STOCKTON EAST WATER DISTRICT

PROVIDING SERVICE SINCE 1948

REGULAR BOARD MEETING

SEPTEMBER 7, 2021

STOCKTON EAST WATER DISTRICT
PROVIDING SERVICE SINCE 1948
www.sewd.net

DIRECTORS

Richard Atkins
Vice President
Division 1

Andrew Watkins
President
Division 2

Alvin Cortopassi
Division 3

Melvin Panizza
Division 4

Paul Sanguinetti
Division 5

Loralee McGaughey
Division 6

Thomas McGurk
Division 7

STAFF

Scot A. Moody
General Manager

Justin M. Hopkins
Assistant General Manager

LEGAL COUNSEL

Jeanne M. Zolezzi
General Counsel

Phone 209-948-0333
Fax 209-948-0423

E-mail sewd@sewd.net

6767 East Main Street
Stockton, CA 95215

Post Office Box 5157
Stockton, CA 95205

MEETING NOTICE

THE REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE STOCKTON EAST WATER DISTRICT WILL BE HELD AT 12:30 P.M., TUESDAY, SEPTEMBER 7, 2021 AT THE DISTRICT OFFICE, 6767 EAST MAIN STREET STOCKTON, CALIFORNIA 95215

Assistance for the Disabled: If you are disabled in any way and need accommodation to participate in the meeting, please contact Kristin Carido, Administrative Services Manager (209) 948-0333 at least 48-hours in advance for assistance so the necessary arrangements can be made.

DUE TO COVID-19 STOCKTON EAST WATER DISTRICT BOARD MEETINGS WILL BE AVAILABLE BY TELECONFERENCE.

Please call (425) 436-6336/Access Code: 866228# to be connected to the Regular Board Meeting, to begin at 12:30 p.m.

Agendas and minutes are located on our website at www.sewd.net.

AGENDA

Page No

A. Pledge of Allegiance (Director Cortopassi) & Roll Call

B. Consent Calendar (None)

C. Public Comment (Non-Agenda Items)

D. Scheduled Presentations and Agenda Items

8. Stockton East Water District – Request for Bids for Tunnel Outlet Flume Project Discussion 29

E. Committee Reports

1. Eastern San Joaquin Groundwater Authority Ad-Hoc Technical Advisory Committee (TAC) Meeting, 1:00 p.m., 09/02/21 31

F. Report of the General Manager

1. Water Supply Report as of 08/30/21 33

2. Information Items
   a. Material Included, but Bound Separately from Agenda Packet: (None)

3. Report on General Manager Activities
   a. United States Bureau of Reclamation – Funding Opportunity No. R21AS00289 – WaterSMART: Applied Sciences Water Smart Grant for Fiscal Year 2021 for Eastside Groundwater Use Measurement Project (ASG-20), 09/02/21 35

   b. Stockton East Water District Activities Update

G. Director Reports

H. Communications

I. Agenda Planning/Upcoming Events

1. Eastern San Joaquin Groundwater Authority Joint Exercise of Powers Authority Meeting, 9:00 a.m., 09/08/21

2. San Joaquin County & Delta Water Quality Coalition Meeting, 9:00 a.m., 09/13/21

J. Report of the Counsel

1. Closed Session: REAL PROPERTY – GOVERNMENT CODE SECTION 54956.9 – Property: Water Rights
   Agency Negotiator: Scot A. Moody
   Negotiating Parties: USACE & SJFCA
   Under Negotiation: Borrow Material

2. Closed Session - Potential Litigation
   Government Code 54956.9 (c) – one case

3. Closed Session - Personnel
   Government Code 54957

K. Adjournment

Certification of Posting

I hereby certify that on September 2, 2021 I posted a copy of the foregoing agenda in the outside display case at the District Office, 6767 East Main Street, Stockton, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the Stockton East Water District (Government Code Section 54954.2).
Executed at Stockton, California on September 2, 2021.

Kristin Carido, Administrative Services Manager
Stockton East Water District

Any materials related to items on this agenda distributed to the Board of Directors of Stockton East Water District less than 72 hours before the public meeting are available for public inspection at the District's office located at the following address: 6767 East Main Street, Stockton, CA 95215. Upon request, these materials may be available in an alternative format to persons with disabilities.

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THE REGULAR MEETING OF THE BOARD OF DIRECTORS
OF STOCKTON EAST WATER DISTRICT WAS HELD AT THE DISTRICT OFFICE
6767 EAST MAIN STREET, STOCKTON, CA
ON TUESDAY, AUGUST 31, 2021 AT 12:30 P.M.

A. PLEDGE OF ALLEGIANCE AND ROLL CALL

President Watkins called the regular meeting to order at 12:30 p.m. and Director Sanguinetti led the Pledge of Allegiance.

Present at roll call at the District were Directors Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti and Watkins. Also present were Manager Moody, District Engineer Evensen, Finance Director Vega, Administrative Services Manager Carido, Legal Counsel Zolezzi and Consultant Barkett.

B. CONSENT CALENDAR (None)

C. PUBLIC COMMENT (None)

D. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Minutes 08/24/21 Regular Meeting

A motion was moved and seconded to approve the August 24, 2021 Regular Board Meeting Minutes, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nayes: None
Abstain: None
Absent: None

2. Warrants
   a. Fund 68 – Municipal & Industrial Groundwater Fund
   b. Fund 70 – Administration Fund
   c. Fund 71 – Water Supply Fund
   d. Fund 91 – Vehicle Fund
   e. Fund 94 – Municipal & Industrial Fund
   f. Summary
   g. Payroll
   h. Short Names/Acronym List
   i. SEWD Vehicles & Equipment

Director Atkins inquired on the expense on page 17, line item 72 for Charlie's Day & Nite, Inc., for key copies in the amount of $140.61. Manager Moody replied the keys made were for staff as Manager Moody advised re-keying the inner offices of the Administration Building.

Director Cortopassi inquired on the expense on page 12, line item 27 for San Joaquin County Department of Public Works in the amount of $36,090.00. Manager Moody replied this is the District's annual contribution for the Eastern San Joaquin Groundwater Authority Joint Exercise of Powers Authority.

Director Sanguinetti commented on the expense on page 18, line item 79 for Grainger in the amount of $196.21 noting that this same description was mentioned twice and the description "replacement rivet tool" conveys this tool was lost. Director Sanguinetti also commented he was glad to see the mechanics fixing things as you can tell from the descriptions listed in the warrants. Manager Moody replied they are and the purchase of a ball mount adaptor assisted in fixing a vehicle.

Manager Moody commented on the tool expenses and the need to purchase tools. Director Sanguinetti commented if they lose their tools they should replace. Manager Moody added staff now signs off on all inventory, so it is known if something comes up as missing.

A motion was moved and seconded to approve the August 31, 2021 Warrants, as presented.
Roll Call:
Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nayes: None
Abstain: None
Absent: None

3. Stockton East Water District – Standby Power and Power Study Project Memo, 08/31/21
Manager Moody provided the Board with information on the Standby Power and Power Study Project. Manager Moody reported the Study will provide information by looking at the entire power grid internally and voltage coming into the District that will be able to measure, quantify and also have some history. Director Sanguinetti inquired if this will be able to record voltage so the District can identify to PG&E where the problem is on one leg of the system because it has an effect on the whole system. Manager Moody added the Study will also include the generators. The Study will also assist staff in developing a Capital Improvements Project (CIP) list and timeline for related maintenance/projects.

Director Atkins inquired if the District has measurement on the solar facilities. Manager Moody replied there is tracking reported on the annual bill and we have the ability to log-in and view in real-time. District Engineer Evensen commented engineering staff reviews the real-time solar data throughout the year. President Watkins commented even one imbalance will affect the whole system. Director Sanguinetti inquired if the Study was a budgeted item. Manager Moody replied yes.

Director Cortopassi inquired if the Study must be done over a course of time. Manager Moody replied the bulk of the Study will be completed in a couple of months and the historian will be left in place to view over time, to be able to monitor. This item was for information only.

4. Stockton East Water District – Cotta-Ferreira Dam Replacement Project Memo, 08/31/21
Manager Moody provided information to the Board on the Cotta-Ferreira Dam Replacement Project. District Engineer Evensen reported the Cotta-Ferreira Dam is similar to the installation completed upstream of Mosher Creek Headworks. The Cotta-Ferreira Dam is the first one with a modernized design that includes implementation of a SlipMeter, and staff is requesting to purchase the SlipMeter from Rubicon.

Director McGurk inquired on how many users does this effect (cost versus benefit) and use of staff time. District Engineer replied in addition to saving staff time the SlipMeter will also be able to control spillage and it will be integrated onto the SCADA system. Manager Moody added there are a handful of surface water users in this location. Director McGurk commented

of the potential added users downstream. President Watkins inquired on the picture provided. District Engineer Evensen replied the picture is an upstream view noting the gate is behind a box that has a measuring device and is called a SlipMeter. Manager Moody added this item is a budgeted item. This item was for information only.

5. Cathy Green – Support for Association of California Water Agencies (ACWA) Vice President Correspondence, 08/18/21
   Manager Moody provided the Board with information on the request for support of Cathy Green for Association of California Water Agencies (ACWA) Vice President. Manager Moody reported the District also received a similar request for support for Pam Tobin running for ACWA President. Discussion followed regarding Pam Tobin and her also serving on ACWA's Region 4 Board. Director McGurk inquired if there will be more candidates requesting support. Manager Moody replied not knowing unless there is a candidate that decides to run at a later time.

   Consensus of the Board was to not take action on this item.

E. COMMITTEE REPORTS

1. San Joaquin Farm Bureau Federation – Water Committee Meeting, 08/24/21
   Directors Sanguinetti and Watkins and Manager Moody attended the August 24, 2021 San Joaquin Farm Bureau Federation – Water Committee Meeting. Manager Moody reported not many present and the District's that were present gave their reports. Director Sanguinetti added Dante Nomellini spoke also. The next meeting is scheduled for September 28, 2021.

F. REPORT OF GENERAL MANAGER

1. Water Supply Report as of 08/30/21
   Manager Moody provided a handout of the Water Supply Report for information only that included storage, release, and production data collected from various sources as of midnight last night.

   There is 99,158 AF in storage at New Hogan Reservoir. Current releases are set at 177 cfs. Current release at Goodwin Dam to Stanislaus River are set at 351 cfs and release to all water users are set at 213 cfs. There are 9 irrigator(s) on New Hogan and 4 irrigator(s) on New Melones. There are currently no Out-of-District irrigator(s). The water treatment plant is currently processing 33 mgd. The City of Stockton is currently processing 23 mgd.

   Manager Moody reported OID and SSJID revoked our contract with them effective last week Friday. District staff is currently putting together the total amount of water pumped. Director McGurk inquired on what water source the Water Treatment Plant (WTP) is currently using. Manager Moody replied New Melones and noted the WTP usually uses New Melones water except during storm events then the WTP switches to New Hogan because of the high turbidity in New Melones water during storm events.

2. Information Items:
   Manager Moody noted items: F2a-1, F2a-2, F2a-3 and F2a-4.

3. Report on General Manager Activities
   a. State Water Resources Control Board Sacramento-San Joaquin Delta Watershed Curtailment Compliance and Response Assistance Webinar, 08/31/21

Manager Moody reported the District's Senior Engineer attended the August 31, 2021 State Water Resources Control Board Sacramento-San Joaquin Delta Watershed Curtailment Compliance and Response Assistance Webinar as monthly reporting on our water right will begin in September. Manager Moody reported the correspondence regarding curtailment gave instructions to login and acknowledge the curtailment notice. Director Sanguinetti added you have to login and acknowledge for every single diversion owned. This item was for information only.

b. Stockton East Water District Activities Update
Manager Moody reported the District received $75,000 for a Water Smart Grant and a $50,000 Grant for the Hosie Fish Crossing. The District is waiting on the Grant for the EvapoTranspiration Study.

G. DIRECTOR REPORTS (None)

H. COMMUNICATIONS

1. State Water Resources Control Board – Initial Order Imposing Water Right Curtailment and Reporting Requirements in the Sacramento-San Joaquin Delta Watershed Letter, 08/20/21
Manager Moody provided the Board with the State Water Resources Control Board Initial Order Imposing Water Right Curtailment and Reporting Requirements in the Sacramento-San Joaquin Delta Watershed Correspondence. This item was for information only.

I. AGENDA PLANNING/UPCOMING EVENTS

1. Eastern San Joaquin Groundwater Authority Ad-Hoc Technical Advisory Committee (TAC) Meeting, 1:00 p.m., 09/02/21

2. District Holiday – Labor Day, 09/06/21

J. REPORT OF THE COUNSEL

1. Closed Session - Potential Litigation
Government Code 54956.9 (c) – one case

2. Closed Session – Personnel
Government Code 54957

President Watkins adjourned the meeting to closed session at 12:55 p.m. to discuss closed session agenda items. The regular meeting reconvened at 1:23 p.m., with no reportable action.

K. ADJOURNMENT

President Watkins adjourned the meeting at 1:34 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

kmc

STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
CALPERS SPECIAL CHECK REQUEST
SEPTEMBER 07, 2021

	Vendor name	District Fund#	Account #	Description	Amount	Invoice No.
1	CA Public Employees Retirement System (CalPERS)	70	10-5049-0	Retirement Contributions for Payroll 09/03/21-Admin	5,477.91	09/03/21 1245106351
				Total Fund 70 Admin	**$ 5,477.91**	
1	CA Public Employees Retirement System (CalPERS)	71	10-5049-0	Retirement Contributions for Payroll 09/03/21-WS-NM	2,654.08	09/03/21 1245106351
2	CA Public Employees Retirement System (CalPERS)	71	10-5058-0	Retirement Contributions for Payroll 09/03/21-WS-NH	1,248.20	09/03/21 1245106351
				Total Fund 71 Water Supply	**$ 3,902.28**	
1	CA Public Employees Retirement System (CalPERS)	94	10-5049-0	Retirement Contributions for Payroll 09/03/21-M&I	17,066.53	09/03/21 1245106351
				Total Fund 94 Municipal & Industrial	**$ 17,066.53**	
	Grand Total for Special Check Request on RBM 09/07/21				**$ 26,446.72**	

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New Hogan Reservoir Climate Resiliency and Multi-Benefit Flood Risk Reduction Feasibility Study

Concept Paper

May 14, 2021

Introduction & Purpose

The San Joaquin Area Flood Control Agency (SJAFCA) and the San Joaquin County Flood Control and Water Conservation District (County) are seeking to initiate a feasibility-level study and work in partnership with various stakeholders to identify and evaluate multi-objective project alternatives that will provide climate resiliency, reduced flood risk for the downstream Mormon Slough system, the City of Stockton, and surrounding communities; and support for meeting objectives and addressing critical overdraft as identified in the Eastern San Joaquin Groundwater Sustainability Plan (GSP). Local partners and key stakeholder include SJAFCA, the Eastern San Joaquin Groundwater Authority (GWA/GSA), ~~Can~~ San Joaquin County, City of Stockton, and Stockton East Water District (SEWD). SEWD is also the Groundwater Sustainability for much of the proposed project area.

Commented [JH1]: SEWD/SEWD customers, USACE, DWR, CDFW, NMFS, USFWS

Commented [ZM[2]: Who? Which?

Project Purpose

The purpose of the proposed pilot project is to integrate and achieve multiple objectives contained in; 1) the Lower San Joaquin Regional Flood Management Plan to reduce flood risks on the Calaveras River, and 2) the GSP which seeks to increase water supply reliability, improve conjunctive use, reduce overdraft and achieve sustainability in this critically overdrafted basin. The proposed 'FIROMAR' pilot project will integrate Forecast Informed Reservoir Operations (FIRO) and Flood Managed Aquifer Recharge (FloodMAR) concepts.

FIRO is a flexible water management approach that uses data from watershed monitoring and improved weather and hydrologic forecasting to help water managers selectively retain or release water from reservoirs Like New Hogan on the Calaveras River in a manner that can adapt to weather extremes and that leverages advancements in the science of meteorological and hydrologic forecasting in order to reduce flood risk and potentially increase water supply availability. Flood-MAR is an integrated and voluntary resource management strategy that uses floodwaters resulting from, or in anticipation of, rainfall or snowmelt events for groundwater recharge on agricultural lands, working landscapes, and managed natural lands, including refuges, floodplains, and flood bypasses. Combining the concepts has the potential to substantially increase both flood risk reduction and water reliability benefits, and increase the regions ability to respond to drought and climate change. The proposed pilot project would leverage the learning from related efforts in the Merced basin and on the Russian River; and further document how FIRO and FloodMAR work better when integrated.

Study Area

The Department of Water Resources (DWR) anticipates that the Calaveras River and New Hogan Reservoir will be profoundly impacted by climate change over the next 50 years.

Analyses from the 2017 Central Valley Flood Protection Plan (CVFPP) estimate that a future 200-year event could result in uncontrolled spilling from the reservoir on the order of 3 times the downstream channel capacity. New Hogan Dam, owned by the U.S. Army Corps of Engineers (USACE), provides flood protection to the City of Stockton as well as water for irrigation, drinking, and hydroelectric power. Its outflow discharges to the Mormon Slough system where it travels 30-miles downstream and flows directly through the heart of downtown Stockton, CA with a population of over 300,000 residents. The SEWD owns the conservation pool which is used for conjunctive use of groundwater and the conserved water stored in the conservation pool. New Hogan Reservoir and the Mormon Slough system have the attributes to be a prime candidate for an innovative FIROMAR pilot study that integrates FIRO and Flood-MAR concepts as part of a system-wide, climate resilient solution that would provide multiple benefits to the surrounding disadvantaged community. Existing natural conveyance and canals within the SEWD are used to deliver surface water and deliver it to lands appropriate for recharging and storage in the groundwater basin.

Objectives

Project alternatives to be evaluated will seek to incorporate the following objectives:

- Reduce flood risk to downtown Stockton
- Increase climate resilience in the Mormon Slough system
- Integrate forecast-informed reservoir operations (FIRO) at New Hogan Reservoir, identify flood risk and water supply opportunities both with or without structure changes to outlet works and emergency spillway
- Capitalize on excess flood flows from New Hogan Reservoir to enhance managed aquifer recharge (Flood-MAR) opportunities on nearby agricultural lands, including additional in-lieu, direct recharge and/or spreading opportunities.
- Identify the existing conveyance, need for expansion or creation of new facilities
- Improve water supply reliability
- Enhance riparian habitat along the Mormon Slough channel; evaluate other habitat restoration, improvement or enhancement opportunities
- Investigate re-activation of the "Old Mormon Channel" as a multi-benefit flood bypass
- Improve recreation opportunities along the Mormon Slough channel

The first critical step in this process is to firm of the project partners~~, develop~~, develop a more detailed scope of work~~, leverage~~, leverage multiple local funding sources, and seek state and federal funding that can advance this important effort. It is estimated that the initial feasibility-level evaluation will~~,~~ identify needed capital facilities and operational alternatives, screen alternatives, and establish solid plans for project and program implementation.

Problem Identification

The following provides a brief description of the issues facing New Hogan Reservoir, the Mormon Slough system, Stockton, and the ESJ groundwater basin covered by the GSP.

Increased Flood Risk Due to Climate Change

DWR's 2017 CVFPP estimates that climate change may have extreme impacts on New Hogan Reservoir and the downstream Mormon Slough system. Without modifications at the reservoir, the CVFPP study estimates that within 50 years a 200-year storm event would send New Hogan Dam into an uncontrolled spill that would result in a 38,000 cfs flow at its downstream control point of Bellota. This magnitude of flow is approximately 3 times the 12,500 cfs channel capacity at Bellota, and about 2.4 times the 16,000 cfs channel capacity of the lower Mormon Slough system which runs through Central Stockton.

New Hogan Reservoir Deficiencies

The 2017 CVFPP study estimated it would take approximately 42,000 acre-feet (42 TAF) of new flood storage at New Hogan to accommodate a future 200-year climate change event. Logistics of the necessary structural improvements that would be needed to accomplish this have not been fully studied. The potential of non-structural mitigation measures, such as FIRO, also have not been fully analyzed at New Hogan. New Hogan Dam was built in 1964~~ and its outdated rule curve is geared for a traditional, snowpack driven system which is predicted to be altered due to climate change~~.

Commented [JH3]: Inaccurate. Per the *New Hogan Dam and Lake Calaveras River, California – Water Control Manual*, dated June 1983, "more than 90 percent of the annual precipitation occurs from November through April." "Precipitation usually occurs as rain below 4,000 feet elevations. Above 4,000 feet, precipitation may occur as snow, although winter storms often bring rain above 4,000 feet." 5% or less of the New Hogan Lake watershed area is above 4,000 feet.

Lack of Climate Resiliency for Existing SPFC Levees

The Mormon Slough system includes over 30 miles of State Plan of Flood Control (SPFC) levees including levees along the Stockton Diverting Canal, and the Calaveras River which reduce flood risk for the highly urbanized areas of North and Central Stockton. These levees do not currently meet the State's 200-year urban level of protection (ULOP) under existing hydrologic conditions. Future climate change is anticipated to further reduce the level of protection provided by these SPFC levees.

Critically Overdrafted Groundwater Basin

DWR has identified the Eastern San Joaquin Groundwater Basin as a critically overdrafted basin as under the Sustainable Groundwater Management Act (SGMA) criteria. Continuation of present overdraft conditions ~~would~~ will likely result in significant adverse water supply, environmental, social, and/or economic impacts. The GSP estimated that 80 KAF/yr is ~~is~~ needed to achieve sustainability and identified additional conjunctive use opportunities within the SEWD GSA footprint. Lands within the project area are suitable for spreading and recharge of floodwater. There is a potential to better manage the flood and conservation pools in New Hogan to achieve flood risk reduction and increase water available for recharge.

Commented [JH4]: Per the latest hydrologic model update for the GSP, shouldn't this reference 34KAF/yr average?

Commented [JH5]: Which lands are these? Most of the land with SEWD and adjacent the Mormon Slough and old Calaveras River is orchard, specifically cherries and walnuts. Not sure what submergence issues are for cherry rootstock, but walnuts are highly susceptible to root rot and phytophthora when submerged for extended periods of time, resulting in crop loss.

Severely Disadvantaged Community with Limited Local Funding Capabilities

The vast majority of the population that would benefit from the *New Hogan Reservoir Climate Resiliency and Multi-Benefit Flood Risk Reduction Feasibility Study* resides in areas in and around Stockton that are designated by the State of California as "severely disadvantaged" in which median household incomes are less than $43,000 per year. The ability of the region to raise local revenues is an ongoing economic ~~justice issue~~challenge.

Project Features

The *New Hogan Reservoir Climate Resiliency and Multi-Benefit Flood Risk Reduction Feasibility Study* will look to evaluate the costs, benefits, and feasibility for several key project elements, or a combination thereof, including:

New Hogan Reservoir Forecast Informed Reservoir Operations (FIRO)

Evaluation of non-structural reservoir reoperation at New Hogan is initially seen as having potential to be one of the most cost-effective tools for providing climate resilience to the Mormon Slough system and to downtown Stockton. Converting New Hogan's operations to FIRO needs to be explored further to assess its effectiveness and feasibility.

New Hogan Reservoir Storage Augmentation

As discussed in the 2017 CVFPP's Basin Wide Feasibility Study (BWFS), New Hogan Reservoir would require approximately 42 TAF of additional storage capacity to mitigate the future increase in reservoir inflows for the 200-year climate change (year 2064) flood event. The cost, logistics, and feasibility of this structural option needs to be evaluated further and vetted with stakeholders.

New Hogan Reservoir Flood-MAR Diversions

As part of an ongoing effort to explore conjunctive use opportunities, and in coordination with the Eastern San Joaquin Groundwater Sustainability Plan, ~~.~~ ~~T~~the evaluation ~~with~~ will quantify water available for recharge with and without structural and operational changes (e.g.; revise rule curve, spillway facilities), both with and without climate change. This would include evaluation of existing or expanded conveyance and diversion facilities to move water to direct, in-lieu or spreading lands where recharge can increase groundwater storage. Preliminary maps of recharge potential are available. It would include outreach to growers to identify private land owners willing and able to take water for recharge purposes. Farm economic, on-farm facility improvements, incentives and agronomic impacts and benefits will be evaluated. Water is currently conveyed in canals and natural channels and opportunities to use the natural and man-made infrastructure studied.

Mormon Bypass Channel

The Mormon Slough system includes the "Old Mormon Channel" which is an approximately 6-mile channel segment at the downstream end of the Mormon Slough system which was the original alignment of Mormon Slough prior to the construction of the Stockton Diverting Canal in 1910. Conceptual studies have looked at re-activating the Old Mormon Channel and utilizing it as a flood bypass as well as for riparian habitat enhancement and recreational opportunities.

Conceptual work to date has looked at installing a control structure at the confluence of Mormon Slough and the Stockton Diverting Canal to divert up to 1,200 cfs to the Old Mormon

Channel. Habitat restoration as well as bike trails and walking paths would make this a valuable multi-benefit asset for the surrounding disadvantaged community.

Improvements to Existing SPFC Levees

The existing SPFC levees within the Mormon Slough system need to be evaluated through the lens of DWR's 200-year Urban Levee Design Criteria (ULDC) to identify deficiencies and improvements needed to bring this highly urbanized system up to the State's Urban Level of Protection (ULOP) as identified in Senate Bill 5 (2007). Levee improvements on the existing SPFC facilities need to be coordinated in conjunction with proposed improvements at New Hogan Reservoir.

Multi-Benefit Opportunities

Flood risk reduction and climate resiliency will be a key goal of the proposed study, but multi-benefit opportunities are abundant in the Mormon Slough system. The project features to be evaluated include non-structural measures, Flood-MAR opportunities, water supply benefits, ecosystem restoration elements, and recreation opportunities. These multiple benefits will all be serving severely disadvantaged areas of San Joaquin County and the City of Stockton.

Table 1 provides an overview of the benefits that are associated with the various project features to be evaluated as part of the *New Hogan Reservoir Climate Resiliency and Multi-Benefit Flood Risk Reduction Feasibility Study*.

Table 1. Multi-Benefits associated with project features to be evaluated as part of the *New Hogan Reservoir Climate Resiliency and Multi-Benefit Flood Risk Reduction Feasibility Study*.

Project Feature	Flood Risk Reduction	Climate Resilience	Non-Structural Measures	Flood-MAR	Water Supply Reliability	Ecosystem Restoration	Recreation Enhancement	Benefits to Severely Disadvantaged Community
New Hogan Reservoir Forecast Informed Reservoir Operations (FIRO)	♦	♦	♦	♦	♦	♦		♦
New Hogan Reservoir Storage Augmentation	♦	♦		♦	♦		♦	♦
New Hogan Reservoir Flood-MAR Diversions	♦	♦		♦	♦			♦
Mormon Bypass Channel	♦	♦				♦	♦	♦

Commented [ZM[6]: Need line for natural and existing canal conveyance

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Memorandum

To: Scot A. Moody, General Manager
From: Justin Hopkins, Assistant General Manager
Date: September 7, 2020
Re: High Voltage Electrical System Repairs

Background

The Stockton East Water District (District) owns several hundred feet of overhead electrical power lines (OHE) that transmit high voltage power to the High Service Pump Station (HSPS) and, 74-01 and 74-02 wells. The OHE to underground connection for HSPS was identified as a 'hot spot' during the March 1-5, 2021 high voltage inspections. The District contracted with B&B High Voltage Line Construction (B&B) to correct the 'hot spot' issue and perform an inspection of the District's OHE facilities. 60,362.50

Summary

On August 13, 2021 B&B repaired the HSPS OHE to underground connection and inspected the District's OHE facilities. During the OHE inspection, B&B determined five of the District's OHE power poles were severely degraded, with the worst of the poles only having about a one-inch wall thickness. The poor condition of the OHE power poles presents significant risk from downed power lines and through extended loss of utility power should a catastrophic failure occur.

B&B submitted a bid to perform all the necessary repairs to the OHE facilities, including replacement of the five dilapidated power poles. The bid cost is $54,875 and proposes to reuse two used power poles previously removed from the HSPS OHE circuit when the poles were upgraded.

Recommendation

Staff recommends the Board authorize the General Manager to sole source B&B High Voltage Line Construction and execute a contract for $54,875 plus a 10% contingency for a total approval of $60,362.50. B&B was the lowest bidder for the recent OHE repair and inspection work, is most familiar with the proposed work, and is ready to perform the work upon contract approval. B&B was also the lowest bidder for the previous replacement of two power poles and the current pricing is consistent with the prior replacement cost of $30,412.40. The FY21-22 budget includes $80,000 in funding for high voltage repair work.

HIGH VOLTAGE LINE CONSTRUCTION

POLE INSPECTION REPORT

August 13, 2021

Stockton East Water District

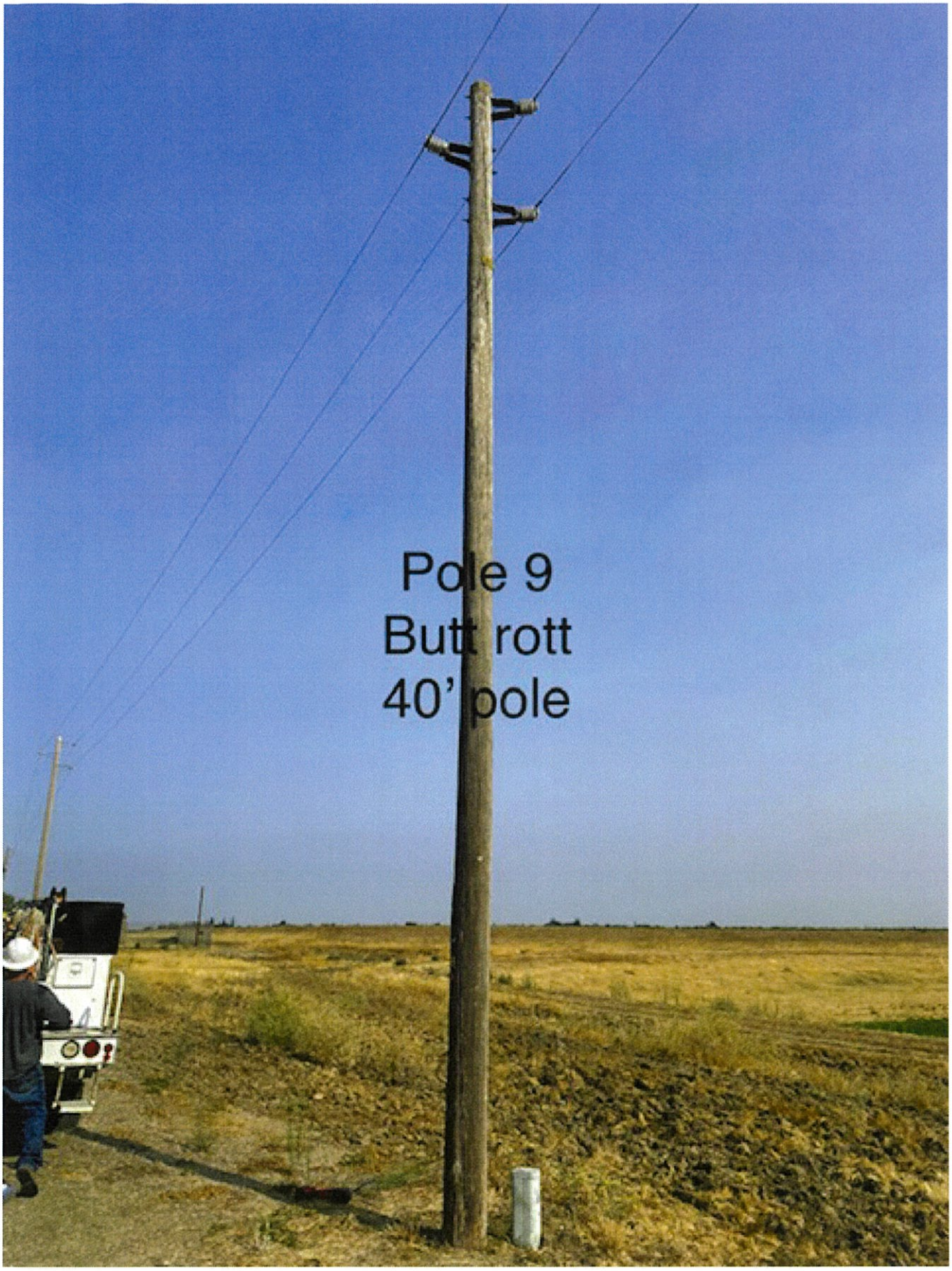
6767 E. Main Street, Stockton, CA 95216

POLE No.		NOTES
1	Recloser	Good - test and visual Loose hardware on control box & recloser No visibility reflective strips
2	Line & Buck	Good - test and visual No visibility reflective strips
3	Tangent	Good - test and visual Missing "High Voltage" signs No visibility reflective strips
4	Tangent	Good - test and visual No visibility reflective strips
5	Two Circuits Line & Buck	Good - test and visual Missing guy guard No visibility reflective strips
6	Tangent	Good - test and visual No visibility reflective strips
7	Tangent	Good - test and visual Missing "High Voltage" signs No visibility reflective strips
8	Tangent	Good - test and visual Missing "High Voltage" signs No visibility reflective strips
9*	Tangent	Interior rot 3.5"-4" of good shell, suggest replacement Missing "High Voltage" signs No visibility reflective strips
10	Tangent	Good - test and visual - *tractor hit pole, took off small chunk of pole, but ok* Missing "High Voltage" signs No visibility reflective strips
11	Tangent with Riser	Small amount of interior rot on north side of pole Small amounts of tracking at brace bolt (sign of electrical arch), suggest taking closer look at/may want to change out insulators and cutouts No visibility reflective strips
12	Tangent	Good - test and visual Missing "High Voltage" signs No visibility reflective strips

13	Tangent	Good - test and visual Missing "High Voltage" signs No visibility reflective strips
14	Tangent	Small amount of interior rot at ground level – 5'-6' good shell Idle ground wire Missing "High Voltage" signs No visibility reflective strips
15	Tangent	Small amount of interior rot at ground level - 5'-6' good shell Idle ground wire Missing "High Voltage" signs No visibility reflective strips
16*	Tangent	Interior rot 3.5"-4" of good shell, suggest replacement Large cracks midway up pole Missing "High Voltage" signs No visibility reflective strips
17*	Tangent	Interior rot 3.5"-4" of good shell, suggest replacement Missing "High Voltage" signs No visibility reflective strips
18	Riser	Good - test and visual Missing "High Voltage" signs No visibility reflective strips
19*	Dead-end	Excessive Interior rot only 1"-2" of good shell, suggest replacement No visibility reflective strips
20	Tangent	New pole all checks good
21	Tangent	New pole all checks good
22*	Double Riser/ Double Circuit	Excessive Interior rot only 1"-2" of good shell, suggest replacement No visibility reflective strips

****No Visibility Reflective Strip on any of the poles we checked.**
Utility pole reflective visibility strips are a simple, cost-effective way to make utility poles and similar objects easier to see by reflecting light from the sun or vehicle headlights.

****Missing "High Voltage" warning signs on majority of poles checked.**
High Voltage Signs should be **posted in any location with voltage over 600 volts**, per OSHA. Post High Voltage Signs to inform others to keep out, high voltage overhead, or not to enter into high voltage area. Protect your workers from electrocution with bold High Voltage Signs and enforce safety in your workplace.


Pole 9
Butt rott
40’ pole


16


Pole 22

Memorandum

TO: Scot A. Moody – General Manager
FROM: Justin Hopkins – Assistant General Manager
Darrel Evensen – District Engineer
DATE: September 1, 2021
RE: Alternative Project Delivery Methods

BACKGROUND

Design-Bid-Build (DBB) is still the most common delivery vehicle for facility construction. Alternative project delivery methods may make sense depending on the complexity of the project, schedule and the owner's capabilities. Page 4 shows the most common project delivery methods utilized in the United States.

Of the alternative project delivery methods, Construction-Management-At-Risk (CMAR) and Design-Build (DB) are two of the most successful alternatives. DB typically involves large-scale projects over $100 million dollars with a large DB construction company. CMAR has been utilized successfully on less expensive projects throughout California, Nevada and other regions.

Construction-Management-At-Risk (CMAR) evolved from the traditional DBB model as a means to overlap the design and construction phases and obtain constructability input during the design phase of a project.

Under the CMAR model:

1. The **owner contracts separately** with a **designer** and a **construction manager/general contractor**
2. The owner contracts with an engineer to provide complete design documents including specifications and plans
3. The owner selects a CMAR contractor to perform "at risk" construction management services and construction work in accordance with the specifications and plans, for a fee and reimbursable costs

"At risk" means that the CMAR contractor is responsible for delivery of the project for the agreed upon cost. Generally, the **owner selects and contracts with the engineer first, and then the construction manager in the early phases of the design (usually somewhere between 30 percent to 50 percent completion), thus allowing the CMAR contractor to provide review and comment on the constructability of the design, as well as the sequencing and scheduling of the project**. The objective of the constructability review is to

have open discussions between the engineer and CMAR contractor early in the design phase to identify areas of cost savings and construction efficiencies.

At the time of negotiation and construction contracting, the **CMAR contractor guarantees the maximum price of the project and the project schedule to the owner**. The CMAR contractor also assumes all construction risk related to its works.

Under the CMAR scenario, performance risk remains with the owner and engineer, and construction quality and compliance with the design documents remains with the CMAR contractor.

The following table shows the features, benefits and challenges using CMAR as a project delivery method:

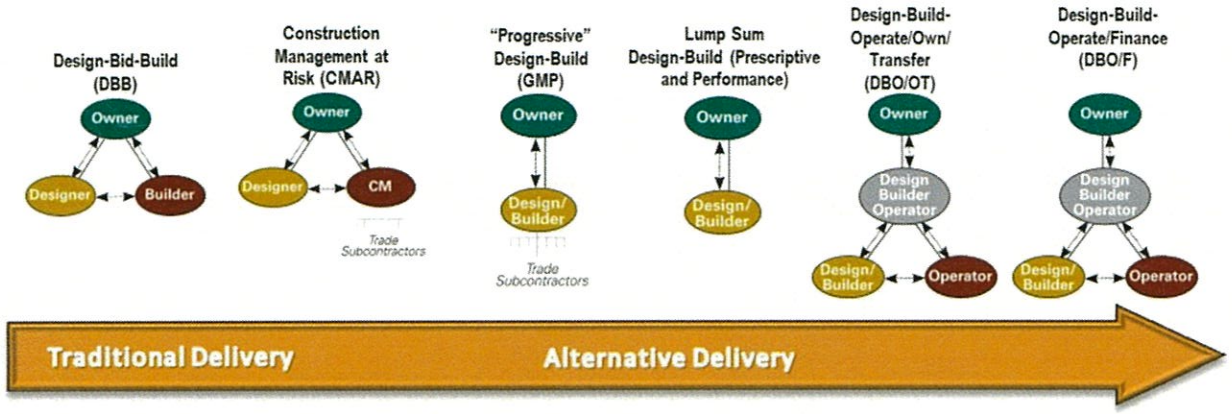
Features, benefits and challenges of the Construction Management-at-Risk alternative project delivery approach

Features	Benefits	Challenges
Engineer and CMAR work collaboratively	Owner and contractor input during design	Multiple points of responsibility for entire project
CMAR typically self-performs some aspects of the project and sub-contracts and competitively bids the other elements of the project	Opportunity to eliminate redundant construction and contract administration duties (5-10% of total project cost)	Owner warranties design documents
Engineer typically provides oversight services, on behalf of the owner, during construction	Provide single responsibility for construction phase of project	Quality control (price-based selection)
CMAR holds construction contracts and bears construction risk	Owner typically gets competitively bid price for some or most elements of construction	Quality and completeness of design factor construction price
CMAR supplies construction manager, superintendents, clerks, etc.	Expedited project delivery schedule	Less opportunity for cost savings than Design-Build
CMAR performs services for lump sum or guaranteed maximum price (GMP)	Owner's risk is limited	No significant cost savings over Design-Bid-Build
CMAR responsible for project performance, cost, and schedule	Owner's risk is reduced	Owner involvement required for cost negotiation and acceptance of schedule

RECOMMENDATION

Staff recommends to continue with the standard Design-Bid-Build (DBB) method for the Sodium Hypochlorite disinfection process since the design is closing in on 90% complete and the District will not realize a significant cost savings utilizing Design/Build (DB) or Construction-Management-At-Risk (CMAR). However, for the future ozone process that is estimated at $16M, Staff recommends that CMAR be utilized to limit the District's risk and provide owner and contractor input during the design and construction.

Spectrum of Alternative Project Delivery Options



STOCKTON EAST WATER DISTRICT

PROVIDING SERVICE SINCE 1948

Request for Proposals

For a

Electrical Motor Control Center Replacement

(MCC-2M System)

Dr. Joe Waidhofer Water Treatment Plant

September 7, 2021

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Memorandum

To: Scot A. Moody, General Manager
From: Juan Vega, Finance Director
Date: September 1, 2021
Re: USBR New Melones O&M Charges in a Drought Year

Background:

In years where water supply available to contractors from New Melones Lake is cut back by the United States Bureau of Reclamation (USBR), the charges for O&M for the Central Valley Project (CVP) tend to be higher. This is because less contractors take water and thus there are less contractors to share in that cost, even if the overall O&M cost remains unchanged CVP-wide.

The last time this situation came about (in 2015) the District took water after the beginning of the USBR fiscal year and incurred much higher O&M charges that would normally be incurred driving per AF costs way up.

Summary:

*For the USBR fiscal year spanning 10/01/2014 to 09/30/2015, Stockton East Water District (SEWD) took 1,845 AF of irrigation water and 9,286AF of M&I from New Melones. The original charges were $35,447.30 for irrigation water and $190,909.41 for M&I water. Upon true up from the USBR, the allocated O&M charges were $249,167.04 for irrigation water and $572,717.99 for M&I. The effective O&M cost per AF became much higher to the District at $135.05/AF for irrigation and $61.68/AF for M&I. This summary can be seen in Figure 1:

Figure 1

CVP Division	AF	Original O&M Cost	Original Cost/AF	Final O&M Cost	Final O&M Cost/AF
Irrigation	1,845	$ 35,447.30	$ 19.21	$ 249,167.04	**$ 135.05**
M&I	9,286	$ 190,909.41	$ 20.56	$ 572,717.69	**$ 61.68**

* This was simply the O&M cost, in addition to this irrigation also paid $10.07/AF in CVPIA Restoration Costs and $0.23/AF in Trinity PUD charges while M&I paid $20.14/AF in CVPIA Restoration charges and $0.23/AF in Trinity PUD charges. This brings the grand total costs per acre-foot to $145.35 for irrigation and $82.05 for M&I as in Figure 2:

Figure 2

CVP Division	Final O&M Cost/AF	CVPIA Restoration Charges/ AF	Trinity PUD Charges/AF	Final CVP Cost/AF
Irrigation	$ 135.05	$ 10.07	$ 0.23	**$ 145.35**
M&I	$ 61.68	$ 20.14	$ 0.23	**$ 82.05**

Conclusion:

CVP O&M Charges significantly increase in years of limited water supply. The aim of this memo is to provide information to the Board of Directors which will hopefully aid decisions regarding water supply and water usage by the District in the upcoming year. The fiscal year for the USBR begins October 01.

CENTRAL VALLEY PROJECT
ANNUAL ACCOUNTING ANALYSIS
NEW MELONES D&R
STOCKTON-EAST WD, 4-07-20-W0329 **FBMS Customer No: 6000003700**
FISCAL YEAR 2015
PERIOD ENDING SEPTEMBER 30, 2015

Ln No	Part -1	Irrigation Class 1	Irrigation Class 2	M&I	Total	Amounts
1	**Water Charges (Contract Rate * A/F)** [1]					
2	Water Charges per Fiscal Year (IRR: 1,845 AF, M&I: 9,286 AF)	$ 35,447.30	$ -	$ 190,909.41	$ 226,356.71	
3						
4	**Total Water Charges**	$ 35,447.30	$ -	$ 190,909.41	$ 226,356.71	$ 226,356.71
5						
6	**Contractor Allocated O&M Expense - FY 2015** [2]					
7	PUE Cost	$ 25,962.17	$ -	$ 140,858.92	$ 166,821.09	
8	Annual O&M Expense	$ 209,220.11	$ -	$ 342,000.74	$ 551,220.85	
9	Extraordinary O&M Expense	$ 13,984.76	$ -	$ 23,820.64	$ 37,805.40	
10	Interest (M&I Contractors Only)	$ -	$ -	$ 66,037.69	$ 66,037.69	
11	**Total O&M Costs**	$ 249,167.04	$ -	$ 572,717.99	$ 821,885.03	
12						
13	**Contractor Cost Recovery - FY 2015** [3]					
14	ARRA Recovery	$ -	$ -	$ -	$ -	
15	Deficit Recovery	$ -	$ -	$ -	$ -	
16	Construction Recovery	$ -		$ -	$ -	
17	**Total Recovery**	$ -	$ -	$ -	$ -	
18						
19	**Total Allocated Expense and Cost Recovery**	$ 249,167.04	$ -	$ 572,717.99	$ 821,885.03	$ 821,885.03
20						
21	**FY 2015 (Deficit)/Surplus:**	$ (213,719.74)	$ -	$ (381,808.58)	$ (595,528.32)	**$ (595,528.32)**
22						
23		67		94		
24		115 A/F		41.1		
25	**Part -2 Charges and Payment Analysis** [4]					

Description	Charges	Amount Paid	Overpayment	Underpayment
Water Payments				
Water Charges (IRR)	$ 35,447.30	$ 30,461.13		$ (4,986.17)
Water Charges (M&I)	$ 190,909.41	$ 339,255.02	$ 148,345.61	
Applied to FY 2014 IRR O&M Deficit			$ (143,359.44)	
			$ 4,986.17	**$ (4,986.17)**
CVPIA payments				
Restoration Charges (IRR)	$ 18,579.15	$ -		$ (18,579.15)
Restoration Charges (M&I)	$ 187,020.04	$ 332,907.56	$ 145,887.52	
FY 2013 Water Overpayment Applied				$ 18,579.15
			$ 145,887.52	**$ -**
TPUD payments				
TPUD	$ 2,560.13	$ 4,188.53	$ 1,628.40	
			$ 1,628.40	**$ -**

Please mail payments to: **Bureau of Reclamation**
Mid-Pacific Region
PO Box 301502
Los Angeles, CA 90030-1502

Please include this analysis with your payment.

10-5211.0 F94

If you have any questions please contact Mr. Jesus Reynoso at (916) 978-5362 or Email at jreynoso@usbr.gov

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STOCKTON EAST WATER DISTRICT

PROVIDING SERVICE SINCE 1948

Request for Bids for

TUNNEL OUTLET FLUME PROJECT

Bids Due:

September 23rd
at
Stockton East Water District
6767 East Main Street
Stockton, CA 95215

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EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

TECHNICAL ADVISORY COMMITTEE MEETING

AGENDA

Thursday, September 2, 2021
1:00 p.m. – 2:30 p.m.
Call-In Information Provided Below

Note to participants: Members of the public, most staff and other GSA/GWA persons may participate via the teleconference line only. Thank you for your understanding.

Call to Order/Roll Call

A. Discussion/Action Items
   1. August 5, 2021 Meeting Notes (Attachment)
   2. SWRCB Comments on GSP (Attachment)
   3. Model Update and Status
      a. Input Data
      b. Model Outputs
   4. TSS and Other Shallow Wells Status
   5. DREAM Project Monitoring and Status and Monitoring Plan Revision
   6. AR Rights Hearing – GWA Policy Statement Ideas for GWA and GSA Members to Adopt (Attachment)
   7. Grant Projects Status and Ideas for Pending Grants
      a. WaterSMART Drought
      b. DWR FIROMAR Pilot Project
      c. Corp 7001 Funding
      d. Other
   8. RFQ for the Accounting Framework and Funding/Financing Alternatives Analysis (Attachment)
   9. DWR FSS Work Plan
   10. DWR Updates and Report – Chelsea Spier

B. Next Meeting: October 6, 2021 at 9:30 a.m.

C. Adjournment

NOTICE: Coronavirus COVID-19

Based on guidance from the California Department of Public Health and the Governor's Office, the Teleconference information below is being provided for your participation in the September 2nd Technical Advisory Committee Meeting.

Microsoft Teams meeting

Join on your computer or mobile app

Click here to join the meeting

Or call in (audio only)

+1 209-645-4071,,462862761# United States, Stockton

Phone Conference ID: 462 862 761#

Find a local number | Reset PIN

Learn More | Meeting options

Once connected, we request you kindly mute your phone.

Proposed Next Regular Meeting
Wednesday, October 6, 2021
9:30 a.m. – 11:00 a.m.

Weekly Water Report	As of: Aug. 30, 2021	As of: Sept. 6, 2021	
New Hogan (NHG) TOC	**317,100 AF**		
Storage:	99,158		AF
Net Storage Change:	-2,435		AF
Inflow:	15		CFS
Release:	177		CFS
New Melones (NML) Allocation	**75,000 AF**		
Storage:	906,987		AF
Net Storage change:	-19,369		AF
Inflow:	236		CFS
Release:	1,752		CFS
Source: CDEC Daily Reports			

Goodwin Diversion (GDW)		
Inflow (Tulloch Dam):	1,740	CFS
Release to Stanislaus River (S-98):	351	CFS
Release to OID (JT Main):	736	CFS
Release to SSJID (SO Main):	332	CFS
Release to SEWD:	213	CFS
Total Release	1,632	CFS
Source: Tri-Dam Operations Daily Report		
Farmington Dam (FRM)		
Diverted to SEWD:	N/A	CFS
Diverted to CSJWCD:	0	CFS
Source: USACE WCDS Hourly Report		

Surface Water Used		
Irrigators on New Hogan:	9	
Irrigators on New Melones:	4	
Out-Of-District Irrigators:	0	
DJWWTP Production:	33	MGD
North Stockton:	0	MGD
South Stockton:	7	MGD
Cal Water:	26	MGD
City of Stockton DWSP Production:	23	MGD

District Ground Water Extraction			
74-01	0	0	GPM
74-02	0	0	GPM
North	0	0	GPM
South	0	0	GPM
Extraction Well # 1	0	0	GPM
Total Well Water Extraction	**0**	**0**	**GPM**

Note: All flow data reported here is preliminary and subject to revision.

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United States Department of the Interior

BUREAU OF RECLAMATION
P.O. Box 25007
Denver, CO 80225-0007

September 2, 2021

IN REPLY REFER TO:
84-27133
1.3.11

VIA ELECTRONIC MAIL ONLY

Stockton East Water District
Attn: Mr. Justin Hopkins
6767 E. Main St
Stockton, CA 95215-1527

Subject: Funding Opportunity No. R21AS00289 – WaterSMART: Applied Science Grants for Fiscal Year 2021 – Application Review Status, Your Application Titled, Eastside Groundwater Use Measurement Project (ASG-20)"

Dear Mr. Hopkins:

The Bureau of Reclamation is pleased to inform you that your application for Applied Science Grants Fiscal Year 2021 funding was among those receiving the highest ratings and is now being considered for award of a financial assistance agreement. The success of the WaterSMART Program depends on collaboration with partners to improve water management.

Your application included a request for $58,000 to complete your proposal titled, "Eastside Groundwater Use Measurement Project." Reclamation anticipates awarding Federal funds in the amount of $58,000 for your proposed project. In working with you to develop your financial assistance agreement, Reclamation will closely review the activities outlined in your proposal to ensure that all activities are eligible for funding and consistent with Federal laws and agreements, and that the proposed costs are allowable under financial assistance regulations. If some costs or activities are determined to be ineligible or unallowable, Reclamation will work with you to refine the scope of work and budget for the project.

In the coming months, we will coordinate with you to gather the information needed to enter into a financial assistance agreement. Please note that this letter is not a final commitment of funding and all pre-award clearances and approvals must be obtained as described in Section E.2.5 of the Funding Opportunity. In addition, Reclamation must have sufficient evidence prior to award that non-Federal cost share will be available. The final funding amount may be adjusted if necessary.

Please be advised that your application has been ranked, in part, based on your description of the expected benefits of your project and the non-Federal cost share percentage identified in your application. Selection criteria placed an emphasis on benefits to water supply reliability and the identified need for your project for use by water managers. Revisions to the scope of the project or changes to the non-Federal cost share percentage identified in your application can be made only after

Reclamation determines that revisions would not impact the overall ranking or the expected benefits of the project.

To demonstrate the success of the program and to provide a guide for future applicants, we will post copies of all successful Applied Science Grants applications as examples on Reclamation's website. While this generally does not raise any issues, we find it prudent to provide successful grant applicants with an opportunity to redact any sensitive information from their proposals prior to posting them on our website. As a rule, we remove the SF-424s; however, if there are any other items you would like to request be redacted, please let me know by Wednesday, September 29, 2021. If we do not hear from you by this date, we will assume that there are no objections to posting the full application.

If you have any questions about the program, please contact Ms. Avra Morgan at aomorgan@usbr.gov or 303-445-2906. We will contact you in November 2021, or slightly later if necessary, to set up an initial call to discuss the timeline for the development and award of your financial assistance agreement. Thank you for your interest and participation in the WaterSMART Program. We look forward to working with you.

Sincerely,

MATTHEW REICHERT

Digitally signed by MATTHEW REICHERT
Date: 2021.08.30 07:45:00 -06'00'

Matthew Reichert
Grants Officer