, the County, and other local jurisdictions, agencies and utilities.

Collect utility maps and easement information regarding abandoned, existing, and proposed utilities corresponding to the Flume replacement pipeline alignments and new facility configurations. Review utility maps to determine potential conflicts with proposed alignments. Coordinate utility research and conflict resolutions with the appropriate agencies and gain their approval.

1.1. Data Collection

1.1.1 Validation Phase Research:

A. Utilities – Upon initiation of the project the Consultant will query local utility databases along Alignment 1 to update its current utility basemaps and establish the utility contact list for the project. This work provides an early check of the FRAS's utility research to address changed conditions since the FRAS, identify utilities potentially missed during the FRAS, analyze their impacts, and plan for additional investigations within the Validation Phase "pinch points." The Consultant will contact the utility agencies located within the validation pinch points and obtain the record drawings within these priority areas. For a basis of costs, we are assuming a total of 18 pinch points. This will allow the utility agencies to respond faster with the record drawings that will support alignment validation. A utility contact log will be maintained listing points of contact, date and status of request(s), and communication notes. The project basemap will be updated with the record drawing information and utilities conflicts addressed for final alignment validation. At the completion of this subtask, the project basemap will then be submitted to the land surveyor (SDE) for use as a starting point in developing the topographic survey for use in Preliminary Engineering and Final Design.

B. Planned Projects – Consultant will perform the research, document publicly discoverable planned projects, and update previously collected data related to future planned projects to occur within the preliminary alignment's ROW. This work will update previously collected data relative to upcoming capital projects and pavement moratoriums.

C. Traffic – Consultant will collect and study traffic count data, analyze traffic patterns, develop alternatives for possible detour routes, and document the local jurisdictional requirements for traffic control and the allowable day/night working hours.

D. Field Walk – Consultant will walk the entire alignment, with particular focus on the

identified pinch points, to update FRAS data relative to all observed changed conditions.

E. Other – work related to other disciplines (geotechnical, environmental, and hydraulics) is listed in the subsequent tasks below.

1.1.2 Preliminary Engineering Phase Research: Upon completion of the Validation Phase, the Consultant will contact the utility agencies and amass the balance of the record drawings along the validated final alignment. The record drawings will be digitized by the Consultant and inserted into the project topographic survey (i.e., basemap) for use in final design. Existing utilities presented on the design drawings will be assessed in the field by potholing per Task 1.2. Existing utilities will be presented horizontally and vertically on the design drawings' plan and profile sheets. A utility database will be developed and maintained to track all utility information obtained throughout the project, including record drawings, utility owner correspondence, field locates, and potholing data. Utility location accuracy will be assigned quality levels (D through A) in accordance with ASCE 38 standard guidelines and updated as additional information becomes available. The utility database will serve as a living document throughout design and will include a utility conflict matrix to support identification, evaluation, and resolution of conflicts between existing utilities and the proposed pipeline. The conflict matrix will be used as a design tool to inform decisions regarding utility avoidance or relocation. The data collection for the balance of the alignment will be conducted for all other disciplines (geotechnical, environmental, and hydraulics).

1.1.3 Design Phase Research: During the multidisciplinary quality assurance process, the Consultant will backcheck the design against previously collected data at each design stage (60%, 90%, etc.). New data will be collected as agreed upon with the District to supplement data gaps, help address conflicts, and reduce risk.

1.2. Potholing

Undertake, coordinate, and schedule potholing efforts to verify the location and depth of potential utility conflicts. Before potholing, the Consultant via site visits, information requests, and by other available means will attempt to locate existing fiber optic, telephone, electrical, cable, natural gas, water, sewer, storm drain and other utilities crossing, adjacent to, or are otherwise incompatible within the Flume project limits. The potholing (i.e. digging exploratory holes) is to be done by the Consultant through a qualified sub-contractor. The Consultant is to submit a plan for potholing along the alignment segments at strategic locations that warrant investigation to obtain better information for design. The Consultant will walk the alignment segments to mark pothole locations and delineations with white paint for the potholing sub-contractor to notify Dig Alert USA before digging. The Consultant's surveying subconsultant is to ground survey the location of each pothole and include this data in the base files and plan sheets. The Consultant's potholing subconsultant shall secure all necessary permits to perform the work, as well as provide the necessary traffic controls and follow the requirements of the permits obtained. The following two subtasks will conform with the above requirements.

1.2.1 Validation Phase Potholing: Alignment "pinch points" were presented in the project approach section of this proposal (see Figure 1). These pinch points are segments along the alignment of higher risk and need more detailed investigations. During the validation

phase targeted potholing will be performed within those critical areas to help confirm the feasibility of constructing along the alignment.

The basis for costs is a total of seventy-five (75) potholes, which was estimated by studying the 18 identified pinch points plus key data gaps along select portions of the alignment. The potholing effort includes utility locating and field mark-out activities performed in advance of potholing to support utility identification and pothole placement. As a basis for cost, 448 labor-hours are included for utility locating during the Validation Phase. The potholing data collected under this subtask will be presented on the Final Design drawings (assuming no major alignment changes are required as a result of this work), and reports included with the project specifications. They will not be repeated in the subtask below. Note, if significant alignment changes are necessary or existing utility location quality is low, additional potholing may be required to assess other segments or confirm utility data – see optional Task 14.4)

FIGURE 1: VALIDATION PINCHPOINTS (18 TOTAL)

APPROACH to Alignment Issues

1. **PECHSTEIN RESERVOIR II CONNECTION**
   Facilitate constructability and phasing workshop with pipeline and facility teams; perform hydraulic and transient modeling of pressure relief valve to confirm operational integration.
2. **SDCWA AQUEDUCT CROSSINGS**
   Initiate early coordination with SDCWA; complete targeted geotechnical borings at shaft locations; evaluate trenchless methods; develop a vibration and utility monitoring plan to protect SDCWA infrastructure.
3. **BUENA CREEK ROAD/BLIND CURVE CORRIDOR**
   Develop traffic control strategy in coordination with the City of San Marcos and County of San Diego; evaluate alternative alignment on Cassou Road to reduce impacts and improve constructability.
4. **OLIVE STREET/SYCAMORE DRIVE CROSSING**
   Perform a comparative analysis of trenchless vs. open-cut methods, considering cost, risk, and community impact; coordinate early with park stakeholders to define acceptable construction limits and restoration requirements.
5. **ROSE RANCH ROAD/RICHLAND ELEMENTARY**
   Coordinate with school stakeholders to define construction window (summer/night); evaluate full closure with detours; develop targeted outreach plan to minimize disruption.
6. **JURISDICTION BORDER (STA 365)**
   Facilitate a joint workshop with the cities of San Marcos and Escondido, and the County of San Diego to align on the preferred route, traffic control strategy, and allowable work hours; document agreements early to avoid changes later in design and construction.
7. **I-15 CROSSING**
   Advance supplemental geotech investigations to better understand tunneling conditions; early Caltrans coordination; open cut feasibility with constructability input; optimize shaft locations to minimize traffic impacts.
8. **CENTRE CITY PARKWAY CROSSING**
   Coordinate early with Escondido on traffic control; evaluate night/weekend work and trenchless alternative to reduce utility and community impacts of open cut.
9. **URBAN UTILITY CONGESTION ON EL NORTE PARKWAY**
   Develop thorough subsurface utility engineering, including targeted potholing; workshop traffic control strategy with Escondido; coordinate traffic control with the City; evaluate night work and initiate early public outreach.
10. **CONWAY DRIVE/CONWAY ACADEMY**
    Coordinate with the school to establish a work window (target summer); trenchless likely required; locate pits within the public ROW to avoid school disruptions; implement focused outreach.
11. **ESCONDIDO CREEK/CONCRETE DRAINAGE CHANNEL**
    Perform condition survey; complete targeted potholing to confirm viable corridor; initiate early ROW coordination (easements). Packaging at this location has merit to isolate the USACE permit from the rest of project.
12. **WTP PROPERTY ALIGNMENT - ACCESS ROAD OR DIRECT**
    Evaluate access road vs direct tunneled alignment; coordinate closely with WTP staff; evaluate slope stability; develop construction schedule (multi-shift) to minimize disruption, including winter construction constraints (fewer chemical deliveries). Standard operating procedures will consider road widening to improve constructability.
13. **EVWTP CONNECTION**
    Evaluate connection location (filters vs. clearwell); conduct operator workshop to define acceptable standard operating procedures; perform hydraulic modeling; confirm capacity, tie-in, and operational constraints early, then document decisions.
14. **PROJECT-WIDE GEOTECHNICAL CONDITIONS**
    Advance targeted borings, rock cores, and geophysical investigations in high-risk open-cut and trenchless areas; develop geotech baseline assumptions; align findings with construction approach and risk allocation strategy.
15. **PIPE MATERIAL STAGING**
    Develop a staging plan integrated with traffic control and detour strategies; identify staging areas early to support efficient construction sequencing, truck haul routes, and to minimize community impacts.
16. **ENVIRONMENTAL CONDITIONS**
    Advance Level 2 Environmental Site Assessment investigations based on FRAS findings; integrate contamination results into alignment, permitting, and construction planning.
17. **DEMO OF EXISTING FLUME**
    Define demolition strategy that considers permitting, dust and erosion control, and community impacts; coordinate easement modifications; and integrate demolition sequencing with new construction to maintain service continuity.
18. **CIP PROJECTS BY OTHERS**
    Coordinate on alignments and timing with adjacent CIP projects to prevent conflicts or consider the benefits of inclusion in the same contract to reduce cost, risk, or community impacts.

▲ **TRENCHLESS CROSSINGS:** Advance trenchless crossings through early feasibility screening, targeted shaft borings, and constructability workshops to confirm appropriate methods (e.g., microtunnel boring machine vs jack-and-bore), optimize shaft locations, and reduce risk to adjacent infrastructure.

◆ **SERVICE CONNECTIONS:** Define and validate service connections through hydraulic modeling, operator coordination, and targeted design development to confirm capacity, operational flexibility, and constructable tie-in configurations early in design.

1.2.2 Design Phase Potholing: During 60% design the Consultant will conduct the potholing required to inform the Final Design of this project in accordance with the above requirements along the final alignment. As a basis for costs, the consultant used the FRAS drawings and recent pipeline project experience in Escondido, to arrive at a total number of potholes for design. For this subtask, the basis for costs is a total of one-hundred and twenty-five (125) potholes. The potholing effort includes utility locating and field mark-out activities performed in advance of potholing to support utility identification and pothole placement. As a basis for cost, 1,128 labor-hours are included for utility locating during the Design Phase. This effort is anticipated to mark-out the utilities along the entire alignment.

1.3. Utility Mapping

The Consultant shall plot on a suitable map the locations of identified above and below ground utilities and facilities and identify any that are incompatible with the preliminary alignment. The Consultant is to identify locations of utilities having a critical relationship to the Flume replacement pipeline alignment and appurtenant facilities and provide written recommendations to remedy conflicts. Utilities that are in proximity to the proposed Flume replacement pipeline alignment that are to be protected in place shall be identified and discussed. Private and public entities such as Dig Alert USA, telephone companies, cable companies, special districts, gas and electrical companies, water agencies, and other utility companies shall be contacted. Proof of engagement with said entities including correspondence and contact information shall be provided and presented in a utility contact log. All records received from the utility entities will be submitted to the District digitally.

1.4. Easement and ROW Mapping

1.4.1. ROW Analysis and Mapping

The Consultant shall determine jurisdictional boundaries, ROWs, and easements of public agencies and utilities over and adjacent to the proposed Flume replacement pipeline alignment and identify specific permits, fees, and lead times for permit issuance. In addition, the Consultant shall generate road cross section figures at important or strategic locations, or as requested by the District or jurisdiction, showing paved widths, ROW limits, sidewalks, curb and gutter, medians, existing utilities, trench and traveled lane widths (with any necessary shoring and/or k-rail installations), tunneling pits, and staging and access needs or other information deemed important as part of this early analysis to determine construction constraints and impacts to traffic.

For alignment segments proposed outside of existing ROW, identify temporary and permanent easement and fee acquisitions that may be required for construction and ongoing operation and maintenance including temporary/permanent access roads. Public and private entities such as Caltrans, the County, cities, franchise utilities, special districts, landowners, and developers along the alignments shall be identified. These entities shall be contacted to identify existing and planned land uses, compatibility of publicly owned lands with the Flume project's use, areas under development or proposed for development, and any restrictions on land use.

The Consultant will evaluate whether the proposed FRAS Alignment 1, the beginning segment of Alignment 2, and the segment of Cassou Road between Robinhood Road and Sycamore

Drive (henceforth referred to as "FRAS Alignments 1.1.1, 2.1.1, and Cassou Road") requires adjustment based on California Environmental Quality Act (CEQA) analysis, ROW constraints, utility evaluations, or other significant concerns. Such concerns may necessitate additional research, investigations, and constructability assessments of adjacent segments.

If the pipeline must be rerouted around constructability or environmentally prohibitive obstacles, the baseline fee covers up to a cumulative ½-mile (0.5-miles) of alternative segment analysis at no additional cost. Full and final design will require invoking select optional services depending on the design tasks and effort required to accommodate the rerouting in the design.

1.4.2. Property Needs Assessment and Legal Descriptions

Using information from the above subtask, this subtask will complete the ROW needs assessment for both near-term construction requirements as well as long-term operation and maintenance associated with the Flume Replacement Pipeline. Once the final alignment is validated and property needs are known, the Consultant will develop the legal descriptions needed to acquire the necessary properties. Based on the FRAS, it is assumed that the Consultant will prepare up to twenty (20) plat and legal descriptions.

1.4.3. Permitting Needs Assessment

Consultant will evaluate the cost and schedule requirements for securing the necessary permits to install the new replacement pipeline, its associated facilities, as well as demolish/abandon the existing Flume. The Consultant will contact each agency having jurisdiction, which for the basis of cost were assumed to include the City of Escondido, City of San Marcos, County of San Diego, California State Water Resources Control Board - Division of Drinking Water (DDW), Army Corp of Engineers, Water Authority, and Caltrans, to inform them of the project and obtain the relevant information. Environmental permitting efforts associated with this project are included under Task 4.

Deliverables

Provide draft and final digital copies of a utility base file, all records gathered (including pothole reports prepared by potholing subconsultant), contacts list, photos, figures, summarize recommendations (MS Word and PDF) to remedy conflicts, and submit comment and review log. This data may be used to facilitate workshops/meetings (as budgeted under Tasks 10 and 11) with staff to refine design elements and determine if alignment modifications are needed. This information may also be used for public outreach and engagement.

At the completion of Task 6 – Alignment Validation the consultant will submit to the District a digital copy of the project base map in AutoCAD Civil 3D (.DWG) to serve as a record from which Task 8 - Preliminary Design will be initiated. This file will contain the digitized data collected from Task 1 (above) and Task 2 (below).

2. TOPOGRAPHIC AND LAND SURVEY

The Consultant is required to retain and provide professional land surveying services to prepare

Flume project horizontal and vertical datum controls; topographic mapping; surveying within the project's practical limits; existing structures; utilities (including surveyable elevations); poles; valves; hydrants; water service boxes; culverts and headwalls; drainages; manholes/vaults; pavement/curb/gutter/median limits; trees and vegetation; and boundary mapping from title reports; plat maps and surveys including parcels; ROW, and easements; and other items relevant to the design. Unless otherwise approved by District, the survey is to be based on the North American Vertical Datum of 1988 (NAVD 88) and the California Coordinate System of 1983 (CCS83), Zone 6.

The Consultant's professional land surveyor will deploy an aerial survey to construct the initial topographic survey basemap. Then, using its survey field crews, the land surveyor will perform ground topographic surveying to complete the project's basemap for design. During the design phase, the land surveyor will return to the site to record the locations of the potholes and soil borings for inclusion on the project's basemap for final design and contract documents. The survey shall be conducted in accordance with the above-stated requirements. This work will be conducted over the following three subtasks.

2.1. Validation Phase – includes aerial survey of the full alignment and ground survey within the identified pinch points.

2.2. Preliminary Design Phase (30%) – completes the ground survey along the final alignment.

2.3. Final Design Phase (60%) – additional ground survey to collect data gaps discovered during design as well as survey the location of the potholes and soil borings.

2.4. Easement Plats & Legals (20 max): Consultant will prepare up to twenty (20) plat and legal descriptions to support proposed easements required for the new pipeline. This includes research for ownership and property rights to dedicate. After working alignment is confirmed, Consultant will prepare plat and legals for proposed utility easements and temporary construction easements, if any. Cost does not include the cost of Title Reports.

Deliverables

To be incorporated with the basemaps prepared under Task 1 above.

3. GEOTECHNICAL AND GEOPHYSICAL INVESTIGATIONS

Review geological and geotechnical information and evaluations contained in the FRAS. Perform site reconnaissance and gather existing topographical maps, soil maps, and aerial survey data. Gather and review available existing geotechnical and geophysical reports pertinent for the Flume project. Assess geologic constraints for constructability, engineering and environmental assessments particularly as it relates to the potential for soil and groundwater contamination or other sensitive concerns. Identify all surface, subsurface, topographic, and geotechnical risks or avoidance areas that could negatively impact design, permitting, construction costs, or long-term operations and maintenance.

The Consultant shall prepare for and conduct geotechnical and geophysical investigations including submitting a plan for borings and test along the alignment segments at strategic locations that warrant investigation to obtain better information for design. The Consultant will walk the alignment segments to mark boring locations and delineations with white paint for the boring/drill rig contractor to notify Dig Alert USA before digging. The Consultant is to survey the location of each boring and/or limits of trench pits and include this data in the base files and plan sheets. The Consultant's geotechnical subconsultant shall secure all necessary permits, and the boring/drill rig sub-contractor is to provide all necessary traffic controls and follow the requirements of the permits obtained.

The geotechnical report shall discuss site conditions, earth materials, soil properties, slope stability, trenching, shoring, tunneling, groundwater and dewatering requirements, seismology, geophysical data, and excavation difficulty. It shall evaluate and determine the most appropriate and cost-effective trenching or trenchless construction methodologies to be used in design and discuss their locations. The report shall report production rates for use in design, but as not to dictate contractor means and methods, for both trench excavation and tunneling activities and identify any other geotechnical issues that may be encountered during Flume replacement pipeline construction and recommend methods to mitigate them. The geotechnical report shall discuss foundation requirements for appurtenant facility structures and establish corrosivity potential for cathodic protection design by the Consultant. It shall summarize and tabulate the analysis and note any significant geotechnical issues discovered as part of this work that may affect the Flume replacement pipeline alignment location, constructability, cost, or schedule.

The Consultant will evaluate whether the proposed FRAS Alignment 1 or the beginning segment of Alignment 2 may need to be adjusted based on geotechnical assessments, which may necessitate more robust geotechnical investigations, geophysical analyses and constructability evaluations of adjacent segments. As for the basis of cost, the total assessment length for the adjacent segment(s) will not exceed ½-mile (0.5-miles) deviating from the recommended alignment presented in the FRAS (i.e. FRAS Alignments 1.1.1, 2.1.1, plus Cassou Road).

3.1. Geotechnical Investigations

3.1.1. Validation Phase Investigations – includes the project-wide geotechnical investigations for the entire project corridor. This includes up to sixty (60) soil borings (52 borings to a depth up to 20-feet and 8 borings to a depth of 40-feet), groundwater characteristics testing to quantify dewaterability at up to four (4) locations, and 3-days of seismic line investigations (between 12 to 18 lines depending on field conditions). Consultant will provide "full-service" field work for this geotechnical scope, which includes permitting, traffic control, drilling, backfilling, and pavement patching in accordance with the agency having jurisdiction.

3.1.2. Design Phase Investigations – No additional testing geotechnical investigations is anticipated during this period. Additional geotechnical investigations are provided under "Optional Services" if the need arises or is discovered during the Validation Phase.

3.2. Geotechnical Investigation Reports – includes the draft report, responses to client comments, and final reports for four (4) written deliverables which include: Geotechnical Data Report, Geotechnical Design Report, Design Criteria Memorandum (Open-cut), and Basis of

Design Memorandum (Trenchless).

3.3. Cathodic Protection (CP) Field Testing: Consultant will conduct CP field testing as described below to evaluate subsurface corrosion conditions, identify areas of active corrosion risk, and support assessment of cathodic protection system performance. Field activities will include:

A. Electromagnetic (EMAG) survey to locate and assess metallic structures and identify areas of coating degradation will be performed along the entire pipeline alignment.

B. 4-pin soil resistivity testing to characterize soil corrosivity along the entire alignment soil-air (SAC) survey to detect active corrosion cells and potential coating damage

C. DC stray current survey to identify the presence and magnitude of stray direct current interference from foreign sources performed in locations where existing foreign pipeline rectifiers are installed adjacent to the proposed pipeline.

In addition, Consultant will collect soil samples at designated locations for laboratory testing to determine soil properties relevant to corrosion activity. All field testing will be performed by qualified personnel using calibrated equipment and in accordance with applicable industry standards and safety practices.

The results of the field testing will be included in the Conceptual CP Technical Memorandum (TM) and inform the preliminary (30%) cathodic protection design.

Deliverables

Provide draft and final electronic copies of proposed boring/geophysical plans and the geotechnical/geophysical report and comment and review log. Provide draft and final electronic copies of Conceptual CP TM

4. ENVIRONMENTAL COORDINATION AND PERMITTING

As part of CEQA preparation, the Consultant will build upon the alignment alternatives analysis in the FRAS and prepare appropriate technical studies including biology, cultural and historical (note the District prepared a Historic American Engineering Report for the Flume in 2016), noise, traffic and transportation, air quality and greenhouse gas emissions, hydrology and water quality, recognized environmental conditions (e.g., Phase 1 Environmental Site Assessment), geologic and geotechnical hazards, as well as proposed planned projects within the project corridor and their cumulative impacts as identified in Subtask 1.1.1.B above. However, the Consultant shall verify the conditions that informed the analysis in the FRAS have not materially changed. Any changes should be noted in the updated analysis. As part of this effort, the Consultant shall confirm and expand upon the environmental influences and constraints identified in the FRAS, including the work performed updating data collection, utility research, and ROW surveys, topographic and land survey (see Task 2), geotechnical and geophysical investigations (see Task 3), and system hydraulic analysis and flow control requirements (see Task 5), which will ultimately lead to the Consultant preparing an EIR.

It is expected the work to prepare the environmental technical studies will begin during the alignment validation phase with the formal EIR for the Flume project commencing after that. The Draft EIR's public review period will be held concurrently with the District's review of the Draft

Preliminary Engineering Report. Public Review Comments and District Review Comments will be addressed concurrently and incorporated during the preparation of the Final Preliminary Engineering Report. The Final EIR's certification and adoption by the Board will occur thereafter, likely during 60% Design.

The above work is organized into the following subtasks.

4.1. Project Initiation, Scheduling, and Data Needs

The Consultant environmental principal and environmental project manager will participate in a project kick-off meeting with District staff and the consultant design team. Consultant environmental staff will collect and review background documents on the project and develop a list of information/data needs for submittal to the design team that will enable commencement of preliminary environmental research and assessment. Consultant will provide environmental schedule input for B&C's detailed master schedule.

4.2. Alignment Validation Support

The Consultant environmental lead and technical specialists will support the design team during the alignment validation process. Consultant understands their alignment validation review will focus on 18 "pinch points" where they will assess the potential to divert from the preferred alignment. Consultant will provide separate environmental input at all 18 pinch points. Because of the alignment's mostly urban setting and the limited potential for diversions causing major differences in the project's environmental process, impacts, and mitigation, Consultant assumes the input at 14 of the pinch points will focus on desktop review by environmental planners and technical specialists to offer general advice regarding how prospective alignments will affect receptors and resources. The remaining four pinch-point assessments will entail more detailed review and input, including site visits, resource mapping for biological resources/jurisdictional waters, and review of cultural resources records search.

Environmental technical work that will be conducted during the alignment validation phase includes biological resources and cultural resources work described below. Constraints assessment for the remaining environmental disciplines can be performed by planners and specialists without technical review.

At the beginning of the validation assessment phase, Consultant will initiate an update to the cultural resources records search performed for the FRAS coarse-screening evaluation. The updated records search will cover the preferred alignment, the existing Flume alignment, and a 1-mile buffer, but focus on records submitted to the California Historical Resources Information System (CHRIS) clearinghouse since the coarse screening records search was performed in 2021. Consultant archaeologists and historians will process and review the results of the initial records search and records search update to inform constraints assessment during alignment validation. This records search data will be incorporated into the cultural resources inventory reports for archaeology and historic built environment that will be prepared during the CEQA review process (Tasks 4.3 and 4.4). Consultant cultural resources specialists will use the records search results to inform a constraints assessment for validation input, assessing presence of historic resources that could present a

complication for the project's environmental review process or otherwise constrain project development. Consultant will provide input to the design team during meetings and via email, with no standalone report or memo to be produced.

Alternatives under consideration at the far upstream and downstream ends of the proposed alignment could entail diverting the pipeline installation into areas outside the fully urbanized setting characterized by most of the project study area. This includes an area of densely vegetated slopes south of the EVWTP, where the project may divert from the preferred alignment following the plant access road; and an area featuring rural residences and agricultural uses with scattered patches of vegetation, following a southern alignment mostly within Cassou Road. This downstream section also crosses or abuts drainages that could be under federal or state jurisdiction and require waters permitting and mitigation. At these upstream and downstream diversion locations, Consultant will conduct a baseline biological resources assessment during the validation phase to define constraints, permitting needs, and mitigation implications of decisions to divert from the preferred alignment. Consultant will review the California Natural Diversity Database, California Native Plant Society, U.S. Fish and Wildlife Service occurrence data and critical habitat, the San Diego Natural History Museum's Plant Atlas, Mammal Atlas and Bird Atlas, National Wetlands Inventory, the National Hydrologic Database, and the San Diego Area Soil Survey databases to identify potentially occurring special-status species. Consultant will conduct pedestrian surveys to map native vegetation, record species observations, and assess habitat for its potential to support special-status species. Consultant's fee proposal assumes the field survey area will include up to 85 acres of steep hillside terrain in the upstream part of the project and up to 135 acres of partially developed rural land in the downstream side of the project. Consultant will prepare a baseline biological resources report that includes vegetation maps, photographs, and discussion of resources that could affect the environmental impact review process, permitting needs, or mitigation obligations and serve as a constraint to the project.

Consultant assumes participation by the environmental project manager and CEQA lead at four (4) meetings with the design team during the alignment validation phase. Consultant will provide text describing the results of our environmental assessment for inclusion in a B&C report, but it is not anticipated to produce a standalone report specific to the environmental component of alignment validation. Consultant will prepare for and attend a District Board of Directors workshop to present information about the environmental components of the design team's validation process.

4.3. Project Description/CEQA Scoping/Notice of Preparation (NOP)/Assembly Bill (AB) 52

During the later stages of the alignment validation, Consultant will initiate the scoping process pursuant to CEQA. Consultant will prepare a NOP of a draft EIR and coordinate its advertisement and public/agency circulation. Consultant will meet with and provide input to B&C's outreach team to identify stakeholders and help develop an outreach and notification strategy. Throughout the scoping process, Consultant will coordinate our work with the outreach team to remain aligned with stakeholder coordination needs and goals.

The NOP will include a project description narrative developed in coordination with the design team, including GIS figures showing the proposed alignment, potential alternative alignments still under District consideration, and components of the existing Flume that are proposed

for demolition or other physical abandonment activity. The NOP will include a CEQA Initial Study that outlines environmental impact disciplines that will be studied in detail in the EIR and that provides sufficient conclusion on environmental topics that do not need to be covered in detail in the EIR. Consultant assumes the following topics can be cleared in the Initial Study and will not be carried through into the EIR: agricultural/forestry resources; population and housing, and mineral resources. Consultant will coordinate a newspaper advertisement for the NOP and a direct mailing to agency representatives, project neighbors, and project stakeholders, assumed to be up to 500 mailings via U.S. Postal Service.

Consultant will prepare for and attend one public scoping meeting during the NOP public review period, to be held during a District Board of Directors workshop for the project. Consultant will compile written comments received during the NOP public review period and comments made during the scoping meeting. Consultant will provide a summary of the scoping period and public review comments for inclusion in the EIR.

Following completion of the archaeological resources report (Task 4.4.3 below) Consultant will assist the District in completing its government-to-government tribal consultation per AB 52. Consultant will draft outreach letters/invitations to consult, to be sent on District letterhead; work with the District to follow up on consultation requests; and attend tribal meetings to assist the District and take meeting notes, if so authorized by the Tribes. Consultant's scope assumes participation in twenty (20) meetings, of which 15 will be virtual and five will be in-person. Each meeting will last no longer than 1 hour; in-person meetings include an additional 1 hour each for travel and prep. Site walks can be accommodated but may require a contract augment to cover staff time, travel time, and mileage.

4.4. Environmental Technical Studies

Consultant will prepare the following technical studies for incorporation into the EIR and National Environmental Policy Act (NEPA) documentation. All other CEQA topics will covered directly in their respective EIR sections and do not warrant preparation of a detailed standalone report. Technical studies will address the project impact area associated with installation of the pipeline alignment approved by the District following the validation process, including trench segments, jack-and-bore pit sites, and other work areas needed for construction. The studies will also consider impacts from demolition of the existing Flume's bench sections and contractor activity occurring at existing pipeline structures for abandonment of the Flume's underground siphons and tunnel sections. Consultant assumes the design team will identify prospective staging sites along the alignment for consideration in the environmental analysis.

4.4.1. Air Quality/Greenhouse Gas Technical Report

Consultant will prepare a technical report assessing the air quality and greenhouse gas (GHG) emissions impacts of the project addressing the significance thresholds in Appendix G of the CEQA Guidelines and the San Diego County Air Pollution Control District's (SDAPCD's) emissions-based thresholds. Consultant will first prepare a request for any outstanding data needed to conduct the analysis, for submittal to the design team, and meet with the design team to discuss construction assumptions and other input needed for emissions model development.

Consultant will estimate air pollutant emissions associated with the construction phase of the proposed project using the California Emissions Estimator Model (CalEEMod). The analysis of short-term construction emissions will be based on scheduling information (e.g., overall construction duration, phasing, and phase timing) and probable construction activities (e.g., construction equipment type and quantity, workers, and haul trucks) developed by the District and/or standardized approaches. Consultant will then evaluate the significance of the construction emissions based on the County of San Diego mass daily criteria air pollutant significance criteria that the District applies (i.e., San Diego County's Guidelines for Determining Significance – Air Quality). The analysis will include a construction-phase health risk assessment evaluating the potential for the project to expose sensitive receptors to toxic air contaminants during construction from on-site diesel exhaust emissions.

Consultant will estimate the greenhouse gas (GHG) emissions associated with construction of the project using CalEEMod based on the same construction scenario utilized in the air quality analysis. Project-generated operational GHG emissions that will be estimated will include those primarily associated mobile sources. When project details are not available, CalEEMod default values will be used to calculate direct and indirect source GHG emissions. GHG emissions will be presented in the analysis and details of the analysis (e.g., annual GHG emission calculations) will be included in an appendix. Consultant will assess the significance of the proposed project with respect to the CEQA Appendix G thresholds; specifically, whether a project would (1) generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment and (2) conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. The District has not adopted a quantitative GHG emissions significance threshold or a qualified GHG reduction plan for CEQA purposes; Consultant will coordinate with District staff to identify an appropriate and defensible significance threshold for the project.

4.4.2. Biological Resources Technical Report

Consultant will conduct additional literature review, field surveys, and impact assessment of the project construction and demolition work areas that were not included during the validation phase studies. The study area will include project impact areas identified following alignment validation and a 500-foot buffer. Pedestrian surveys will be conducted on foot along the alignment. The majority of the pipeline installation alignment will be limited to public roadways, with no access to private property. At the Flume demolition sites, Consultant assumes the District will provide access information for existing roads and ROW that can be legally and safely walked by field biologists.

Following the field assessment, Consultant will prepare a technical report documenting existing conditions and direct/indirect impact findings based on work limits identified by the design team. Vegetation communities and special-status botanical and wildlife resources will be described in terms of their regional significance and presence on site, including an estimate of observed special-status species' population size and condition. A description of each vegetation community within the project area will include information found in a literature review as well as project-specific data recorded in the

field, such as general species composition, a brief description of location, and any notes pertaining to habitat quality or level of disturbance. All botanical and wildlife resources observed or with potential to occur on site with any reasonable potential to constrain the project will be addressed in the report. A table summarizing the special-status plant and wildlife species that occur in the project vicinity, but which have no reasonable potential to occur or otherwise constrain the project, will be included as an appendix but not discussed further. Graphics will be included that show the project location, regional context, extent of each vegetation community mapped within the project area and 500-foot buffers, potential jurisdictional resources, and special-status plant or wildlife species observed. All plant and wildlife species encountered and identified will be recorded to include as an appendix to the letter report.

Consultant's proposal includes optional tasks for species-specific surveys (Task 14.9) that may be needed to support impact conclusions pursuant to CEQA, or that may be needed prior to issuance of resource agency permits for the project's prospective impacts on jurisdictional waters or habitat for special-status species. These are listed as optional because they cannot be assumed as a project requirement until collection of additional baseline conditions information and provision of additional detail on project impacts.

4.4.3. Archaeological Resources Technical Report and National Historic Preservation Act (NHPA) Section 106 Report

Consultant will prepare an archaeological resources technical report addressing the selected alignment and demolition/abandonment work areas. The report will be prepared to assess impacts pursuant to CEQA and Section 106 of the NHPA. The report will begin by identifying an area of potential effects map and refinement of the records search results relative to the updated project impact boundaries.

Consultant will contact the Native American Heritage Commission (NAHC) for a review of its Sacred Lands File (SLF). The NAHC will determine whether any NAHC-listed Native American sacred lands are located within or adjacent to the Area of Potential Effects (APE). With permission from the District, Consultant will prepare and mail a letter to each of the NAHC-listed contacts, requesting that they contact us if they know of any Native American cultural resources within or immediately adjacent to the APE. We assume no more than thirty (30) Native American will need to be contacted. Upon completion of background research, Consultant will conduct a pedestrian survey of the APE for cultural resources (including both prehistoric and historic archaeological resources) in accordance with agency standards and California Office of Historic Preservation (OHP) approved methods and guidelines.

Upon completion of background research, Consultant will conduct a pedestrian survey of the APE for cultural resources (including both prehistoric and historic archaeological resources) in accordance with agency standards and OHP approved methods and guidelines. Consultant will subcontract with Saving Sacred Sites to provide a Native American monitor to be present during the survey. Based on aerial photographs and due to the developed nature of the project alignments (i.e. asphalt-concrete roadways), a Consultant archaeologist and a subcontracted Luiseño Native American monitor will conduct a windshield survey of the project alignment sections that are highly developed

and have no visibility for potential resources. Consultant assumes up to six (6) previously recorded resources requiring updated documentation will be identified in the field, but assumes no discovery of new, unrecorded resources and significance evaluations of new resources.

Consultant will prepare a cultural resources report formatted according to CEQA guidelines. The report will document the results of the CHRIS records search, NAHC SLF search, Native American outreach, and pedestrian survey. The report will discuss the potential for project construction to impact cultural resources and will present recommendations for appropriate management pursuant to CEQA.

Consultant will prepare a separate archaeological resources report compliant with Section 106 of the NHPA, based on Army Corps preference. The archaeological resources report will include the completed records search, an evaluation of archaeological resources in accordance with Section 106 of the NHPA and provide the recommended findings of effect under Section 106 of the NHPA to archaeological resources that will or could occur as a result of implementation of the project.

4.4.4. Historic Built Environment Inventory and Evaluation

Consultant will conduct an inventory and evaluation of historic built environment resources along the proposed alignment and within the demolition/abandonment work area to support the District's CEQA determination and federal approvals for the project pursuant to NHPA Section 106. Consultant historians will review the records search results updated by Consultant's archaeology staff to identify previously recorded historic built environment resources that may be located within or directly adjacent to the project site. As part of this task, Consultant will conduct background research to develop an appropriate historic context to evaluate the potential significance of cultural resources identified within the project study area. Consultant will also coordinate with local historical societies, advocacy groups/stakeholders who may have information on cultural resources within the project area and their history. This coordination will include limited outreach via emails and phone calls concerning the project area and its historical associations. Consultant will develop a built environment study area map to assess potential impacts on cultural resources under CEQA and an APE map for compliance with Section 106.

Consultant staff will conduct a field survey to record historic-era built resources in the study area/APE. Based on preliminary research, Consultant assumes no more than twenty-one (21) resources will require survey, photo documentation, and evaluation for historical significance in order to determine if the proposed project has the potential to affect a historical resource or a historic property. Consultant will record these resources on updated Department of Parks and Recreation form sets with evaluation in consideration of National and California Register of Historical Places (NRHP and CRHP), and local designation criteria and integrity requirements. Consultant assumes that these resources, including the existing Flume, will be confirmed as ineligible as a historical resource and an impact analysis and the development of mitigation measures will not be required. If further research into the history of the Flume indicates that the structure appears eligible for listing as a historic resource, Consultant has provided an optional task (Task 14.9.2-C) for additional support to obtain project approvals during

the permitting phase.

Consultant will prepare two separate Cultural Resources Inventory and Evaluation Reports—one for CEQA and the other for NEPA/Section 106, based on Army Corps preference—that will summarize the results of the survey, research, and resource significance evaluations. If the Army Corps is not the federal lead agency, Consultant can prepare a single report covering both the state and federal processes, and reduce our fee accordingly.

4.4.5. Construction Noise and Vibration Analysis

Consultant will prepare a construction noise and vibration analysis assessing impacts on nearby receptors from installation of the new pipeline and demolition activities for the existing Flume. The analysis will consider thresholds relative to the different land use jurisdictions where construction work will occur. Consultant will review applicable local noise ordinances and general plan noise element policies for each jurisdiction traversed by the pipeline alignment and existing Flume corridor for incorporation into the report. Consultant will prepare and submit a data request to identify information needs for the noise and vibration analysis.

Consultant will conduct a field noise monitoring program to characterize the existing ambient noise environment along representative segments of the project corridor. The monitoring program will include up to six (6) short-term attended noise measurements (approximately 15 to 30 minutes in duration) at representative noise-sensitive receptor locations along the corridor. Measurement locations will be selected to capture the range of land use contexts encountered along both the new pipeline alignment and the existing Flume. Consultant will deploy up to three (3) long-term unattended noise monitors (minimum of 24 hours each) at representative receptor locations along the project corridor to establish representative existing day-night noise conditions. Consultant will compile, process, and quality-check field data for incorporation into noise modeling work.

Using the construction equipment rosters and phasing information obtained through the data request, Consultant will predict construction noise levels at nearby noise-sensitive land uses using the Federal Highway Administration Roadway Construction Noise Model or a comparable methodology. For each construction phase across both pipeline installation and Flume demolition/abandonment, Consultant will identify the reference noise emission levels for the anticipated equipment and predict composite noise levels at representative receptor distances. Predicted construction noise levels will be compared to applicable noise standards for each jurisdiction and to CEQA significance thresholds. Where construction activities may also occur during nighttime hours, the analysis will address both daytime and nighttime construction noise exposure.

Due to the relative uniformity in noise environment of much of the proposed pipeline alignment, Consultant will derive screening distances for each construction phase, representing the distance from active construction at which noise levels would attenuate to below applicable thresholds. Screening distances will be calculated for both daytime and nighttime thresholds (where applicable) and will be presented in

tabular format to facilitate identification of potentially affected receptors along the alignment. If construction noise levels are predicted to exceed applicable thresholds, Consultant will develop noise-control measures and best management practices that can be incorporated into project construction specifications.

Consultant will assess potential ground-borne vibration impacts from construction activities at vibration-sensitive receptors and structures in proximity to both the new pipeline alignment and the existing Flume corridor. Using Federal Transit Administration and Caltrans reference vibration source levels and propagation methodologies, the analysis will evaluate typical construction equipment anticipated for pipeline installation (e.g., excavators, loaded trucks, vibratory compactors, drill rigs for trenchless construction) as well as demolition equipment associated with Flume removal (e.g., hydraulic breakers, hoe-ram attachments, concrete crushers) and predict peak particle velocity (PPV) levels at representative receptor distances.

Consultant will prepare a noise and vibration technical study for incorporation into the project EIR. The technical study will be prepared in compliance with the State CEQA Guidelines, including Appendix G significance criteria for noise and vibration impacts.

4.5. Draft EIR

Consultant will prepare a Draft EIR for review and comment by the District, which will include the following chapters required by the State CEQA Guidelines: Introduction, Executive Summary, Environmental Setting, Project Description, Environmental Analysis, Cumulative Impacts, Other CEQA Considerations, and Alternatives to the Project. Each of the EIR's Environmental Analysis sections will include a discussion of each environmental topic within four main sections: (1) Existing Conditions, (2) Regulatory Framework, (3) Impacts and Mitigation, and (4) References.

Consultant assumes the following environmental impact categories will be addressed in a section covering impacts that were identified in the Initial Study as being less than significant and not needing full EIR analysis sections: agricultural resources; mineral resources; and population and housing. Remaining environmental impact categories listed in Appendix G of the State CEQA Guidelines will be covered in individual analysis section of the EIR.

Consultant will consult with the design team and the District to develop a "reasonable range" of project alternatives, as required in an EIR, for comparison to the preferred project's impacts. The EIR's alternative section will include a detailed discussion of the project's years-long alternatives analysis process completed by the District, which included environmental consideration during the screening process.

Consultant anticipates two rounds of review of the Draft EIR (referred to as Screencheck 1 and Screencheck 2). Consultant will submit the Screencheck 1 Draft EIR sections to the District for the first internal review; once consolidated comments are received from the District on the EIR sections, we will prepare the second-round Draft EIR sections for Screencheck 2.

Upon receipt of all comments on the Draft EIR, Consultant will prepare the Public Review Draft EIR for final review and approval to reproduce by the District.

Consultant will prepare and publicly distribute the Public Review Draft EIR to the County Clerk, State Clearinghouse (SCH), responsible and trustee agencies, surrounding jurisdictions, and other interested parties pursuant to the distribution list prepared by Consultant in coordination with District. Consultant will prepare and submit a draft and final copy of the Notice of Availability (NOA) to be distributed to the parties on the distribution list. Consultant will distribute the deliverables via certified mail and/or overnight service. An optimized, online-ready electronic version of the draft EIR will also be provided to the District. Up to five (5) hard copies of the Public Review Draft EIR will be provided by Consultant.

Consultant understands a public meeting may be conducted during the circulation of the Public Review Draft, on an as-needed basis. This third CEQA-related meeting (in addition to the NOP scoping meeting and the certification and adoption of the Final EIR) would be reserved and employed at the discretion of the District staff or the Board in relation to CEQA. If it is decided that a meeting will be help during this time, Consultant will prepare for and attend a public meeting, coordinating with B&C's outreach team to ensure engagement with the appropriate stakeholders.

4.6. Final EIR

Following the completion of the CEQA public review period, Consultant will compile, review, and provide responses to comments from all agency and public comments that raise substantive environmental issues associated with the Public Review Draft EIR. Should comments on the Draft EIR raise new issues or require new surveys or technical studies be conducted to complete an adequate response, Consultant will initiate discussions immediately with the District. Consultant will prepare a Final EIR that includes the responses and any revisions made to the Draft EIR in response to public comments (in hardline underline and strikethrough). A preface to the Final EIR will also be prepared describe the organization of the Final EIR. Consultant anticipates one screencheck of the Final EIR and one final submittal of the Final EIR. Consultant will prepare a mitigation monitoring and reporting program (MMRP), and CEQA Findings of Fact for inclusion in the District's certification decision. Consultant will attend the Board public hearing in which EIR certification and adoption is considered and be prepared to respond to Board member questions regarding the project's impacts and CEQA process. Consultant will prepare the necessary Board packet materials, and will prepare and submit required documents for posting upon conclusion of the Board meeting. Consultant will prepare a draft and final copy of the Notice of Determination (NOD) for filing with San Diego County within five days of EIR certification. Consultant will pay the California Division of Fish and Wildlife (CDFW) filing fee at the County Clerk's Office, to be reimbursed by the District. Consultant will also be responsible for posting the Final EIR on the SCH CEQA portal.

4.7. NEPA Document and Support

Consultant will prepare documents and provide agency coordination support for the project's anticipated NEPA process. Based on information in the proposal, Consultant believes one of the financial options open to the District is the Army Corps Water Infrastructure Financing Program (CWIFP), which is a credit assistance program providing direct loans to non-federal entities to support critical local infrastructure investments to improve public safety across

the nation. Consultant's NEPA scope of work assumes the project applies for this program, which has its own specific local agency process to support the Army Corps compliance process. If the project takes a different route to federal funding with a different NEPA process, Consultant will evaluate the scope of work and fee estimate to determine appropriate coverage of the work that is required.

The Army Corps prepared a NEPA programmatic environmental assessment (PEA) in May 2023 analyzing the potential adverse and beneficial environmental impacts associated with projects achieving funds under the CWIFP program. The PEA presents nationwide information on existing conditions and discusses potential impacts and mitigation measures that might typically occur during construction and operation of broad project types. This PEA includes an applicant questionnaire to evaluate site specific conditions and impacts for individual projects and to determine if projects impacts fall within the scope of the PEA. Consultant staff will populate the PEA Questionnaire with the known information for the project, relying on the technical studies and EIR prepared for the project's CEQA process, documents associated with the project's permitting process (optional task, if needed), and additional information from the design team and District staff where needed. Consultant will circulate a draft of the PEA Questionnaire for design team and District comment, then process a submittal to the Army Corps.

Consultant cultural resources staff will support compliance with NHPA Section 106 during the NEPA process, including tribal consultation support and coordination with the State Historic Preservation Officer (SHPO). Consultant will draft a Section 106 compliance memo to document compliance with Section 106 of the NHPA. As required under federal law, the memo will include a formal APE map and will analyze the known or potential effects to historic properties. Consultant with also establish a record of Section 106 coordination with traditionally culturally affiliated Native American Tribes. The memo will be intended to meet agency consultation requirements with SHPO.

Upon completion of consultation with SHPO and U.S. Fish and Wildlife Service (USFWS) as necessary, Consultant will finalize the PEA Questionnaire. This will include addressing any comments from the Army Corps, SHPO, and tribal consultation, and USFWS Section 7 consultation. After addressing the comments, Consultant will submit the Final PEA Questionnaire, and any technical analysis reports developed in support of consultation, to the District for final review and submittal to the Army Corps for their filing and completion of the NEPA process.

4.8. Meetings

Consultant's environmental team will prepare for and attend the following meetings: project kickoff meeting, bi-weekly (every other week) progress meetings, and submittal review meetings. As part of this scope, Consultant assumes environmental team attendance at 90 bi-weekly meetings during the project's 54-month period beginning with project kickoff and ending during the final design period, when environmental input is no longer critical. Consultant understands the environmental team's attendance may also be expected at additional meetings, including coordination meetings with District departments, other agencies, jurisdictions, or other stakeholders (e.g. DDW, U.S. Army Corps of Engineers, Caltrans, EVWTP staff, Rincon Water, special districts, school districts, homeowner

associations, etc. Consultant and the environmental team will prepare for and participate in or lead up to three (3) Board meetings/workshops. One of those meetings would be the NOP scoping meeting, one would be the Board hearing for the certification and adoption of the Final EIR, and one would be ad-hoc, depending on the District staff's and the Board's needs.

5. SYSTEM HYDRAULIC ANALYSIS AND FLOW CONTROL REQUIREMENTS

Perform the necessary hydraulic analyses, gradient profiles, site reconnaissance, and conduct coordination meetings with the District, Rincon Water, Water Authority and Escondido (EVWTP staff). As part of these requirements, the Consultant shall:

A. Review the FRAS and incorporate any refinements to the alignment or design criteria that may impact the hydraulic analyses or operation of the Flume replacement pipeline.

B. Confirm demands along the Flume replacement pipeline alignment including those in the Boot and Bennet areas and Rincon Water's proposed connection.

C. Size the Flume replacement pipeline to meet all requirements/operating conditions including deliveries along the Flume replacement pipeline, minimum/maximum pressures, and maximum pipeline fluid velocities. Consultant will coordinate with District to define the boundary conditions and operating scenarios for model runs.

D. Size reconnections to all service areas and distribution system/flow control/pressure regulating requirements to accept the new supply configuration necessary to meet existing service levels, as determined by the District in coordination with the Consultant.

E. Identify any impacts to existing interties with agencies and recommend modifications.

F. Confirm minimum and maximum flow regimes/operating levels out of EVWTP and establish minimum and maximum hydraulic grade lines (HGLs) and operational pressures along the Flume replacement alignment.

G. Analyze proposed flow regulation structures out of EVWTP and their locations, which shall include all alternatives shown in the FRAS and any necessary upgrades to retain District's entitlement of 18 million gallons per day (mgd); include downstream pressure regulation (at Pechstein Reservoir) to sustain pressures in the Flume replacement pipeline to meet DDW requirements. If deficiencies exist with a 36-inch diameter Flume replacement pipeline under maximum deliveries and worst-case boundary conditions, identify resulting operational limitations or necessary adjustments (e.g., limited flow allowance to Rincon Water, reducing the sustaining setting at Pechstein, reducing EVWTP flows), likelihood of such an occurrence and cost/benefit to upsize the Flume replacement pipeline versus implementation of alternatives to allow a variance (e.g., pressure monitoring at low HGL locations if pressure sustaining setting is reduced at Pechstein Reservoir).

H. Identify other District, EVWTP, and DDW requirements for controls/supervisory control and data acquisition (SCADA) modifications that are necessary for required monitoring and reporting as well as for operation of the replacement pipeline.

I. Review FRAS for facility siting, facility sizing, land/easement requirements, materials of construction, earthwork requirements, construction access and laydown areas, and other issues deemed relevant by the Consultant and the Flume project team for the required

regulating structures and appurtenances.

J. Model back feeding supplies from VID 3 to all service connections. Determine the optimal location for an emergency connection(s) to Escondido. Review differences in HGLs for all connections along the Flume between normal EVWTP flow and VID 3 backflow scenarios, determine if operation and/or design adjustments may be necessary or if the results presents any limitations.

K. Perform transient analysis identifying possible transient conditions and required surge control facilities or equipment required to mitigate the potential transient condition.

5.1. Validation Phase Hydraulics

The goal of this Phase is to validate the alignment and appurtenances, using the model and recommendations documented in *Technical Memorandum No. 6 – Hydraulic Analysis and Appurtenant Facilities*. Consultant will coordinate with the District to confirm assumptions, monitoring and operating conditions, system data and criteria that will comprise the basis of hydraulic design. Consultant will update the model to match Validation Phase results then run the steady-state and transient hydraulic simulations. This effort will only verify that the Validation alignment is acceptable to advance to Preliminary design. No new scenarios or alternative evaluations will be simulated. Consultant will include the result (pass/fail) of the validation in the Validation TM, a stand-alone deliverable will not be prepared for this modeling work. This task shall only be initiated upon written authorization from the District, should the Consultant identify significant changes or assumptions to the original alignment.

5.2. Preliminary Engineering Phase Hydraulics

During the Preliminary Engineering Phase, the steady-state and transient hydraulic models will be advanced to reflect a 30 percent level of design and "real-life" appurtenant equipment. The analysis will complete the evaluation associated the hydraulic impacts for each one of the four (4) options of connecting the EVWTP to the future Flume replacement pipeline, supporting decision-making on the final EVWTP connection point. The upstream flow control valve and the downstream pressure sustaining valve will be modeled explicitly using inherent characteristic curves from candidate models. Similarly, the combination air valve will be modeled using manufacturer-provided airflow capacity curves. This Phase will add specificity to the interconnecting and flow regulating structures, so that the 18-mgd entitlement is maintained through a cost-effective design. It will also quantify the uncertainties from various model parameters through sensitivity model runs. Model simulations will be carried out to optimize the design configuration considering the impact on regular and emergency connections. The hydraulic design will also focus on air management and blowoff devices that will be located and sized according to the methodology outlined in AWWA's "*M51 Air Valves: Air Release, Air/Vacuum, and Combination*" document. The deliverable of this Phase will be a draft TM that will be submitted to the District for review and approval. The final TM will incorporate all comments from the District as submitted in a consolidated log.

5.3. Final Design Phase Hydraulics

The hydraulic analysis at the Final Design Phase will focus on updating the model and results on

an as-needed basis including any data requests from permitting agencies. In coordination with the District, design changes that are deemed consequential will be included in updated versions of the model. At a minimum, key model runs will be repeated at 100% design to confirm hydraulics and associated design decisions. Updates with respect to the Preliminary Engineering Phase will be incorporated in an Updated TM. These results are highly likely to be required by DDW for permitting purposes.

Deliverables

Hydraulic analysis and appurtenant facilities summary - prepare draft and final hydraulic analysis summary and gradient profiles including comment and review log. List all planning criteria, methodology, results and description of the requirements. As part of the preliminary engineering report (see Task 7) discuss operations, including SCADA, and provide preliminary plan layouts of the appurtenant facilities including proposed EVWTP flow regulation facility and its final location, interties/turnouts, service area reconnection facilities, regulation stations and pressure zones along the alignment (see Task 7.2), Pechstein pressure regulating facility, and any other new facilities proposed under the Flume project.

6. ALIGNMENT VALIDATION

The Consultant shall review the FRAS Alignments 1.1.1, 2.1.1, plus Cassou Road. This effort will confirm assumptions made during the FRAS and that constructability within those alignments remains viable based on new and additional data gathered by the Consultant; conditions may have changed since completing the FRAS or new information may have come to light during formal CEQA activities, geotechnical investigations, more in-depth utility research, potholing, hydraulic modeling, etc. which requires alignment modifications.

Other adjacent segments identified during coarse and fine screening of the FRAS may provide advantages for long term operations, fewer utility conflicts, enhanced constructability and staging, and reduce community and environmental impacts. The Consultant shall assess appropriate FRAS information, review additional pertinent data collected and analyzed, confirm traffic and circulation patterns as well as current and proposed capital improvement projects by other agencies, and evaluate other relevant information to confirm the FRAS recommended alignment is preferred.

Should subsequent information be discovered through additional research as well as the environmental and permitting coordination task (see section 3.2.4), including updated alternatives analysis that influences prior analyses, the Consultant shall recommend adjustments or modifications to the final alignment as the data dictate.

6.1. Alignment Analysis

Study in detail up to 18 pinch points along the Alignment 1 where Consultant will analyze the data collected in Task 1.1.1 to determine if passage through the pinch point areas is feasible. If not, then the Consultant will determine an alternate path or utility relocation required to construct the new pipeline. Modifications will be made, and a final proposed alignment will be established at the conclusion of this work. As for the basis of cost, the total length for the alternate segment(s) will not exceed one-half mile (0.5-miles) deviating from the recommended alignment presented in the FRAS (i.e. FRAS Alignments 1.1.1, 2.1.1, plus Cassou Road).

6.2. Connections Analysis

Consultant will plan the connections at five (5) locations (EVWTP, Pechstein including a backfeed from VID 3, Boot South, Boot North (new loop), and Bennett). This work will include an assessment of space needs, valving and appurtenances, construction staging, and constructability. Proposed conceptual schematics will be presented to the District for concurrence prior to advancing to Preliminary Engineering.

Note, the designs associated with the service connections for Escondido (backfeed from VID 3) and Rincon Water are not included in this scope but are offered below in Task 14.5 as optional services.

6.3. Ancillary Facilities Analysis

Similar to Task 6.2 above, this work will establish the conceptual plan for the ancillary facilities, which we assume to include Flume bench section demolition, Flume siphon and tunnel abandonment (slurry fill or other appropriate method), CP, SCADA communications and telemetry. Proposed conceptual schematics will be presented to the District for concurrence prior to advancing to Preliminary Engineering.

6.4. Technical Memorandum (Draft)

Summarize the above work performed during the Validation Phase of this project in a draft "Alignment Validation TM". Prepare the pertinent text, figures, supporting data and analysis performed which justifies the validated alignment. Submit the TM to the District for review.

6.5. Technical Memorandum (Final)

Receive the District's comments. Prepare and maintain a comment tracking log. Address the District's comments and conduct a comment resolution meeting to confirm and clarify responses. Resubmit for the District's final acceptance.

Deliverables

Submit draft and final copies of an alignment validation technical memorandum including comment and review log.

7. PRELIMINARY ENGINEERING

Consultant will include utility relocation requirements, summary of efforts from Task 1.1.2, considering how the cost/benefit of utility relocation compares to new flume alignment avoidance and/or tunneling. Also, it will address work hours along the alignment, special considerations for access, and confirm interagency requirements for permitting the project. Additionally, Consultant shall seek out means to preserve the selected corridor with jurisdictional agencies during preliminary and final engineering, such as through identification of the future Flume replacement pipeline alignment in their GIS or other methods to prevent the issuance of permits for the installation of other utilities that would conflict with the new alignment.

7.1 Design Criteria

Once the final alignment has been established, the Consultant shall discuss in detail the rationale for the final alignment selection, including adjustments needed, and prepare the Flume replacement pipeline engineering criteria. They shall include discussions on operational hydraulics and SCADA (see Task 5), sketches, cross sections, discussions on Flume replacement pipeline size, materials, external loadings, trench conditions, trench details, backfill design as related to Flume replacement pipeline design and suitability of native soil for backfill, required Flume replacement pipeline wall thickness or pressure class rating, pipe joints, linings and coatings, CP, anchorage, thrust restraint, and location and sizing criteria for appurtenances. Industry standard materials, design manuals, and codes shall be referenced where applicable. Discuss pipeline engineering options and recommendations as it relates to costs, life expectancy, and risk. Discuss plan and profile alignment considerations such as deflection angles and bends, the width and depth of pipe trenches, separation from existing pipelines, utilities and other above and below grade improvements, feasibility of Flume replacement pipeline sections to be tunneled or drilled and portal sites, and similar items related to the design, construction, operations, and maintenance of the Flume replacement pipeline. This effort includes:

a) Assessing the cost/benefit of dividing the project into multiple bid packages
b) Perform a market sounding to effectively prequalify contractors and inform the decision to prepare multiple bid packages
c) Targeted hydraulic optimization for system operations, control, and monitoring through the main alignment and at service area connections
d) Evaluation of EIR development, mitigation, and permitting requirements
e) Information necessary to inform a public relations (PR)/outreach strategy with CEQA
f) Outreach and coordination with DDW

7.2 Preliminary Engineering Plans (30% Design)

Prepare preliminary plan and profile drawings using the base map prepared under Task 1, at a scale of 1” = 20’ horizontal and 1” = 10’ vertical, for the final alignment and include interconnection requirements with existing and planned future facilities. The vertical alignment shall be described by typical cover requirements and special situations where cover may need to be increased to avoid an existing improvement or provide sufficient protection. Address separations to adjacent pipelines and utilities so that the integrity of existing facilities can be analyzed, and provisions identified to verify that these operating utilities shall not be damaged during construction and future maintenance of the Flume replacement pipeline and appurtenances. Discuss access requirements, sloping and shoring requirements, contractor staging areas, work zones, traffic control requirements, probable construction equipment to be used, contractor construction traffic generation, feasibility of Flume replacement pipeline sections to be tunneled or horizontally drilled and portal sites (if applicable), and similar items related to the design, construction, operation, and maintenance of the Flume replacement pipeline.

Identify topographic control points and define requirements and criteria for Flume replacement pipeline drain and fill operations, air valve sizing, and blow-off sizing. Analyze areas where air and

vacuum valves, blow-off valves, and other appurtenant equipment are required based on specific hydraulic conditions (such as high and low points on the Flume replacement pipeline). Define blow-off discharge rates, sizing and necessary improvements including structural best management practices at each discharge location. Prepare a proposed list of specifications (i.e. draft Table of Contents) for inclusion with the drawings.

7.3 Construction Phasing and Timing

The Consultant shall analyze construction phasing and timing of the Flume replacement pipeline integration into the District's system while the existing Flume remains in service. In coordination with District staff, EVWTP staff, and other intertie/connection entities and stakeholders, the Consultant shall identify key factors that may affect the timing of tie-ins and facility connections, such as local water deliveries (and lost revenue potential), Water Authority shutdowns, regional interties to existing District facilities, the Pechstein II Reservoir Project, flow control at the Pechstein Reservoir site as well as general economic impacts and lost productivity caused by construction activities and related traffic impacts (and ways to mitigate them).

In addition, the Consultant shall evaluate headings for open trench sections and tunneling sections and analyze how the segments should be phased in construction to minimize construction duration, costs and economic and community impacts. Based on these factors, the Consultant shall identify the required online and completion dates for key elements of the Flume replacement, which will ultimately lead to prescribing contract milestone dates and establishing a basis for contractor liquidated damages should the dates not be met.

Indicate environmentally sensitive areas and potential mitigation measures as studied under the above tasks including but not limited to seasonal construction moratoriums, buffer zones and monitoring, geology/soils extenuation, existing utility conflict resolution, hazardous materials handling requirements, and hydrology/water quality monitoring and mitigation (see Task 4).

7.4 Construction Costs and Cash Flow Requirements

Based on the preliminary engineering requirements, develop construction costs and cash flow requirements based on anticipated construction phasing of the Flume project. The cost estimates shall be prepared following the Association for the Advancement of Cost Engineering International (AACEI) Recommended Practice No. 18R-97, *Cost Estimate Classification System - As Applied in Engineering, Procurement, and Construction for the Process Industries*, and be a level 3 estimate class (preliminary engineering = 30% maturity level).

7.5 Preliminary Engineering Report (Draft)

Summarize the above work performed during the Preliminary Engineering Phase of this project in a draft “Preliminary Engineering Report” (i.e. PER). Prepare the pertinent text, figures, supporting data and analysis performed to establish the design criteria to be used in Final Design. Submit the TM to the District for review.

7.6 Preliminary Engineering Report (Final)

Receive the District's comments. Prepare and maintain a comment tracking log. Address the District's comments and conduct a comment resolution meeting to confirm and clarify responses. Resubmit for the District's final acceptance.

Deliverables

Submit comment and review log, draft and final preliminary engineering report.

8. FINAL DESIGN

The Consultant will prepare drawings including plan and profile sheets, new hydraulic profiles, Flume project details, design of all tie-in connections, modifications to the EVWTP and Pechstein site, facilities for a Flume backfeed from VID 3, demolition/abandonment-filling requirements and details of the existing Flume, tunneling and jack & bore details, utility relocations, CP design and details, pressure regulating/flow control stations, air valves, blow-offs and other appurtenances. The consultant will provide an overall schematic for layout of pressure zone boundaries including locations for new isolation valves and operating setpoints for each required pressure regulating station for each zone (see section 3.2.5). Also, the Consultant shall reference District standards and provide standard drawings such as cover sheet, index, vicinity map, general notes, survey controls, property lines, right of way limits, etc., and provide Flume project technical specifications and reference interagency standard drawings and their technical specifications and standards where appropriate.

8.1. 60% Design

Advance the drawings to 60% design phase level. Prepare draft technical specifications, not including District's front-end specifications, to accompany the plans. Complete and submit supporting calculations with the plans and specifications.

8.2. 90% Design

Receive the District's comments. Prepare and maintain a comment tracking log. Address the District's comments and conduct a comment resolution meeting to confirm and clarify responses. Advance the design plans, technical specifics, and calculations to 90% design phase level. Receive and review District's Front-end specifications and prepare draft Bid List (i.e., Schedule of Values). Resubmit for the District's review.

8.3. 100% Design (Check Set)

Receive the District's comments. Prepare and maintain a comment tracking log. Address the District's comments and conduct a comment resolution meeting to confirm and clarify responses. Advance the design plans, technical specifics, and calculations to 100% design phase level. Incorporate District's Front-end specifications and prepare draft-final Bid List (i.e., Schedule of Values). Resubmit for the District's review.

8.4. Final Design (Bid Set)

Receive the District's comments. Prepare and maintain a comment tracking log. Address the District's comments and conduct a comment resolution meeting to confirm and clarify responses. Complete the design and prepare the "final-draft" of the contract documents (i.e., Bid Set) inclusive of plans and specifications with District's Front-end and final Bid List (i.e., Schedule of Values). Resubmit for the District's final acceptance. See Task 12.1 for final contract documents.

8.5 Permitting for Construction

Consultant will prepare and submit permit applications to the agencies having jurisdiction. Consultant will also respond to comments, conduct resolution meetings (if needed), and incorporate the changes in the 100% Design (Check Set). Objective is to get preliminary approvals from the agencies having jurisdiction and include the completed permit applications with the Contract Documents so the Contractor can pull the permits upon construction notice-to-proceed. This task includes the ROW permits with City of San Marcos, City of Escondido, and County of San Diego, DDW, Caltrans, Water Authority, and Army Corp. For a basis of cost, this proposal assumes a total of eight (8) permit applications; final permit count will be confirmed during preliminary engineering phase. This scope is inclusive of the effort to prepare the applications and manage the review process but does not include the application fees required by the permitting agency.

To supplement the above scope tasks, and to serve as a basis of cost, a proposed drawing sheet list has been attached to the enclosed fee.

Deliverables

Deliverables shall include draft and final copies of 60%, 90%, 100% drawings (check set) and final (bid set) including comment and review logs. Each deliverable is to consist of a set of plan and profile drawings showing alignment, stations, topography, invert elevations; anticipate plan and profile scales are 1" = 20' horizontal and 1" = 10' vertical, respectively, and technical specifications using the latest version of Construction Specifications Institute's (CSI) Master Number format. Technical specifications shall be provided with each plan submittal for any project element, requirement, product or construction technique called out on the plans. The 90% and 100% deliverables are to identify all fittings and bends shown and annotated on the plan and profile sheets with corresponding survey control information. The Consultant shall be responsible for submitting required documents to all permitting agencies and gaining their permit indicative approvals. In addition to staff comments (including EVWTP staff), the 100% drawings may be subject to minor revision prior to reproduction of a final bid set based on any review comments by permitting agencies including but not limited to U.S. Army Corps of Engineers, Caltrans, Water Authority and DDW.

9. COST ESTIMATES, COST LOADED SCHEDULES, FUNDING AND CASH FLOW REQUIREMENTS

Review the FRAS's financial analysis assumptions and provide input on how the Flume project's costs are tracking based on current market conditions. Make note of any changes to the Flume project's cost including but not limited to changes in the alignment, mitigation and permitting requirements, project conditions, or construction methods.

All designed and specified requirements by the Consultant shall be included in updates to the cost

estimates. Provide documentation to support the basis for costs, permits, exclusions, allowances, contingencies, assumptions, and any other relevant cost items.

The cost estimates shall be prepared following the AACEI Recommended Practice No. 18R-97, *Cost Estimate Classification System - As Applied in Engineering, Procurement, Construction for the Process Industries* and include prescribing estimate class levels based on design submittal percent as follows:

9.1. Validation Phase – no deliverable; only estimating to support alternative analyze

9.2. Preliminary Engineering (30%) Phase – Class 3

9.3. 90% Design Phase – Class 2

9.4. Final Design Phase – Class 1 (Engineer's Estimate for use in Bid Phase) Note: this will be used to populate the bid schedule, provide associated bid item descriptions, and be used to compare contractor bids –upon completion the Consultant will transpose the information onto the District's format.

Based on construction phasing and milestones, prepare cost-loaded schedules to determine funding needs of the District at each required submittal (i.e. 30%, 60%, 90%, etc.). The cost-loaded schedule shall include a detailed breakdown of major construction activities, timing, and phasing so the District can establish and appropriately prepare for cashflow requirements throughout the duration of the Flume project.

Deliverables (only for Subtasks 9.2, 9.3, and 9.4)

Submit draft and final copies of cost estimates in Microsoft Excel and Gantt chart type cost-loaded schedule including comment and review log. The final estimate for construction bidding shall be submitted in a bid item schedule format consistent with other District projects, including descriptions and requirements of all elements included with each bid item, to facilitate easy comparison of construction bids with the Engineer's final estimate.

10. BOARD WORKSHOPS/MEETINGS

The Consultant will lead up to three (3) Board meetings/workshops to present results and recommendations from technical studies and project alternatives development for Board consideration as it relates to CEQA. In addition, the Consultant shall plan for and budget up to ten (10) additional meetings to interface with Board, which may include but not be limited to topics such as updates on project progress, phasing, interagency coordination, challenges or other requests. The general content of each workshop is outlined below:

10.1 Board Workshop/Meeting No. 1 – EIR scoping meeting including but not limited to: identifying potential environmental issues for analysis in an EIR; discussions on the Flume project's scope, description, and setting; examination of alternatives; proposing mitigation measures; discuss CEQA requirements, and provide a process for how the public and stakeholders can

provide comments and feedback to the District.

10.2 Board Workshop/Meeting No. 2 – Public hearing, NOD and certification and adoption of EIR: Conduct a public hearing for the purpose of considering certification and adoption of an EIR and if motioned by the Board, adopt the EIR for the Flume project.

10.3 As-needed CEQA Meeting No. 3 – This meeting will be reserved and employed at the discretion of District staff or the Board in relation to CEQA.

10.4 As-needed Additional Meetings (up to ten (10) 1-hour meetings, excluding meeting preparation) - These meetings will be coordinated with the Board, District staff, and the Consultant, including required content, prior to scheduling.

Deliverables

Submit draft and final copies including comment and review log of the following:

Each workshop/board meeting shall have a detailed Board packet (similar in style used for the FRAS) with sufficient detail (write-up, figures, tables, etc.) to meet the objectives of each workshop/board meeting. The information should describe findings from scope tasks, processes, or any other content necessary to facilitate decision making. In addition, the Consultant shall lead an accompanying PowerPoint presentation to review the Board packet contents in an efficient manner and reach consensus on the findings and recommendations where applicable.

For all related workshops/meetings, including CEQA, prepare and submit and/or post required documents to appropriate entities upon conclusion workshop/board meeting.

Note, workshops may be scheduled months in advance and the timing of draft submittals, District review, and Board packet preparation will become critical. The Consultant shall endeavor to meet all District deadlines and provide clear and concise submittals that require little District correction.

11. PROJECT MANAGEMENT, QUALITY CONTROL, AND MEETINGS

11.1. Project Schedule: Prepare a detailed project schedule outlining all Consultant tasks and required milestones. Submit initial project schedule to District for review and approval prior to commencing the project. Update the project schedule monthly and submit with each month's invoice.

11.2. Project Management: Provide Project Management, Quality Assurance, and Quality Control throughout the course of the Flume project to confirm fulfillment of the Flume project scope and within Flume project schedule and budget. Coordinate between consulting team and District staff. Communicate project progress, cost control, schedule variations, and scope changes to the District in a timely manner. As a basis for cost, PM time assumes a total project duration of 54 months.

11.3. Project Meetings (Bi-weekly): In addition to the specific meetings identified throughout this RFP, plan and prepare for the following meetings, at a minimum; kickoff meeting (assumed one 2-hr meeting), bi-weekly progress meetings (assumed 1-hr per meet for 54-months; 108 meetings total) with the District's project manager, and submittal review meetings. Additional meetings may be required including coordination meetings with District departments, other agencies, jurisdictions, or other stakeholders (e.g., DDW, U.S. Army Corps of Engineers, Caltrans, EVWTP staff, Rincon Water, special districts, school districts, homeowner associations, etc.).

11.4. Quality Assurance and Quality Control (QA/QC): These subtasks are required for the

11.4.1. QA/QC Plan: Prepare and submit a quality assurance and quality control plan (QA/QC plan) for District review and comment. It shall clearly describe processes and procedures as well as define roles and responsibilities of the QA/QC team. The QA/QC plan shall apply to draft and final deliverables, including Board workshops. It shall include a comment review log for non-conformance resolutions and internal signoffs from QC team members verifying that internal technical reviews and District comments are addressed.

11.4.2. Validation Phase: Consultant will perform Quality Assurance (QA) amongst their design team implementing multidisciplinary reviews of the design documents. This QA review will be led by each discipline lead plus the project manager and design manager prior to commencing the independent Quality Control (QC) review. Consultant will perform a QC review with an independent panel of senior specialists led by the QC Manager and Risk Manager. Internal comments will be logged and addressed prior to deliverable submission to the District.

11.4.3. Preliminary Engineering Phase: Same as 11.4.2 above.

11.4.4. 60% Design Phase: Same as 11.4.2 above.

11.4.5. 90% Design Phase: Same as 11.4.2 above.

11.4.6. 100% Design Phase: Same as 11.4.2 above.

11.4.7. Final Design Phase: Same as 11.4.2 above.

Note the District may utilize assistance from an outside consultant for review and input on all submittal materials at various stages of the Flume project. The Consultant shall coordinate District staff and outside consultants to confirm materials are made available to all parties and reviewed in concert with the QA/QC plan. Consultant's fee does not include the reproduction or distribution of deliverable documents to the District's outside consultant. This will be the responsibility of the District. The District will also receive, compile, and review all comments received by its outside consultant. District will consolidated the outside consultants comments with their own by removing those which are repetitive, conflicting, or otherwise erroneous to the District's own comments.

12. BID PHASE SUPPORT SERVICES/ADDENDA/CONFORMED SET

Consultant will provide the bid phase support services required to release the project to bid, support the District on the Pre-Bid meeting, response to contractor questions, and produce the final

conformed set of contract documents. This task will be organized as follows:

12.1. Prepare Final Bid Documents: For bidding, the Consultant is to provide electronic copies of the final Flume project documents (bid documents, specifications, and appendices) and scaled final drawings in PDF format. The full- scale drawing when printed 100% must be true to scale as per the design scale noted on each sheet. Also, the consultant shall provide half-scale drawings in PDF format that when printed fit on 11x17 paper at exactly ½ scale designated on each sheet.

12.2. Pre-Bid Meeting and Job Walk: The District will conduct the public construction bid and advertisement, distribute the Flume project documents to bidders, maintain plan holders list, and issue addenda and Requests for Information/Clarifications (RFIs/RFCs) during the bid period and all correspondence with bidders will be made by the District. The Consultant shall conduct a pre-bid meeting and job walk.

12.3. RFI Responses & Addendum Issuance: Consultant will prepare addenda, respond to RFIs, etc. Addenda may be required, so the Consultant should account for correcting any discovered omissions or errors in the bid set and drawings and/or as a result from bidders' questions and comments.

12.4. Final Conformed Set: For construction, the Consultant shall provide twenty (20) printed copies for up to two (2) conformed bid packages. If the project is split, Flume demolition must be included in one of these packages. Each bid package must include full-size (22"x34") drawings, half-scale (11"x17") drawings, front-ends (bidding requirements, general and special provisions), technical specifications, and reference materials. The Consultant shall also update and deliver all electronic files to the District. The District will furnish standard front-ends and some recent examples.

13. ENGINEERING SERVICES DURING CONSTRUCTION – TBD

Design related services during construction (e.g., RFI/RFC/submittal reviews, progress meetings, etc.) are not included in this scope of work but may be added based on a mutually agreed upon scope and fee as determined necessary during the design phase of the project. Similarly, public outreach services (see optional Task 14.1 below) during construction may also be added at a mutually agreed upon scope and fee.

14. ADDITIONAL SERVICES (OPTIONAL)

The scope of services proposed under this task are optional services proposed by the Consultant to further enhance the level of service, improve quality, and further mitigate risks on the project. Retaining any of the optional services presented herein would be at the District's discretion.

14.1. Public Outreach [add as an independent task] – **invoke with original contract or prior to CEQA noticing** (recommend including with original award)

Prepare a strategic communications and engagement plan for District review and acceptance. Then perform public outreach efforts during the CEQA process and design development in accordance with the strategic plan. Services will include community outreach, interagency coordination, as well as permit & CEQA outreach as detailed below.

14.1.1. Coordination & Meetings

A. Assumption – (1-hr) monthly coordination with client plus (1-hr) weekly with project team.

14.1.2. Strategic Communications and Engagement Plan

A. Map project stakeholders based on roles, interests, and influence to develop a risk-based strategic engagement plan.

B. Develop project brand and core messaging that reflect the project purpose, benefits, and partnerships across jurisdictions (e.g., cities, County, Caltrans, regional partners).

C. Establish communication goals and guiding principles to support consistent messaging across project partners (District, contractors, agencies having jurisdiction, and public stakeholders) throughout project phases, including design and early construction preparation.

D. Identify neighborhood groups, community associations, school district meetings, business districts, and other opportunities to engage impacted stakeholders.

E. Coordinate with municipalities and partner agencies to identify existing and established channels of communication to engage stakeholders. (e.g., newsletters, website, social media, direct mailers, and Council meetings).

F. Develop media relations strategy and toolkit.

i. Deliverable: Strategic Communications and Engagement Plan (slide deck), Brand and Messaging Guide, Media Toolkit

14.1.3. Community Outreach

A. Conduct early outreach with key stakeholders and sensitive receptors (identified in preliminary environmental assessment) through interviews or small-group discussions to understand priorities and concerns to integrate into CEQA analysis and traffic control plans.

B. Identify core community-specific issues such as access, traffic, noise, business continuity, school impacts, or neighborhood sensitivities.

C. Outline high-level strategies to mitigate impacts during design and early construction planning.

D. Develop communication and outreach materials (FAQs, handouts, press release, advertisements, and social media) to support community engagement.

i. Deliverable: Community Outreach strategy, input matrix, and outreach materials (as defined in the Strategic Communications and Engagement Plan)

ii. Assumes six (6) 1-hour stakeholder interviews (prep and travel), Two (2) Consultant participants

iii. Assumes 100 hours for materials development

14.1.4. Interagency Coordination

A. Map core decision points that require input across partner agencies.

B. Identify key staff members to advise on operational decision points and management-level leadership needed to make key decisions and resolve cross-agency issues.

C. Brief Council-level leadership at strategic decision points to obtain direction on policy, funding, large-scale system changes, and to resolve barriers.

D. Establish a structured decision-making workflow that outlines when and how each leadership level is engaged, what information they receive, and how decisions are communicated back across all partners.

i. Deliverable: Interagency Engagement Strategy and Roadmap

ii. Assumptions: two (2) presentations to City of Escondido City Council, two (2) presentations to the City of San Marcos, four (4) Board updates, quarterly engagement with key stakeholder management, and one (1) hour monthly with partner agency communication team.

14.1.5. Permit & CEQA Outreach Support

A. Develop an engagement approach and facilitate early coordination with Caltrans, municipalities, County agencies, utilities, and regulatory partners to understand permitting requirements and CEQA-related agency expectations.

B. Support coordination of information, technical assumptions, and responses associated with early permit discussions and CEQA scoping activities to confirm clarity, accuracy, and consistency.

C. Identify key permitting and CEQA-related themes, risks, and constraints that may influence project sequencing, schedule, mitigation strategies, or construction timing.

D. Prepare public-facing and agency-facing outreach materials to support CEQA communications, including notices, summaries, scoping meeting materials, presentations, web updates, press releases, and advertisements.

E. Develop visual and narrative content to help agencies and community stakeholders understand project purpose, background, environmental process, and long-term vision, while ensuring alignment with broader project messaging and partner agency communications.

i. Deliverable: Permit and CEQA Coordination Strategy & Roadmap, Outreach Materials, and Messaging Framework

14.2. Funding Support (As-needed T&M) [add as an independent task] – **invoke prior to**

Preliminary Design

Support District's efforts, as-needed on a time-and-materials (T&M) basis, in pursuing grant funding, low interest loans and municipal bonds by providing timely cost data and technical information required by funding agencies. Assumed a total T&M budget up to $200,000.

14.3. Radio Path Field Survey [add after Task 1.1.3] – **invoke prior to Preliminary Design**

If a Remote Telemetry Unit (RTU) back-up communications system is desired by the District for this project the Consultant will rely on surveys previously performed by the District. If none are available, or if data is sufficient for design, the Consultant will subcontract with a specialist to perform a radio path field survey up to the value of this allowance. This work would be conducted at the 60% Design phase.

14.4. Supplemental Potholes (up to 200 total) & Onsite Field Support [add to task 1.2.2] – **invoke prior to Preliminary Design** **(recommend including with original award)**

Includes additional potholes as needed during design to locate smaller utilities and services, as well increase the frequency of checking for separation with parallel adjacent utilities along the alignment. In addition, this task will include one (1) staff engineer to be present on-site witnessing pothole operations and documenting the work.

14.5. Rincon Water and City of Escondido (backfeed) Service Connection Hydraulic Analyses and Designs *[add as an independent task]* – ***invoke prior to 60% Design***

Complete the planning, coordination, additional hydraulic analyses, design, specifications, and cost estimates associated with the future service connections feeding Rincon Water and City of Escondido (backfeed from VID 3). This work may be performed if Rincon Water and/or Escondido wish to partner with the District and enter into a reimbursement agreement to use this contract as a vehicle for performing these designs.

14.6. Relinquishing Unused Easements [add after Task 1.4.2] – **invoke prior to Preliminary Design** **(recommend including with original award)**

Easement Document Review and Mapping: Consultant will review all available FRAS easement documents and map existing easements associated with the validated alignment. The mapping effort will compile available legal descriptions, or those prepared by the surveying subconsultant, and identify potential gaps, inconsistencies, or areas where easement documentation may be incomplete or unclear.

Easement Characterization and Constraints Assessment: Consultant will evaluate each easement to characterize its type (e.g., specific-purpose, blanket, exclusive, or non-exclusive), identify current and permitted uses, and summarize key limitations or restrictions affecting future use of the corridor.

Future Use Alternatives Evaluation: Consultant will evaluate potential future uses of the easement corridor and present alternatives to the District, including identification of key considerations, constraints, and potential implementation steps associated with each option. Potential future uses may include:

- future pipeline or utility corridors
- maintenance or access roads
- joint-use corridors
- public recreational uses such as hiking or mountain biking trails
- partial or full relinquishment of easement rights where appropriate

For each alternative, Consultant will identify general implementation considerations such as coordination with underlying property owners, potential amendments or transfers of easement rights, and other procedural steps that may be required.

14.7. Supplemental Topographic Survey & Mapping [add after Task 2.3] – **invoke prior to Preliminary Design**

Additional survey and mapping work to be used during preliminary engineering if the alignment changes during validation. This would be required if alignment corridor deviates more then 50-feet away the recommended FRAS alignment (i.e., FRAS Alignments 1.1.1, 2.1.1, plus Cassou Road). As a contingency, Consultant estimates up to 268 hours of drafting, field surveying, and management time.

14.8. Geotechnical Baseline Report [add after Task 3.4] – **invoke prior to 60% Design (recommend including with original award)**

The Consultant will prepare and submit a signed and sealed Geotechnical Baseline Report (GBR). The GBR will address the shafts and the trenchless drives. Consultant will submit a draft GBR to the District for review at the 90% and 100% Design milestones.

The GBR shall present ground conditions by depth and location with specifics for each geologic strata through which trenchless shafts and the trenchless drives will be constructed. The baselines shall include occurrences of ground conditions which were not encountered in the explorations but are known to be present in the area and may impact shafts and trenchless construction means, methods, and production. The report shall be signed and sealed by a Professional Engineer and Professional Geologist registered in the State of California with expertise in geotechnical engineering, trenchless work, and preparation of GBRs.

14.9. Supplemental Environmental Support [add to Task 4.4] – **invoke prior to Preliminary Design**

The presence of habitat supporting regulated plant and wildlife species may require focused surveys for various species to confirm presence or absence and determine whether additional permits or agency approvals are needed for the project. The scope of Consultant's support for this task will vary depending on the species and nature of the project's impacts, so this task has been identified as an optional task for planning purposes, and will need to be revisited once additional details are determined during the design and CEQA review phases.

14.9.1. Species Survey

A. Protocol Rare Plant Surveys

Consultant will conduct focused surveys for special status plant species with a potential to occur within the study area. Focused special-status plant surveys will conform to California Native Plant Society (CNPS) Botanical Survey Guidelines (CNPS 2001); Protocols for Surveying and Evaluating Impacts to Special Status Native Populations and Natural Communities; and USFWSs General Rare Plant Survey Guidelines. For purposes of preparing a cost estimate, Consultant assumes that suitable habitat for special-status plant species can be surveyed in two passes (April/May and June/July), which will capture the bloom period for the majority of the special-status plants that have potential to occur on site. In accordance with CNPS and CDFW protocols, only 40 acres may be surveyed per biologist per day. Consultant's scope assumes survey passes will be performed for 10 person-days per pass (20 person days total). This task also includes a one-day visit per pass at a reference population site to review the blooming status of target species.

The methods and results of these surveys will be included in the biological resources technical report (Task 4.2), with no standalone reporting required.

B. California Gnatcatcher Surveys

Consultant will conduct protocol-level surveys for the coastal California gnatcatcher (Polioptila californica californica), a federally threatened species, in areas supporting suitable habitat within the project area and adjacent areas. The presence/absence protocol-level surveys will be conducted during the breeding season for this bird species according to USFWS survey protocols.

Consultant biologists holding section 10(a)(1)(A) federal permits to conduct gnatcatcher surveys will perform these surveys according to the guidelines adopted by the USFWS. The USFWS guidelines specify that for areas under Natural Community Conservation Planning jurisdiction, each area potentially supporting gnatcatchers (based on suitable habitat and species range) be surveyed a minimum of three times at a minimum interval of seven (7) days, between February 15 and August 30, to obtain adequate presence/absence data.

In accordance with permit requirements, Consultant will prepare and submit a 10-day pre-survey notification letter and a 45-day post-survey report to the USFWS. This task includes a letter report disclosing the methods and results of the survey in accordance with the USFWS requirements. For the purposes of determining cost, it is assumed that there are 580 acres of potentially suitable habitat that would require surveying and that 3 survey passes and 100 acres per day will be acceptable by the USFWS. This would result in six person day per survey pass for a total of 18 person days.

C. Burrowing Owls Surveys

Consultant will conduct burrowing owl surveys in accordance with the Staff Report on Burrowing Owl Mitigation, prepared by CDFW and dated March 7, 2012. In accordance with the Staff Report, protocol surveys for burrowing owl consist of site visits on four separate days conducted during the breeding season. According to the Staff Report, at least one survey must be conducted between February 15 and April 15 and a minimum

of three survey visits conducted at least three weeks apart must be conducted between April 15 and July 15, with at least one visit after June 15.

We assume that 240 acres of habitat will require surveying. We assume that approximately 150 acres will need to be surveyed during the first pass. We assume that no more than 40 acres (approximately 25% of the survey area) will contain suitable burrows (e.g., burrow resources with openings 4 inches or greater in diameter) that will require burrow checks during survey passes 2 through 4. Based on the assumptions listed above, the survey effort will require approximately 3 person days for the first pass and approximately 1 person day for each following survey, for a total of 7 person days.

The results will be detailed in a report prepared for submittal to CDFW.

D. Least Bell's Vireo Surveys

Consultant will conduct protocol surveys determining presence/absence for least Bell's vireo following official USFWS-approved survey protocol in suitable riparian habitat along the alignment. Consultant will conduct focused surveys for the species in riparian habitat within the study area. For the least Bell's vireo, a recovery permit pursuant to Section 10(a)(1)(A) is not required to conduct presence/absence surveys, provided that the January 19, 2001, survey protocol is followed and vocalization tapes are not used. A total of eight site visits to areas of suitable habitat will be conducted with 10-day intervals between each visit. Consultant will conduct surveys between April 10 and July 31, between dawn and 11:00 a.m., by a qualified biologist familiar with least Bell's vireo songs, calls, and plumage. Each survey can be completed in 1 person-day per pass. Based on the combined survey efforts, a total of eight survey passes are required.

The results will be detailed in a report prepared for submittal to USFWS.

E. Crotch's Bumble Bee Surveys

Consultant will perform a habitat assessment consistent with guidance provided in the California Department of Fish and Wildlife's Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species to document potential habitat including potential foraging, nesting, and/or overwintering resources. The habitat assessment will quantify which plant species are in bloom and what their percent cover is. General plant diversity will also be assessed and documented. CDFW has recently begun considering all habitat in the region that is not developed to be suitable. Based on discussions with CDFW staff, surveys can focus on representative areas where suitable habitat is identified, so we will assume that 20% of the study area habitat will be surveyed with a special emphasis on where floral resources are present. Surveys will follow guidance provided in the CDFW (June 2023) Survey Considerations for CESA Candidate Bumble Bee Species. Three survey passes will be conducted during the Colony Active Period, April to August. Each survey pass will be spaced two to four weeks apart. Survey rate is 3 acres per hour per biologist.

If Crotch's bumble bees are encountered, field personnel will record data points including the location the species was identified, the foraging resource it was found on (if applicable), and whether the individual(s) are queens, workers, or males. The results of the Crotch's bumble bee surveys, including locations of Crotch's bumble bee observations, will be provided in a brief memorandum.

Consultant biologists hold a valid Memorandum of Understanding (MOU) and Scientific Collecting Permit (SCP) to survey for Crotch's bumble bee. At least 14 days prior to the first survey, the biologist will submit a Notification of Field Activities to the required CDFW staff in accordance with the SCP conditions. If photograph-only surveys will be conducted, a survey plan will be submitted to CDFW prior to surveys.

Consultant assumes approximately 500 acres of potentially suitable habitat, with 20% coverage required in the surveys, and three survey passes, resulting in an estimate of approximately 12 person days to perform the survey.

The results will be detailed in a report prepared for submittal to CDFW.

14.9.2. Permitting Support

Consultant anticipates the project may need permits for impacts on jurisdictional waters features, plants or wildlife regulated under the respective state and federal endangered species acts, and impacts on historic resources. The scope of Consultant's support will vary depending on the nature and complexity of the project's permitting needs, so this task has been identified as an optional task for planning purposes, and will need to be revisited once additional details of the project and the extent of affected resources are determined during the design and CEQA review phases.

A. Federal and State Waters Permitting

If waters features under the jurisdiction of the United States and State of California are affected by the project, Consultant will support the project's permitting process with the Army Corps, Regional Water Quality Control Board (RWQCB), and CDFW. Consultant will submit a formal request letter to the agencies to host a pre-filing meeting. At this meeting, Consultant will lead a review of the extent of aquatic resources on the project site; provide details of proposed impacts and compensatory mitigation (if required); and field any resource agency questions or requests for avoidance, minimization, or additional mitigation measures. This task covers up to two follow-up meetings and one site visit with resource agency staff to confirm delineation data and expected permit application approach.

Consultant will update preliminary, informal delineation data collected during the biological resources assessment and conduct a formal delineation of the affected waters (assumed as up to three streams or channels). Consultant will prepare an aquatic resources delineation report (ARDR) for communication to the resource agencies regarding the limits of their jurisdiction, meeting Army Corps minimum standards and including separate descriptions of each agency's aquatic resources as well as figures depicting the extent of each agency's jurisdiction. Consultant will submit the ARDR to the Army Corps and incorporated into the permitting process.

Consultant will prepare permit applications and provide assistance with permit negotiation agency coordination to obtain permits for impacts on affected waters. This is assumed as a single application for each agency covering up to three locations. Applications will include an Army Corps Clean Water Act Section 404 Nationwide Permit (NWP), a Clean Water Act Section 401 Water Quality Certification from the RWQCB , and Section 1602 Streambed Alteration Agreement from CDFW.

Consultant will submit the ARDR and request for Preliminary Jurisdictional Delineation (PJD) forms to the Army Corps. Completion of PJD request forms will require compilation of information regarding historical and current hydrologic conditions on the site and potential connections with downstream waters (e.g., are storm flows on site conveyed to the storm drain system and do they contribute to downstream river flows). Consultant assumes that this information will be provided by the District and design team for Consultant staff review. This scope of work includes coordination time with the Army Corps review and confirm the findings of the ARDR and to draft PJD forms to receive final PJD verification from the Army Corps.

Consultant will prepare a Pre-Construction Notification (PCN) to the Army Corps for the selected NWP, including a cover letter and supporting figures and photo documentation, as appropriate. Consultant will complete and submit a formal application for a Section 401 Water Quality Certification to the RWQCB. Consultant will complete and submit a notification for a Section 1602 Streambed Alteration Agreement to CDFW. This task assumes the required CDFW permit filling fee will be paid by the District.

Following permit application submittal, Consultant will support the project's agency consultation needs, coordinate with the resource agencies, and providing additional information requested during the application review timeframe.

B. Federal and State Species Permitting

If the project results in impacts on plant or wildlife species, Consultant will coordinate and support acquisition of a Section 2081 Incidental Take Permit (ITP) from CDFW and/or a Section 7 Consultation with the USFWS.

For the Section 7 process, Consultant will prepare a draft Biological Assessment (BA) covering up to two federally listed species, that may be potentially affected by issuance of a 404 Permit, a federal action. The BA will include the following: a brief summary of the proposed federal action being considered, including the purpose of the BA and a history of any consultation to date; a description of the proposed federal action; a description of the action area, including the biological resources present in the action area; an account of the listed species (no more than three) that may be potentially affected by the federal action; the direct, indirect, and cumulative effects of the proposed project; the determination of effects on federally listed species; the preparers of the document and agency individuals contacted for input into this document; and the references cited in preparation of this document. Consultant will provide agency coordination support during their review of the BA and issuance of a biological opinion for the project.

Consultant will prepare an CDFW Section 2081 incidental take permit application for the project. Consultant will provide agency coordination support during their review of the BA and issuance of a biological opinion for the project.

C. NHPA Section 106 Finding of Effect

If research into the history of the existing flume indicates that the facility is eligible for listing in a local register, the CRHR, and the NRHP, Dudeck qualified staff will prepare a Section 106 Finding of Effect (FOE) in accordance with 36 CFR § 800.5. Additionally, Consultant will photo document the Vista Flume system in a Historic American

Engineering Record (HAER)-like, short-format report. Unlike traditional HAER reports, however, the proposed recordation and documentation will not be submitted to the National Park Service for review, nor will it be transmitted to the Library of Congress to be archived. Instead, copies of the recordation will be distributed to interested local municipalities and historical societies. An electronic version of the recordation could also be made available for online publication.

14.9.3. Downstream Connection Engineering Review

Consultant engineers leading the design of the District's Pechstein II Reservoir Planning and Design Project will provided as-needed support to the project design team related to the project's downstream connection to the Pechstein site, up to a maximum fee of $21,822.

As-needed support under this task will be based on requests from the District and project design team, and may include such services as meeting attendance, exchange of design files, existing utilities and potholing results; design review and feedback regarding the Pechstein Site connection during various phases of project design; and quality-control reviews that provide input on design and constructability of the project's proposed improvements with the Pechstein Site.

14.10. Erosion Control and Site Restoration Plans [add across Task 8] – **invoke prior to 60% Design** (recommend including with original award)

If required by agencies having jurisdiction, this task to intended to support the development of erosion control and/or restoration drawings and specifications as-needed to satisfy permit requirements.

14.11. Americans with Disabilities Act (ADA) Improvement Plans [add across Task 8] – **invoke prior to 60% Design**

If required by agencies having jurisdiction, this task to intended to support the development of ADA ramp improvement drawings and specifications as-needed to satisfy permit requirements.

14.12. Temporary Traffic Control Drawings (90%, 100%, and FINAL) [add across Task 8] – **invoke prior to 60% Design**

In the Consultant's base-scope, traffic control plans (TCPs) will be prepared to a 60% design level for pre-approval by the agencies having jurisdiction. This task is intended to advance those drawings to 90%, 100%, and Final design levels as needed to satisfy additional requirements by said agencies.

Plans will be developed at a scale of 1" = 40' in accordance with applicable agency standards, including the Work Area Traffic Control Handbook (WATCH) Manual and the California Manual on Uniform Traffic Control Devices (CA MUTCD), as well as jurisdictional design guidelines.

Following each submittal, subconsultant will review and address the agency having jurisdiction's comments. Final plans will incorporate the traffic control measures necessary to support construction of the proposed improvements.

Traffic control staging assumptions are as follows:

- Construction production assuming approximately 100 to 200 linear feet per day.
- Each stage is based on weekly work zones of approximately 500 to 1,000 feet, generally extending between signalized intersections.
- Signalized intersections are assumed to be trenched, requiring multiple construction stages within the intersection limits to maintain traffic operations and accommodate construction activities
- It is anticipated that the following number of stages will be reviewed by each agency, respectively:
  - Escondido - 105 stages
  - San Marcos - 61 stages
  - Caltrans– 9 stages
  - County of San Diego– 7 stages
  - Note some stages overlap jurisdictions

Based on these assumptions, subconsultant anticipates preparing up to one hundred eighty (180) stages of detailed, permit-ready TCPs.

14.13. Geotechnical – Soil Contamination [add as standalone task] – **invoke after Geotechnical field investigations are completed**

As a contingency, a fee of $50,000 is reserved under this task in the event contaminated soils are discovered during the geotechnical investigation drilling and localized hazardous material disposal is required. This fee is intended to support supplemental environmental investigations to define the extents of contamination to inform the design and for use in the contract documents

14.14. Geotechnical – Additional Investigations for Design [add to Task 3.1.2] **– invoke prior to 60% Design**

As a contingency for design, this fee includes up to eight (8) additional 40-foot borings to enhance pit and tunnel designs. It also includes three (3) additional days of seismic line surveying.

14.15. Geotechnical – Flume Demolition & Restoration [add to Task 3.1.2] **– invoke prior to 60% Design**

As a contingency for design, this fee includes additional geotechnical engineering to support the demolition and restoration design associated with removing the existing flume and stabilizing the associated disturbed soils.

14.16. Final Site Walk and Survey Reconciliation [add to Task 8.3] – **invoke prior to 90% Design**

During 100% Design, the Consultant will walk the site looking for noticeable changes (e.g., new or missing above grade features). Then the Consultant will mark-up its design drawings, deploy its survey to the field (assumed 5 working days for survey field crew), and conduct additional data collection. The Consultant's design drawings will be updated with the updated survey basemap and the design update to address any conflicts found for inclusion in the 100% Design (Check-set) submittal to the District.

14.17. Flume Demolition Bid Package [add to Task 8] – **invoke prior to 60% Design** (recommend including with original award)

The Consultant will prepare a separate stand-alone package for the existing Flume's demolition design. This package will include a stand-alone bid ready set of plans, specifications, and engineer's estimate with accompanying calculations. The engineering effort associated with this design is already included in the base scope of services and associated fee. This task, if invoked, will create the contract documents needed by the District to procure the Flume's demolition separately from the new replacement pipeline's installation.

14.18. Design Water Authority VID 3 Replacement [add to Task 8] – **invoke prior to 60% Design**

The District and the Water Authority are discussing the possibility of replacing VID 3 treated water connection in the future. It is probable that if a mutual agreement is reached to move the project forward, using this contract as a mechanism to complete the design would allow for cost and time efficiencies. In the event the District and the Water Authority agree this is the best approach, this task would be invoked to prepare the design and associated contract documents. The scope and fee for this optional task is to be determined at a later date, pending further coordination between the District and the Water Authority.

14.19. Real Property Acquisition [add to Task 8] – **invoke prior to 60% Design**

The District may require the services of a real property agent for the property acquisition process, if needed to implement the final validated alignment. However, because those properties have not been clearly defined or vetted, this optional service task is provided as a placeholder where the level of effort is to be determined at a later date.

Assumptions and Limitations:

i. Rates & fees have been escalated to mid-point of the project; no further escalation will be required/requested during design assuming the schedule is maintained.

ii. Unless stated otherwise, all deliverables shall have no less than five hard copies and one digital copy submitted to the District. Digital submittals shall include InfoWater model, AutoCAD, MS Word, MS Excel, PowerPoint and Adobe PDF. For Board meetings/workshops, ten (10) hard copies shall be provided. All deliverables require a draft submittal for District review and comment prior to accepting a final version.

iii. Consultant will use the District's CAD standards as a starting point and will supplement using

consultant's own CAD standards as needed.

iv. Board workshops will be attended in person. Milestone meetings with District staff will be attended in person. Regular bi-weekly meetings will be held virtually.

v. Any permit application fees with agencies having jurisdiction will be paid for by the District.

vi. Cost estimates and feasibility projections are subject to many influences including, but not limited to, price of labor and materials, unknown or latent conditions of existing equipment or structures, and time or quality of performance by third parties. Such influences may not be precisely forecasted and are beyond the control of Consultant; actual costs incurred may vary substantially from the estimates prepared by Consultant. Consultant does not warrant or guarantee the accuracy of construction or development cost estimates.

vii. Base scope and fee include dividing the project to up to two bid packages.

viii. Base fee includes Validation and Preliminary Engineering analysis for FRAS Alignments 1.1.1, 2.1.1, plus Cassou Road. Final design effort including a deviation from this alignment by more than 0.5-miles will require invoking optional services for scope needed to fill data gaps to meet standard of care in support of the final design.

ix. Scope assumes one consolidated review cycle and one comment-resolution meeting per deliverable, unless further cycles/reviews are deemed necessary by the District due to comments being inadequately addressed by the Consultant.

VISTA IRRIGATION DISTRICT
Vista Flume Replacement Pipeline Project

	Task Description	BROWN & CALDWELL	Air-X Potholing	Black & Veatch San Marcos Pipeline/Tunnels & Corrosion	Delve Escondido Tunnels & Geotechnical	Dudek CEQA & Pechstein Coordination	Hoch Service Connections & Flume Demo	SDE Topographic Surveying	STC Traffic Control & Striping	West Coast Civil Erosion & Permitting	SUBCONSULTANT Mark-Up	SUBCONSULTANT TOTAL	PROJECT TOTAL
1	FIELD RECON., DATA COLL., UTIL. RESEARCH, & ROW	$ 308,736	$ 1,198,340	$ 173,580			$ 329,958		$ 22,791		$ 51,740	$ 1,776,409	$ 2,085,145
	1.1 Data Collection												
	1.1.1 Validation Phase Research	$ 65,185		$ 19,317			$ 84,617		$ 11,396		$ 3,460	$ 118,789	$ 183,974
	1.1.2 Prelim. Engineering Phase Research	$ 86,859		$ 32,957			$ 102,147		$ 11,396		$ 4,395	$ 150,894	$ 237,753
	1.1.3 Design Phase Research	$ 38,436		$ 19,317			$ 40,194				$ 1,785	$ 61,296	$ 99,732
	1.2 Potholing												
	1.2.1 Validation Ph. Potholing (75 max.)	$ 22,019	$ 461,005	$ 38,246							$ 14,978	$ 514,229	$ 536,248
	1.2.2 Design Ph. Potholing (125 max.)	$ 58,320	$ 737,335	$ 63,744							$ 24,032	$ 825,111	$ 883,431
	1.3 Utility Mapping	$ 26,396					$ 103,000				$ 3,090	$ 106,090	$ 132,486
	1.4 Easement and ROW Mapping												
	1.4.1 ROW Analysis and Mapping	$ 1,692											$ 1,692
	1.4.2 Property Needs Assessment	$ 4,910											$ 4,910
	1.4.3 Permitting Needs Assessment	$ 4,919											$ 4,919
2	TOPOGRAPHIC AND LAND SURVEY	$ 63,722						$ 642,052			$ 19,262	$ 661,314	$ 725,035
	2.1 Validation Phase	$ 11,149						$ 311,944			$ 9,358	$ 321,302	$ 332,451
	2.2 Preliminary Engineering Phase (30%)	$ 7,189						$ 144,655			$ 4,340	$ 148,995	$ 156,184
	2.3 Final Design Phase (60%)	$ 8,866						$ 149,457			$ 4,484	$ 153,941	$ 162,806
	2.4 Easement Plats & Legals (20 max)	$ 36,518						$ 35,996			$ 1,080	$ 37,076	$ 73,594
3	GEOTECHNICAL AND GEOPHYSICAL INVESTIGATIONS	$ 48,687		$ 81,790	$ 630,787						$ 21,377	$ 733,954	$ 782,641
	3.1 Geotechnical Investigations												
	3.1.1 Validation Phase Investigations	$ 12,656			$ 478,743						$ 14,362	$ 493,105	$ 505,762
	3.1.2 Design Phase Investigations	$ 24,452											$ 24,452
	3.2 Geotechnical Investigation Rpt (Draft & Final)	$ 6,461		$ 14,395	$ 152,044						$ 4,993	$ 171,432	$ 177,893
	3.3 Cathodic Protection Field Testing	$ 5,117		$ 67,395							$ 2,022	$ 69,417	$ 74,534
4	ENVIRONMENTAL COORDINATION AND PERMITTING	$ 48,156		$ 67,215		$ 934,447			$ 5,767		$ 30,223	$ 1,037,652	$ 1,085,808
	4.1 Proj. Initiation, Scheduling, and Data Needs	$ 5,023				$ 7,230					$ 217	$ 7,447	$ 12,469
	4.2 Alignment Validation Support	$ 10,234		$ 21,840		$ 60,086					$ 2,458	$ 84,384	$ 94,618
	4.3 Project Descr./CEQA Scoping/NOP/AB 52	$ 6,514				$ 48,963					$ 1,469	$ 50,432	$ 56,945
	4.4 Environmental Technical Studies	$ 5,589				$ 252,595					$ 7,578	$ 260,173	$ 265,762
	4.5 Draft EIR	$ 9,785		$ 19,270		$ 251,457			$ 5,767		$ 8,295	$ 284,789	$ 294,574
	4.6 Final EIR/MMRP/Findings	$ 7,087		$ 9,635		$ 66,841					$ 2,294	$ 78,770	$ 85,858
	4.7 NEPA Support/Section 106 Tribal Consult.	$ 1,690		$ 16,470		$ 52,097					$ 2,057	$ 70,624	$ 72,314
	4.8 PDT Meetings	$ 2,236				$ 120,689					$ 3,621	$ 124,310	$ 126,545
	4.9 Project Management					$ 74,489					$ 2,235	$ 76,724	$ 76,724
5	SYS. HYDR. ANALYSIS AND FLOW CTRL REQ.	$ 135,189		$ 43,930							$ 1,318	$ 45,248	$ 180,437
	5.1 Validation Phase Hydraulics	$ 22,051		$ 14,210							$ 426	$ 14,636	$ 36,687
	5.2 Preliminary Engineering Phase Hydraulics	$ 73,643		$ 14,210							$ 426	$ 14,636	$ 88,279
	5.3 Final Design Phase Hydraulics	$ 39,495		$ 15,510							$ 465	$ 15,975	$ 55,471
6	ALIGNMENT VALIDATION	$ 416,752		$ 190,650	$ 56,337		$ 298,086		$ 43,601	$ 127,482	$ 21,485	$ 737,641	$ 1,154,393
	6.1 Alignment Analysis	$ 170,696		$ 104,820	$ 29,859		$ 95,354		$ 43,601	$ 127,482	$ 12,033	$ 413,149	$ 583,845
	6.2 Connections Analy. (EVWTP, Pechstein, Boot, etc.)	$ 51,293		$ 51,820			$ 88,462				$ 4,208	$ 144,490	$ 195,783
	6.3 Ancillary Facilities Analysis (Flume Demo, CP, etc.)	$ 29,656		$ 7,960			$ 114,270				$ 3,667	$ 125,897	$ 155,553
	6.4 Technical Memorandum (Draft)	$ 119,404		$ 13,025	$ 20,950						$ 1,019	$ 34,994	$ 154,398
	6.5 Technical Memorandum (Final)	$ 45,704		$ 13,025	$ 5,528						$ 557	$ 19,110	$ 64,813
7	PRELIMINARY ENGINEERING	$ 540,765		$ 768,945	$ 229,088		$ 126,090		$ 175,408	$ 23,587	$ 39,694	$ 1,362,812	$ 1,903,577
	7.1 Design Criteria	$ 42,517		$ 66,640	$ 31,398		$ 49,883			$ 2,458	$ 4,511	$ 154,890	$ 197,407
	7.2 Preliminary Engineering Plans (30% Design)	$ 318,150		$ 612,470	$ 131,230		$ 56,666		$ 131,108	$ 19,261	$ 28,522	$ 979,257	$ 1,297,407
	7.3 Construction Phasing and Timing	$ 28,483											$ 28,483
	7.4 Construction Costs and Cash Flow Req.	$ 22,170											$ 22,170
	7.5 Preliminary Engineering Report (Draft)	$ 96,285		$ 59,890	$ 33,230		$ 13,027		$ 29,533	$ 1,318	$ 4,110	$ 141,109	$ 237,394
	7.6 Preliminary Engineering Report (Final)	$ 33,161		$ 29,945	$ 33,230		$ 6,514		$ 14,767	$ 550	$ 2,550	$ 87,555	$ 120,716
8	FINAL ENGINEERING	$ 1,678,609		$ 1,632,285	$ 332,938		$ 533,459		$ 136,743	$ 95,059	$ 81,915	$ 2,812,399	$ 4,491,008
	8.1 60% Design	$ 798,681		$ 831,010	$ 141,956		$ 258,428		$ 136,743	$ 43,229	$ 42,341	$ 1,453,707	$ 2,252,388
	8.2 90% Design	$ 339,668		$ 459,585	$ 76,015		$ 175,963			$ 25,000	$ 22,097	$ 758,660	$ 1,098,328
	8.3 100% Design (Check Set)	$ 229,317		$ 196,380	$ 64,130		$ 79,735			$ 12,538	$ 10,583	$ 363,367	$ 592,684
	8.4 Final Design (Bid Set)	$ 187,425		$ 145,310	$ 50,836		$ 19,333			$ 6,783	$ 6,668	$ 228,930	$ 416,355
	8.5 Permitting for Construction	$ 123,518								$ 7,509	$ 225	$ 7,734	$ 131,253
9	COST ESTIMATES, COST LOADED SCH., FUNDING & CASH FLOW REQ.	$ 206,694		$ 133,190	$ 26,779		$ 66,158			$ 3,423	$ 6,887	$ 236,437	$ 443,130
	9.1 Validation Phase	$ 15,449											$ 15,449
	9.2 Preliminary Engineering Phase	$ 73,142		$ 47,455	$ 14,979		$ 34,493			$ 1,567	$ 2,955	$ 101,449	$ 174,591

VISTA IRRIGATION DISTRICT
Vista Flume Replacement Pipeline Project

	Task Description	BROWN & CALDWELL	Air-X Potholing	Black & Veatch San Marcos Pipeline/Tunnels & Corrosion	Delve Escondido Tunnels & Geotechnical	Dudek CEQA & Pechstein Coordination	Hoch Service Connections & Flume Demo	SDE Topographic Surveying	STC Traffic Control & Striping	West Coast Civil Erosion & Permitting	SUBCONSULTANT Mark-Up	SUBCONSULTANT TOTAL	PROJECT TOTAL
	9.3 90% Design Phase	$ 98,062		$ 46,250	$ 5,900		$ 24,325			$ 928	$ 2,322	$ 79,725	$ 177,787
	9.4 Final Design Phase	$ 20,039		$ 39,485	$ 5,900		$ 7,340			$ 928	$ 1,610	$ 55,263	$ 75,302
10	BOARD WORKSHOPS/MEETINGS	$ 99,649		$ 45,285	$ 14,916		$ 37,506		$ 6,292	$ 4,729	$ 3,262	$ 111,990	$ 211,639
	10.1 Board Workshop/Meeting No. 1	$ 22,327		$ 15,095	$ 7,458		$ 12,502		$ 3,146		$ 1,146	$ 39,347	$ 61,674
	10.2 Board Workshop/Meeting No. 2	$ 27,857		$ 15,095	$ 7,458		$ 12,502		$ 3,146	$ 4,729	$ 1,288	$ 44,218	$ 72,075
	10.3 Board Workshop/Meeting No. 3	$ 19,223		$ 15,095			$ 12,502				$ 828	$ 28,425	$ 47,648
	10.4 As-needed Additional Meetings	$ 30,243											$ 30,243
11	PROJECT MANAGEMENT, QC, AND MEETINGS	$ 714,622		$ 389,380	$ 176,312		$ 296,152		$ 70,468	$ 19,791	$ 28,563	$ 980,666	$ 1,695,288
	11.1 Project Schedule	$ 33,052										$ -	$ 33,052
	11.2 Project Management	$ 173,488		$ 212,700	$ 13,740		$ 77,026		$ 7,645	$ 3,080	$ 9,426	$ 323,617	$ 497,104
	11.3 Project Meetings (Bi-weekly)	$ 229,606		$ 62,580	$ 84,240		$ 62,103		$ 14,679	$ 16,711	$ 7,209	$ 247,522	$ 477,128
	11.4 Quality Assurance / Quality Control (QA/QC)												
	11.4.1 QA/QC Plan	$ 6,284		$ 8,820							$ 265	$ 9,085	$ 15,369
	11.4.2 Validation Phase	$ 43,040		$ 16,920	$ 13,842		$ 15,702		$ 4,814		$ 1,538	$ 52,817	$ 95,857
	11.4.3 Preliminary Engineering Phase	$ 50,135		$ 22,090	$ 16,792		$ 39,256		$ 12,036		$ 2,705	$ 92,879	$ 143,014
	11.4.4 60% Design Phase	$ 77,650		$ 29,453	$ 16,792		$ 47,107		$ 14,443		$ 3,234	$ 111,029	$ 188,679
	11.4.5 90% Design Phase	$ 45,331		$ 22,090	$ 13,842		$ 31,405		$ 9,629		$ 2,309	$ 79,274	$ 124,605
	11.4.6 100% Design Phase	$ 32,732		$ 7,363	$ 10,892		$ 15,702		$ 4,814		$ 1,163	$ 39,935	$ 72,667
	11.4.7 Final Design Phase	$ 23,305		$ 7,363	$ 6,172		$ 7,851		$ 2,407		$ 714	$ 24,507	$ 47,812
12	BID PH. SUPPORT SERV./ADDENDA/CONFORMED SET	$ 259,764		$ 129,625	$ 34,180		$ 72,027			$ 3,375	$ 7,176	$ 246,383	$ 506,148
	12.1 Prepare Final Bid Docs. (Electronic Only)	$ 16,534		$ 15,865	$ 11,104		$ 18,007			$ 1,125	$ 1,383	$ 47,484	$ 64,017
	12.2 Pre-Bid Meeting & Job Walk	$ 8,937		$ 8,195	$ 3,160		$ 9,003				$ 611	$ 20,969	$ 29,906
	12.2 RFI Responses & Addendum Issuance	$ 59,592		$ 42,690	$ 11,040		$ 27,010			$ 1,688	$ 2,473	$ 84,900	$ 144,493
	12.3 Final Conformed Set (20 Hard Copies)	$ 174,702		$ 62,875	$ 8,876		$ 18,007			$ 563	$ 2,710	$ 93,030	$ 267,731
	TOTAL BASELINE DESIGN FEE	**$ 4,521,346**	**$ 1,198,340**	**$ 3,655,875**	**$ 1,501,337**	**$ 934,447**	**$ 1,759,436**	**$ 642,052**	**$ 461,070**	**$ 277,446**	**$ 312,900**	**$ 10,742,903**	**$ 15,264,249**
13	ENGINEERING SERVICES DURING CONST. - TBD	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
14	REQUESTED ADDITIONAL SERVICES (OPTIONAL)	$ 632,264	$ 1,200,000	$ 92,229	$ 75,184	$ -	$ 202,363			$ 827,733	$ 71,925	$ 2,469,435	$ 3,101,698
	14.1 Public Outreach												
	14.1.1 Coordination and Meetings	$ 62,948											$ 62,948
	14.1.2 Strategic Comm & Engagement Plan	$ 37,425											$ 37,425
	14.1.3 Community Outreach	$ 131,243											$ 131,243
	14.1.4 Interagency Coordination	$ 170,398											$ 170,398
	14.1.5 Permit & CEQA Outreach support	$ 101,248											$ 101,248
	14.4 Supp. Potholing (200 potholes) & Onsite Field Support	$ 21,347	$ 1,200,000	$ 29,054			$ 67,499				$ 38,897	$ 1,335,450	$ 1,356,796
	14.6 Relinquishing Unused Easements	$ 18,737					$ 103,284				$ 3,099	$ 106,383	$ 125,120
	14.8 Geotechnical Baseline Report	$ 13,264		$ 63,175	$ 75,184						$ 4,151	$ 142,510	$ 155,774
	14.10 Erosion Control and Site Restoration Plans	$ 10,301								$ 827,733	$ 24,832	$ 852,565	$ 862,866
	14.17 Flume Demolition Bid Package (includes printing)	$ 65,353					$ 31,580				$ 947	$ 32,527	$ 97,880
14	OTHER ADDITIONAL SERVICES (OPTIONAL)	$ 316,224		$ 32,785	$ 455,673	$ 430,221	$ 497,499	$ 130,122	$ 641,824	$ 368,615	$ 62,377	$ 2,619,115	$ 2,935,340
	14.2 Funding Support (As-needed T&M)	$ 200,000											$ 200,000
	14.3 Radio Path Field Survey	$ 25,000											$ 25,000
	14.5 Rincon Water and Esco. (bkfd) Serv. Conn. Hydr. & Design						$ 477,513					$ 477,513	$ 477,513
	14.7 Supplemental Topographic Survey & Mapping							$ 88,625			$ 2,659	$ 91,284	$ 91,284
	14.9 Supplemental Environmental Support					$ 430,221					$ 12,907	$ 443,128	$ 443,128
	14.11 ADA Improvement Plans	$ 6,181								$ 354,743	$ 10,642	$ 365,385	$ 371,566
	14.12 Temporary Traffic Control Drawings (90%, 100%, Final)	$ 16,481							$ 629,239		$ 18,877	$ 648,116	$ 664,598
	14.13 Geotechnical - Soil Contamination	$ 2,751			$ 50,000						$ 1,500	$ 51,500	$ 54,251
	14.14 Geotechnical - Additional Investigations for Design	$ 2,429			$ 220,602						$ 6,618	$ 227,220	$ 229,649
	14.15 Geotechnical - Flume Demolition & Restoration	$ 4,857			$ 168,424						$ 5,053	$ 173,477	$ 178,334
	14.16 Final Site Walk and Survey Reconciliation (100%)	$ 58,526		$ 32,785	$ 16,647		$ 19,986	$ 41,497	$ 12,585	$ 13,872	$ 4,121	$ 141,493	$ 200,018
	14.18 Design CWA VID3 Replacement (scope & fee TBD)												
	14.19 Real Property Acquisition (scope & fee TBD)												

STAFF REPORT	**Agenda Item: 9** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Holly Roberson and Brett Hodgkiss**

SUBJECT: 2026 ONE-TIME PURCHASE OF RINCON ENTITLEMENT WATER

RECOMMENDATION: Authorize the General Manager to purchase up to 250 acre feet of Rincon Entitlement Water at a price of $500 per acre foot with the total not to exceed $125,000.

PRIOR BOARD ACTION: None.

FISCAL IMPACT: The purchase of Rincon Entitlement Water (REW) would reduce purchased raw water expenses by just under $1,000 per acre foot (af); by purchasing 250 af of REW (local water), the District would save $247,500 in purchased water costs. The current cost of purchased raw water from the San Diego County Water Authority is $1,490/af (versus $500/af for REW).

SUMMARY: The Rincon Band of Luiseno Indians (Rincon Band) has proposed an arrangement under which the Local Entities (the District and the City of Escondido) would purchase all remaining 2026 REW. The amount of undelivered REW was approximately 541 af as of September 16, 2026; under the arrangement, it is anticipated that the District and City of Escondido would each purchase about 250 af of REW. The agreement to purchase REW would be a one-time, non-precedential arrangement.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 10** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: MATTERS PERTAINING TO THE ACTIVITIES OF THE SAN DIEGO COUNTY WATER AUTHORITY

SUMMARY: Informational report by staff and directors concerning the San Diego County Water Authority. No action will be required.

STAFF REPORT	**Agenda Item: 11.A** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Ramae Ogilvie**

SUBJECT: REPORTS ON MEETINGS AND EVENTS ATTENDED BY DIRECTORS

SUMMARY: Directors will present brief reports on meetings and events attended since the last Board meeting.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 11.B** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Ramae Ogilvie** **Approved By:** **Brett Hodgkiss**

SUBJECT: SCHEDULE OF UPCOMING MEETINGS AND EVENTS

SUMMARY: The following is a listing of upcoming meetings and events. Requests to attend any of the following events should be made during this agenda item.

	SCHEDULE OF UPCOMING MEETINGS AND EVENTS	ATTENDEES
1 *	**Vista Chamber Business Mixer** *September 29, 2026; 4:00 p.m. – 6:00 p.m.; Palomar College* *Registration deadline: none*	
2 *	**Vista Chamber Government Affairs** *October 1, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
3	**ACWA Region 10 Event** *October 14, 2026; 9:00 a.m.; The Westin Carlsbad Resort & Spa, Carlsbad, CA* *Registration deadline: October 7, 2026*	
4 *	**CSDA Quarterly Water Utilities Committee Lunch Meeting** *October 20, 2026; 11:30 a.m. – 1:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
5 *	**Vista Chamber Government Affairs** *November 5, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
6	**Weymouth Treatment Plant Tour -** *Hosted by Marty Miller* *November 5, 2026; Le Verne, CA* *Registration deadline: TBD*	
7 *	**CSDA Quarterly Dinner Meeting** *November 19, 2026; 5:45 p.m. – 9:00 p.m.; The Butcher Shop Steakhouse* *Registration deadline: TBD*	
8	**ACWA 2026 Fall Conference** *December 1-3, 2026; Anaheim, CA* *Early Registration deadline: November 3, 2026; Cancellation deadline: November 20, 2026*	Sanchez (R)(H) MacKenzie (R)(H) Miller (R)(H)
9 *	**Vista Chamber Government Affairs** *December 3, 2026; 12:00 p.m. – 1:30 p.m.; The Film Hub, Vista* *Registration deadline: none*	
10	**Colorado River Water Users Association Conference** *December 9-11, 2026; Caesars Palace, Las Vegas, NV* *Registration deadline: November 6, 2026; Cancellation deadline: November 6, 2026*	MacKenzie (R)(H) Miller (R)(H) Sanchez (R)(H)

** Non-per diem meeting except when serving as an officer of the organization.*
The following abbreviations indicate arrangements that have been made by staff:
R=Registration; **H**=Hotel; **A**=Airline; **S**=Shuttle; **C**=Car; **T**=Tentative; ◊=Attendee to Self-Register
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VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 12** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: ITEMS FOR FUTURE AGENDAS AND/OR PRESS RELEASES

SUMMARY: This item is placed on the agenda to enable the Board to identify and schedule future items for discussion at upcoming Board meetings and/or identify press release opportunities.

Staff-generated list of tentative items for future agendas:

- Golden Pacific Powerlink project (October)
- Fees and charges other than water rates (October - following Fiscal Policy Committee review)
- 2027 Board Calendar (October)
- Revisions to Compensation Schedule (November/December)
- Annual Organizational Meeting (December)
- Financing Capital Projects presentation (April 2027)
- Governance/Strategic Plan
- Concession Management Agreement - Lake Henshaw Recreation Area Operations
- Liability, Property and Workers' Compensation insurance review

STAFF REPORT	**Agenda Item: 13** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Ramae Ogilvie**

SUBJECT: COMMENTS BY DIRECTORS

SUMMARY: This item is placed on the agenda to enable individual Board members to convey information to the Board and the public not requiring discussion or action.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 14** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: COMMENTS BY GENERAL COUNSEL

SUMMARY: Informational report by the General Counsel on items not requiring discussion or action.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 15** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: COMMENTS BY GENERAL MANAGER

SUMMARY: Informational report by the General Manager on items not requiring discussion or action.

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 16** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: CLOSED SESSION FOR CONFERENCE WITH REAL PROPERTY NEGOTIATOR

SUMMARY: Discussion concerning real property transactions in compliance with Government Code section 54956.8 regarding:

Property:	Unaddressed property commonly known as part of Warner Ranch (136-160-43-00)
VID Negotiator:	Brett Hodgkiss, General Manager
Negotiating Party:	United States Department of Navy
Under Negotiation:	Lease and License Agreement Price and Terms

VISTA IRRIGATION DISTRICT **STAFF REPORT**	**Agenda Item: 17** **Board Meeting Date:** **September 23, 2026** **Prepared By:** **Brett Hodgkiss**

SUBJECT: CLOSED SESSION – PUBLIC EMPLOYEE APPOINTMENT – GENERAL MANAGER

SUMMARY: Public employee appointment pursuant to Government Code section 54957.