XA.

GRANT PROGRAM
Revised DETAILED APPLICATION BUDGET DETAILS

Central California Irrigation District 46163
Orestimba Creek Recharge and Recovery Project

Budget Category		Consulting/Materials/Equipment				TOTALS
		Unit Cost	Units	Units	Total Cost	
1. Direct Project Administration Costs					**$65,400.00**	**$65,400.00**
Task 1: Project Management					**$42,160.00**	**$42,160.00**
Task 2: Reporting					**$23,240.00**	**$23,240.00**
2. Planning/Design/Engineering/ Environmental/Land					**$2,515,444.00**	**$2,515,444.00**
Task 3: Topographic Surveying, Mapping, Geotech					**$77,319.00**	**$77,319.00**
Task 4: Design/admin					**$348,125.00**	**$348,125.00**
Task 5: Environmental Documentation					**$285,000.00**	**$285,000.00**
Task 6: Permitting					**$161,000.00**	**$161,000.00**
Task 7: Land Acquisition			60 ac.		**$1,615,000.00**	**$1,615,000.00**
Task 8: Bid Documents and Award					**$29,000.00**	**$29,000.00**
3. Construction/Implementation					**$6,162,458.00**	**$6,162,458.00**
Task 9: Construction Administration					**$231,000.00**	**$231,000.00**
Task 10.1 Mobilization,Bonds,Insurance,and Permits					**$342,700.00**	**$342,700.00**
Task 10.2 Construction of Ponds and Conveyance Facilities					**$4,142,058.00**	**$4,142,058.00**
Pond Excavation					$862,500.00	$862,500.00
Turnout Receiving Ditch					$40,250.00	$40,250.00
Excavate Lift Pump Ditch					$34,500.00	$34,500.00
Construct Concrete Floor - Lift Pump Stand			LS		$10,120.00	$10,120.00
Construct Concrete Turnout Structure					$138,000.00	$138,000.00
Furnish and Install 36" Pipeline			LF	1900	$360,525.00	$360,525.00
Furnish and Install 42" Pipeline			LF	5136	$1,269,876.00	$1,269,876.00
Furnish and Install 12" Steel Pipeline			LF	400	$46,000.00	$46,000.00
Furnish and Install 48 "Dia RGRCP,Open Cut Bell Road			Ea	137	$70,897.00	$70,897.00
Demolish and Replace Existing Distribution Box (1)				1	$57,500.00	$57,500.00
Furnish and Install Lift Pump and Stands					$74,750.00	$74,750.00
Furnish and Install Lift Pumps & Motors(10cfs-40hp, 25cfs-50hp)					$230,000.00	$230,000.00
Furnish and Install Lift Pump Discharge, Appurtenances and 36" Dia steel Manifold					$63,250.00	$63,250.00
Electrical for Lift Pumps					$345,000.00	$345,000.00
Stuhr Road Bore and Jack 48"Dia 3/8 " Thick Steel Casing			LF	122	$252,540.00	$252,540.00
Construct Junction Box to Basin Pipeline					$57,500.00	$57,500.00
Pond Discharge and Dissipator					$57,500.00	$57,500.00
Demolition					$46,000.00	$46,000.00
Clearing and Grubbing				70	$96,600.00	$96,600.00
Temporary Construction Traffic Control					$28,750.00	$28,750.00
Task 10.3 Recovery Wells					**$1,071,800.00**	**$1,071,800.00**
Construct Production Wells		$200,000.00	Ea	4	$920,000.00	$920,000.00
Electrical		$33,000.00	Ea	4	$151,800.00	$151,800.00
Task 10.4 Performance Testing and Demobilization					**$374,900.00**	**$374,900.00**
Demobilization					$34,500.00	$34,500.00
Worker Protection					$143,750.00	$143,750.00
Environmental Compliance Measures and Stormwater Pollution Prevention Program					$196,650.00	$196,650.00
4. Equipment Purchases Over $5,000*						
5. Monitoring/Performance					**$52,600.00**	**$52,600.00**
Task 11 Monitoring/Performance					**$2,600.00**	**$2,600.00**
Performance Testing					$50,000.00	$50,000.00
6. Education/Outreach					**$32,800.00**	**$32,800.00**
Task 12: Public Outreach and Signage					**$32,800.00**	**$32,800.00**
Grand Total:				**7774**	**$8,861,502.00**	**$8,861,502.00**

Revised 11-1-21

SWGP Award	$ 5,597,986.00
IRWM Funding	$ 809,264.00
Total Grant Funding	$ 6,407,250.00
Total Local Match	$ 2,454,252.00

104

2. **TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON AGENDA**
There was no one present who wished to speak.

3. **APPROVAL OF MINUTES**

3.1 APPROVAL OF MINUTES
It was moved by Director Richard P. Santos, second by Director John L. Varela, and by roll call and unanimous vote carried to approve the minutes of the July 19, 2021, meeting of the Water Storage Exploratory Committee as presented.

4. **ACTION ITEMS**

4.1 GROUNDWATER BANK UPDATE
Mr. Andrew Garcia reviewed the materials as outlined in the agenda item.

The Water Storage Exploratory Committee discussed the following: alternate water sources, cost for pumping, ranking the banks, exchange issues, and any other semi-tropic water.

Ms. Cindy Kao and Mr. Vincent Gin were available to answer questions.

The Water Storage Exploratory Committee took no action.

4.2 LOS VAQUEROS RESERVOIR EXPANSION PROJECT UPDATE
Mr. Michael Martin reviewed the materials as outlined in the agenda item.

The Water Storage Exploratory Committee discussed the following: JPA formed but has not met yet.

The Water Storage Exploratory Committee took no action.

4.3 PACHECO RESERVOIR EXPANSION PROJECT STAFF RECOMMENDED ALTERNATIVE AND PROJECT UPDATE
Mr. Ryan McCarter reviewed the materials as outlined in the agenda item.

The Water Storage Exploratory Committee discussed the following: alternative borders-State Park, tribal discoveries-mitigation, touring sites, agricultural concerns, draft EIR release, WIFIA Loan rate, and partners level of interest.

Public Comment Received:
Hon. Steve Jordan-congratulations on the progress, costs, and partners this is good news.

Ms. Charlene Sun was available to answer questions.

The Water Storage Exploratory Committee took no action, however, suggested having Director John L. Varela continue to build relationships with the elected officials.

4.4 STANDING ITEMS REPORT

Mr. Vincent Gin, Mr. Andrew Garcia and Ms. Cindy Kao gave verbal reports on the following projects:

Semitropic:

- 90 % full, DWR-recovering water, South Bay Contractors, No challenges, safety withdrawals,
- Salinity, have to stop pumping they'll have to reverse flow/if hydrology is low as well

Sites

- Project agreement, JPA Board approves additional WIIN Act funding, Amendment 3.

B.F. Sisk Dam Raise Project

- EIR final report, single participation approach, cost allocations.

Mr. Aaron Baker was available to answer questions.

The Water Storage Exploratory Committee took no action.

4.5 REVIEW WATER STORAGE EXPLORATORY COMMITTEE WORK PLAN AND THE COMMITTEE'S NEXT MEETING AGENDA

Ms. Glenna Brambill reviewed the agenda materials as outlined in the agenda item.

Schedule tours and invite Pacheco Pass Water District and CAL Fire.

The Water Storage Exploratory Committee took no action.

5. CLERK REVIEW AND CLARIFICATION OF COMMITTEE ACTIONS

Ms. Glenna Brambill noted there were no action items for Board consideration.

6. ADJOURNMENT

Committee Chair Director Gary Kremen adjourned the meeting at 12:57 p.m.

Glenna Brambill
Board Committee Liaison
Office of the Clerk of the Board

Approved:

This Page Intentionally Left Blank

blank

XF.

PUBLIC WORKS DEPARTMENT
2220 HACKETT ROAD
CERES, CA 95307-3600
(209) 538-5732
FAX (209) 538-5605

City of Ceres
Public Works Department
Request for Engineering Services
Wastewater Treatment Plant Export Pump Station Pumping Improvements

The City of Ceres was contacted by the Del Puerto Water District (Del Puerto) regarding the potential for Ceres to increase near-term effluent pumping to the City of Turlock Regional Water Quality Control Facility (RWQCF). The reason for Del Puerto's request is to increase the water available to Del Puerto as recycled water through the North Valley Regional Recycled Water Program (NVRRWP). In order to accomplish this increase, physical improvements are necessary at the City of Ceres Wastewater Treatment Plant (WWTP), commencing with increasing the pumping capacity of the Ceres export pump station. Depending on discharge quality limited by the Turlock RWQCB. Current estimates for the design and construction of these facilities indicate a total project cost of approximately $0.95 million (M). The specific improvements identified include:

Scope of Services:
This Scope of Services includes tasks to be completed by the engineering firm. Items within this scope of work include:

1. Replacement of the three existing 30 Hp submersible pumps with 85 Hp pumps
2. Modifications to the pump discharge piping and wet well floor to accommodate the larger pumps
3. Major improvements to the power systems feeding the export pump station
4. New electrical cabinets for the larger pumps
5. Pump station updated operational strategies and programming and integration into the City's WWTP SCADA system

Background:
The City's Wastewater Treatment Plant was constructed in 1975. Several upgrades to the plant have been made including an export pipeline. The export pipeline was installed in 2000 and designed to transport up to two (2) million gallons daily (MGD) of treated wastewater flow from the Ceres Wastewater Treatment Plant to the City of Turlock. This export of wastewater decreases the amount of water on site that is percolated into the ground. Currently, the pipeline delivers one (1) MGD continuously and reliably.

125

The City of Ceres went into agreement with the City of Turlock on October 28, 2003 to deliver up to one (1) million gallons a day to the City of Turlock's Wastewater Treatment Plant. This agreement was updated to deliver up to two (2) million gallons a day on January 9, 2007. A portion of the treated effluent is provided to Del Puerto Canyon for irrigation purposes.

The City of Ceres has a pump station that exports wastewater to Turlock through a fourteen (14) mile pipeline that is eighteen (18) inches in diameter. Studies conducted previously, as well as requests from Del Puerto Canyon for more water, have led staff to inquire further on expanding the export pump stations ability to increase wastewater flows to the City of Turlock. The City is seeking conceptual designs with cost analysis to increase the pumping capacity of the export pump station. The Consultant shall provide coordination between the Cities of Turlock, Ceres, and Del Puerto Water District.

The selected Consultant will review the Export Pump Station requirements, including electrical modifications, to increase the effluent to a 2.5 million gallons a day to the City of Turlock. The following is a scope of work; the specifications and budget for the project need to be prepared. Coordination with Woodard and Curran and Del Puerto Water District for grant opportunities are necessary to assist with the project cost.

Export Pump Station Scope of Services
The Export Pump Station project is segregated into several phases and is described below.

Task 1 - Participate in coordination with Del Puerto and the City of Turlock through the design and funding process, provide project management during the design effort, and provide pre-design period equipment procurement and geotechnical services. The project management and pre-design services will include:

1. Provide project management, communication, and coordination with the City throughout the design phase of the project, expected to be approximately five months
2. Throughout the design process, attend bi-weekly coordination conference calls with the City of Ceres and Del Puerto for the purpose of reviewing project progress, schedules, and other relevant discussion points. Approximately sixteen bi-weekly meetings, requiring no more than two engineering hours per meeting for preparation, attendance, and follow-up are expected
3. The Del Puerto Water District will be pursuing grant funding to assist in project funding. The Consultant shall provide project information for Del Puerto's use in preparing such applications. The effort is assumed to consist of developing a limited number of project descriptions, cost estimates, and project schedules, to be provided to Del Puerto for including in grant application documents
4. Additional meetings and communication between the City of Ceres, City of Turlock, and Del Puerto Water District are expected to be needed related to technical and/or agreement items related to the project. The Consultant will support the City during those meetings, including preparing technical information, attending the meetings, and providing

appropriate follow-up. The expected budget for this sub-task is based on a total of five virtual or in-person meetings for agency coordination

5. Procurement of key equipment items is expected to be the primary schedule driving factor. To facilitate as rapid a project completion as practicable, we are proposing to negotiate pre-purchase of certain equipment items including pumps and variable frequency drives (VFDs). Under this sub-task, the Consultant and the electrical engineering sub-consultant shall solicit and negotiate pre-purchase of the project pumps and VFDs for novation to the construction contractor at the time of bidding. The Consultant shall prepare a draft assignment and novation agreement based on prior projects for City level counsel review. For sole source items, the Consultant shall provide the City with a template City Council Resolution for authorizing sole source purchase based on applicable provisions of the Public Contract Code. Under this sub-task, assume that the pre-purchase documents will consist of a scope of supply/service, bid form, supply contract, and template assignment and novation agreement
6. The proposed project will require amendment of the current agreements between the City of Ceres and the City of Turlock. The Consultant shall provide technical support, budgeted at 24 engineering hours, to the City of Ceres in developing the scope and technical details of an amended agreement for increasing discharge of effluent to the Turlock RWQCF

Task 2 - Prepare design documents for the export pump station pumping improvements at the Ceres WWTP. This task includes the following design document preparation and design related sub-tasks:

1. Limited topographic survey and existing conditions mapping will be completed to include topographic mapping of the existing Ceres WWTP site at the export pump station location. Topographic survey and mapping will include key surface features and accessible utilities and structures within the expected construction/design limits of the project. City-provided survey control will be used if available
2. Design documents, consisting of plans, technical specifications, and an opinion of probable construction cost, shall be developed to the 60% level of development for City review. The 60% design submittal is proposed to include:
    a. 60% level of development drawings including:
        i. General sheets
        ii. Demolition sheets
        iii. Mechanical plans for existing pump station modifications
        iv. Electrical plans and single-line diagrams
    b. Table of contents for technical specifications, with select specifications developed to near 90% level (e.g., submersible pumps, vertical effluent pumps, and VFDs) for review
    c. 60% level of development opinion of probable construction cost
3. Following review of the 60% design documents, the design documents will be developed to the 90% level of development for City review. The 90% design submittal is proposed to include:
    a. 90% level of development drawings including:

i. General sheets
ii. Demolition sheets
iii. Mechanical plans and details for existing pump station modifications
iv. Electrical plans, single-line diagrams, and details
v. Process and instrumentation diagrams

b. Technical specifications developed to the 90% level
c. 90% level of development opinion of probable construction cost

4. At the 90% level of development, the Consultant shall prepare the contract documents for the project. This task includes using the EJCDC standard contract form templates with City of Ceres-specific agreement if appropriate. Contract documents will be submitted for review between the 90% and 100% design document stages. Contract documents will include:
   a. Bidding notice, forms, and instructions
   b. Agreement and bond and certification documents
   c. General Conditions and City-specific Special Conditions
5. The Consultant shall prepare for and conduct design review meetings (either in person or virtual) at the 60% and 90% level of development stages
6. Following input to the 90% design documents and review of the draft Contract Documents, the Consultant shall prepare the 100% bid set of design and contract documents stamped for bidding. The City anticipates bidding of the project using electronic versions (Portable Document Format, PDF) of the documents

Task 3 - Provide limited support to the City through the bidding process, assuming that documents will be posted through the City of Ceres on-line bidding website. Final documents prepared under the previous task (Task 2) will be provided to the City for posting in electronic PDF format. During the bidding and contracting phase, the Consultant shall provide the following:

1. Addendum will be prepared where bidder questions, new information required for clarification, or City requirements dictate formal clarification or addition to the contract documents. It is anticipated to prepare one minor contract document clarification (including plans and specification revisions) as addendum. All bid-period responses will be provided to the City for posting through the City's on-line bidding website
2. Attend an on-site pre-bid meeting with prospective bidders. This task assumes that the City will manage the following bid-period items:
   a. Electronic posting of all documents and all administrative related bid
   b. Responding to bidder inquiries regarding administrative items or items that only require directing the prospective bidder to sections on the documents for answers
   c. Preparing and posting addendum related to administrative items, such as changes in bid date and time
   d. City will review the bids for responsiveness to bidding requirements and provide any review of bidder responsibility

Task 4 – The Consultant shall provide design-related construction period support to the City including design services during construction and startup and system programming support.

128

Active construction is anticipated to be conducted over a four-month period (which does not include time for procurement of long-lead equipment). The expected construction period services include:

1. The Consultant shall prepare for and attend the following construction-period meetings:
   a. Pre-construction meeting
   b. Construction period progress meetings (anticipated to be no more than semi-weekly)
   c. Final walk-through and punch list site visit
2. The Consultant shall support the City and the Contractor on systems startup and programming. Electrical sub-consultant shall provide all programing of existing and new PLCs related to the export pump station. SCADA application development is excluded; however up to 24 hours of coordination and testing time are included to interface with the City's SCADA Consultant. Startup and programming support is anticipated to consist of two people over 10 days for system programming and startup to include:
   a. Export pump station PLC programming
   b. Coordination with City's SCADA consultant
3. The Consultant shall review contractor supplied submittals and RFIs. Our budget assumes a total of 15 submittals and 10 RFIs, with an average of 2 to 3 hours review per submittal or RFI

Note: This task assumes that the City will manage the following construction-period items:

1. Construction management and contract administration during construction to include:
   a. Preparation of compiled contract documents integrating addendum and pre-purchase requirements
   b. Document control and tracking
   c. Review and tracking of the contractor's progress under their proposed schedule
   d. Review of contractor pay requests
   e. Processing and tracking of Requests for Information, potential change orders, and field directives
   f. Contract related correspondence with the Contractor
   g. Review and screening of Contractor RFIs, submittals, and other correspondence for consistency with Contract requirements before forwarding to Consultant for input
2. Preparing for and coordinating the following construction-period meetings:
   a. Pre-construction meeting
      i. Construction period progress meetings (anticipated to be weekly to semi-weekly)
      ii. Final walk-through and punch list site visit, with attendance by key Consultation staff
      iii. Integrating equipment pre-purchase requirements into the Contractor's contract and scope and contract of supply between the pump and/or VFD supplier initially coordinated by the Consultant
      iv. Construction observation, including review of civil, electrical, and mechanical project components, provided by the City using staff experienced with water/wastewater related infrastructure, electrical, and instrumentation

Tank 5 – Following completion of construction and during initial system startup and commissioning, the Engineering team will assist the City with the following post-construction services:

1. Record drawings will be prepared based on contractor-maintained redline markups. Record drawings will be provided to the City in PDF format.
2. A key objective of the export pumps station pumping improvements is the increase in discharge quantity and pressure to the City of Turlock RWQCF. After project commissioning, the Consultant and Contractor staff will work closely with City operations staff to monitor and stress test the improved system to assess the effect and effectiveness of the improvements to reduce suspended solids, biochemical oxygen demand, flushing capabilities, and ultimately flow and pressure conditions in the discharge to Turlock. The Consultant and Contractor staff will monitor system stress testing with City staff, collect operational measurements, and evaluate system performance. A performance review memorandum will be prepared assessing the initial effectiveness of the system improvements and informing the operational requirements.
3. Since operation of the export pump station will change operations of the WWTP, per the requirements of the Standard Provisions and Reporting Requirements of the City's Waste Discharge Requirements updates to the system operations plan must be made. The Consultant will prepare separate updated export pump station operations plan for including into the City's WWTP Operation and Maintenance Manual. Operations plan will be prepared in draft form for City review and final documents revised per City comments and delivered as PDF documents.

Scope Understandings and Assumptions

The proposed scope of services and budget are based on the following additional limitations, assumptions, and understandings:

1. CEQA document preparation, environmental information and CEQA alternatives analysis or environmental permits will be prepared under separate scope or by others.
2. Design review will be by the City Public Works Department and separate Building Department review and approval of the project will not be required.
3. Pre-purchase of pumps and VFDs will consist of awarding the supply contract and Consultant reviewing initial submittals for conformance with Contact requirements before the contract for supply, installation, and startup of the equipment is assigned to the Construction contractor. It is assumed that the City and Consultant will not be responsible for procurement, scheduling, or installation coordination after assignment of the supply contract to the Construction contractor.
4. Design review, if any, by Del Puerto is expected to be limited and not result in substantive comments.
5. Preparation of contract change orders, the Consultant shall provide design-related services on a time and expense basis per potential contract change order.
6. Revisions to the Report of Waste Discharge, and any associated Basin Plan Amendment reporting, if any, would be provided under separate contract.

7. Design of improvements to accommodate use of the existing filters will be under separate authorization.

Assumptions:

1. The project management and programming budget shall be based on a total design project duration of 4 months
2. Sufficient monumentation will be locatable to determine right-of-way and property limits

blank