



REGULAR BOARD MEETING

MAY 10, 2022



**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, MAY 10, 2022 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 (Legal Counsel Zolezzi) & Roll Call**
- B. Consent Calendar (None)**
- C. Public Comment (Non-Agenda Items)**
- D. Scheduled Presentations and Agenda Items**
 - 1. Action Item: Stockton East Water District Board of Directors Reconsidered the Circumstances of the State of Emergency and Determine that
 - (i) The State of Emergency continues to directly impact the ability of the members to meet safely in person and/or
 - (ii) State or Local Officials continue to impose or recommend measures to promote social distancing.
 - 2. Minutes
 - a. Minutes 04/22/22 Special Meeting 01
 - b. Minutes 04/26/22 Regular Meeting 03
 - 3. Warrants
 - a. Fund 70 – Administration Fund 09
 - b. Fund 71 – Water Supply Fund 11
 - c. Fund 89 – Fish Passage Improvements Fund 13

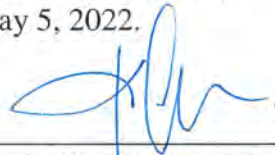
3. Warrants – <i>continued</i>	
d. Fund 91 – Vehicle Fund	15
e. Fund 94 – Municipal & Industrial Fund	17
f. Summary	19
g. Short Names/Acronym List	21
h. SEWD Vehicles & Heavy Equipment	23
4. Stockton East Water District – Eastside Satellite Evapotranspiration Project Memo, 05/10/22	25
5. Resolution No. 22-23-02 – Stockton East Water District Appointing an Interim General Manager and Board Secretary	33
E. Committee Reports	
1. San Joaquin Farm Bureau Federation Water Advisory Committee Meeting, 04/26/22	35
2. Eastern San Joaquin Groundwater Authority Technical Advisory Committee (TAC) Meeting, 05/05/22	37
3. San Joaquin County & Delta Water Quality Coalition Meeting, 05/09/22	
F. Report of the General Manager	
1. Water Supply Report as of 04/25/22	39
2. Information Items	
a. Material Included, but Bound Separately from Agenda Packet:	
1. <u>San Joaquin Farm Bureau Federation – 2022 Political Candidate Meet & Greet, 05/11/22</u>	
2. <u>ACWA Regions 2 & 4 Tour & Program: Flood Control, Hydro, & Water Reliability: The Whole Dam Thing, ACWA.com, 05/05/22</u>	
3. <u>Valley Could See A “Mass Migration” Of Farmworkers As Land Is Fallowed Under State Groundwater Law, Sjwater.org, 05/02/22</u>	
3. Report on General Manager Activities	
a. ACWA State Legislative Committee Meeting, 04/29/22	41
b. Stockton East Water District Activities Update	
G. Director Reports	
1. Association of California Water Agencies – 2022 Spring Conference and Exhibition, 05/03/22 – 05/05/22	43

- G. Director Reports – *continued***
2. Greater Stockton Chamber of Commerce Monthly Mixer – Oakmont of Brookside, 05/05/22
- H. Communications**
- I. Agenda Planning/Upcoming Events**
1. Eastern San Joaquin Groundwater Authority Steering Committee Meeting, 8:30 a.m., 05/11/22
2. Eastern San Joaquin Groundwater Authority Board Meeting, 10:30 a.m., 05/11/22
3. Stockton Area Water Suppliers (SAWS) Meeting, 1:00 p.m., 05/13/22
- J. Report of the Counsel**
1. Closed Session - Existing Litigation
Stockton East Water District vs. City of Stockton, et al.
Government Code 54956.9 (a)
2. Closed Session - Potential Litigation
Government Code 54956.9 (c) – one case
- K. Adjournment**

Certification of Posting

I hereby certify that on May 5, 2022 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 May 5, 2022.



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 SPECIAL MEETING OF THE BOARD OF DIRECTORS
OF STOCKTON EAST WATER DISTRICT WAS HELD AT THE DISTRICT OFFICE
6767 EAST MAIN STREET, STOCKTON, CA
ON THURSDAY, APRIL 22, 2022 AT 9:30 A.M.

A. PLEDGE OF ALLEGIANCE AND ROLL CALL

The special meeting came to order at 9:30 a.m.

Present at the District were Directors Atkins, Cortopassi, McGurk, Sanguinetti and Watkins. Also present were Manager Moody, Assistant Manager Hopkins and District Engineer Evensen.

B. CONSENT CALENDAR (None)

C. PUBLIC COMMENT (None)

D. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Smith Canal Tour

a. Departure from Dr. Joe Waidhofer Water Treatment Plant, 9:30 a.m.

b. Boat & Walking Tour, 10:00 p.m.

Directors Atkins, Cortopassi, McGurk, Sanguinetti, Watkins, Manager Moody, Assistant Manager Hopkins and District Engineer Evensen attended the April 22, 2022 Smith Canal Tour. Elizabeth Schlegel and David Carr, KSN, Inc. guided a tour of Smith Canal for the Board of Directors and District Staff; the boat and walking tours provided information regarding the Smith Canal Gate Project.

F. REPORT OF THE COUNSEL (None)

The meeting concluded at 1:40 p.m.

F. ADJOURNMENT

President Watkins adjourned the meeting at 1:41 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

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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, APRIL 26, 2022 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 Watkins 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, Assistant Manager Hopkins, Finance Director Vega, District Engineer Evensen, Administrative Services Manager Carido, Administrative Clerk Feliciano and Consultant Barkett. Present via teleconference was Legal Counsel Zolezzi.

B. CONSENT CALENDAR

1. President Watkins requested the Board to make an emergency addition to the agenda. Manager Moody reported due to the cancellation of the May 3, 2022 Regular Board Meeting the California Public Employees' Retirement System warrants are due for payment before the next scheduled Regular Board Meeting on May 10, 2022.

A motion was moved and seconded to add an item to the April 26, 2022 Regular Board Meeting Agenda as Agenda Item No. D-2k, California Public Employees' Retirement System (Emergency Item)

Roll Call:

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

2. President Watkins requested the Board to make an emergency addition to the agenda. Manager Moody reported due to the cancellation of the May 3, 2022 Regular Board Meeting, the Out of District Non-Potable Water Service Agreement for Curtoni Ranches, LLC should be executed before the next scheduled Regular Board Meeting on May 10, 2022 with the Board's approval.

A motion was moved and seconded to add an item to the April 26, 2022 Regular Board Meeting Agenda as Agenda Item No. D-6, Curtoni Ranches, LLC – Out of District Non-Potable Water Service Agreement (Emergency Item)

Roll Call:

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

A. PUBLIC COMMENT (None)

B. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Minutes 04/19/22 Regular Meeting

A motion was moved and seconded to approve the amended April 19, 2022 Regular Board Meeting minutes, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nays: 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 89 – Fish Passage Improvements Fund
- e. Fund 91 – Vehicle Fund
- f. Fund 94 – Municipal & Industrial Fund
- g. Payroll
- h. Summary
- i. Short Names/Acronym List
- j. SEWD Vehicles & Heavy Equipment
- k. California Public Employees’ Retirement System

Director McGurk inquired on the expense on page 9, line item 4 for AllConnected Inc. for the Cisco smart renewal in the amount of \$9,891.50. Assistant Manager Hopkins replied the expense covers software and hardware support. Director McGurk inquired on the expense on page 9, line item 3 for Accruent LLC for the annual technical support renewal in the amount of \$7,966.30. Assistant Manager Hopkins replied the expense is for SCADA System software. Director McGurk inquired the about the spill sites on the expense on page 9, line item 8 for Cal-Sierra Pipe, Inc. for pipe for pressure transducers at five spill sites in the amount of \$9,865.82. Assistant Manager Hopkins replied the spill sites are the locations where the water leaves the conveyance system; pipe is used to install pressure transducers to measure the levels at dam’s at the end of the system. Discussion followed regarding the use of pipe at the spill site locations. Director McGurk inquired on the expense on page 9, line item 7 for Boutin Jones Inc. for legal services in the amount of \$8,570 and inquired about mediation fees. Legal Counsel Zolezzi replied the mediator has not billed for their services yet and will likely bill at the end of mediation.

Director Cortopassi inquired on the expense on page 11, line item 50 for Conco-West for the Cotta-Ferreria Dam Replacement Project in the amount of \$141,802.24 and inquired if the gate was included in the expense. Assistant Manager Hopkins replied no, the gate was purchased separately. Discussion followed regarding the Cotta-Ferreria Dam Replacement Project.

Director Atkins inquired on the expense on page 11, line item 57 for Gridless Power Corporation for security equipment for Water Supply System in the amount of \$8,543.88 and inquired if the security is for Mormon Slough. Manager Moody replied yes and commented that equipment is live.

A motion was moved and seconded to approve the April 26, 2022 Warrants, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nays: None

Abstain: None
Absent: None

3. Stockton East Water District – Cotta-Ferreira Dam Replacement Project Update
Manager Moody provided the Board with an update regarding the Cotta-Ferreira Dam Replacement Project. Manager Moody provided the Board with a slideshow of pictures of the completed Cotta-Ferreria Dam Replacement Project as well as the repair on Potter Creek Dam. Discussion followed regarding the pictures shown. This item was for information only.
4. Cancellation of May 3, 2022 Stockton East Water District Regular Board Meeting

A motion was moved and seconded to approve Cancellation of the May 3, 2022 Regular Board Meeting.

Roll Call:

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

5. DRAFT – Statement of Consistency Pursuant to Execute Order N-7-22 and Findings of Fact Stockton East Water District Groundwater Sustainability Agency (New Well)
Manager Moody provided the Board with the Draft - Statement of Consistency Pursuant to Execute Order N-7-22 and Findings of Fact Stockton East Water District Groundwater Sustainability Agency (New Well). Manager Moody reported according to the Executive Order requiring all Groundwater Sustainability Agencies to look at all well permits to determine if they are concurrent with the Groundwater Sustainability Plan (GSP). Manager Moody added the provided Resolution is being used as a recommendation to the County indicating whether it does or does not fit into the GSP; the County decides whether to approve or deny the permit. Manager Moody recommend the Board to approve the Draft - Statement of Consistency Pursuant to Execute Order N-7-22 and Findings of Fact Stockton East Water District Groundwater Sustainability Agency (New Well).

Director McGurk inquired about the language on page 35, Section 3.1, 2nd sentence – “However, as projects are implemented and basin operations are modified, sustainable groundwater management will be achieved, and levels will stabilize on a long-term average basis.” Manager Moody replied the long-term average is what is needed to meet sustainability.

President Watkins inquired about the “New Wells” sub-heading and if that is accurate. Legal Counsel Zolezzi replied the “New Wells” sub-heading is incorrect and will be removed as the Resolution applies to all well permits. President Watkins inquired if modifications are included in the Resolution. Legal Counsel Zolezzi replied yes because modifications require a permit; every time a referral is given a Resolution has to be adopted which would allow for personalized Resolutions. President Watkins inquired if there are any well permits pending in our Groundwater Sustainability Agency. Manager Moody replied no.

A motion was moved and seconded to approve the Statement of Consistency Pursuant to Execute Order N-7-22 and Findings of Fact Stockton East Water District Groundwater Sustainability Agency, as amended.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins

Nayes: None
Abstain: None
Absent: None

6. Curtoni Ranches, LLC – Out of District Non-Potable Water Service Agreement
Manager Moody provided the Board with information on the Out of District Non-Potable Water Service Agreement for Curtoni Ranches, LLC. Manager Moody reported all new Out of District Agreements are presented to the Board for approval.

A motion was moved and seconded to approve the Out of District Non-Potable Water Service Agreement for Curtoni Ranches, LLC for APN 187-310-010, as presented.

Roll Call:

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

E. COMMITTEE REPORTS

1. San Joaquin County Flood Control and Water Advisory Commission Meeting, 04/20/22
Director McGurk attended the April 20, 2022 San Joaquin County Flood Control and Water Advisory Commission Meeting. Director McGurk reported the meeting was held in-person at the Ag Center. Director McGurk reported he was re-elected as Chairman for 2022 for a one-year term. Director McGurk reported a presentation by Lowell Allen, Office of Emergency Services; Lowell Allen reported there is an Ag Drought Task Force that meets monthly. Director McGurk reported discussion regarding well permitting and small water systems regulation; Matt Zidar invited staff from the Environmental Health Department to present and answer questions. Director McGurk reported having staff from the Environmental Health Department was worthwhile and constructive for the Commissioners to voice what they had to say. Director Cortopassi inquired if there was discussion regarding the well permitting process. Director McGurk replied the subject was not discussed as it relates to the Groundwater Sustainable Agencies. Director McGurk reported he commented the GSA should be able to recommend the denial of a permit and it should be accepted by the County for them to deny the permit; decisions to recommend approval or denial will be made based on SGMA and gaining sustainability in their GSA. Director McGurk reported Supervisor Winn discussed the half-cent sales tax effort; Supervisor Winn will present the details of the half-cent sales tax at the next Commission meeting. Discussion followed regarding the half-cent sales tax effort. Director McGurk reported there was public comment regarding the arundo donax plant which is found in the Calaveras River; detracting from flood control and absorbing water to stay alive. Director Panizza inquired if the plant is native. Director McGurk replied no, the plant is considered invasive. The next meeting is scheduled for May 18, 2022.

F. REPORT OF GENERAL MANAGER

1. Water Supply Report as of 04/25/22
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 130,610 AF in storage at New Hogan Reservoir. Current releases are set at 149 cfs. Current release at Goodwin Dam to Stanislaus River are set at 1,444 cfs and release to all water users are set at 57 cfs. There are 3 irrigator(s) on New Hogan, 1 irrigator(s) on New Melones and

0 Out-of-District irrigator(s). The water treatment plant is currently processing 40 mgd. The City of Stockton is currently processing 12 mgd.

2. Information Items:

Manager Moody noted item: F2a-1 and F2a-2.

3. Report on General Manager Activities

a. Central Valley Project Water Association – Executive & Financial Affairs Committee, 04/22/22

Finance Director Vega attended the April 22, 2022 Central Valley Project Water Association – Executive & Financial Affairs Committee. Finance Director Vega reported the meeting was a reschedule from the original meeting date of April 15, 2022. Finance Director Vega reported a presentation given by Brooke White regarding the CVPIA Finance Plan. Finance Director reported updates on the current activities including the reclassification of expenses; the agencies affected will be contacted soon although the changes are not significant. Finance Director Vega reported the extraordinary O&M Project is complete. The next meeting is scheduled for May 20, 2022.

b. Stockton East Water District Activities Update

Manager Moody reported he and Assistant Manager Hopkins attended Central San Joaquin Irrigation District's Annual Meeting; the Annual Meeting is held to set their rates which are not changing from the previous year. Manager Moody reported there were several questions regarding the merge between Central San Joaquin Water Conservation District and Stockton East Water District; Central Director Veldstra voiced his concern about forfeiting their water right and it should not be done to merge with another District. Manager Moody reported there were questions geared toward Stockton East Water District that he and Assistant Manager Hopkins answered; landowners expressed concern about what the future holds and the amount of time the merging process has taken.

Manager Moody reported he and Assistant Manager Hopkins met with the consultant working on the projects in the Groundwater Sustainability Plan; multiple agencies are claiming the same water to complete projects in their GSP and the State is pushing back asking the Groundwater Sustainability Agencies to prove what water is theirs and accurately add those projects to their GSP for sustainability. Manager Moody reported they working with the consultant to avoid GSP issues with regard to the projects planned for sustainability. Manager Moody reported the District is in better shape than other districts in the area in regards to dependability at the New Hogan Reservoir for water. Manager Moody reported the consultant was being conservative in their approach to classify the District as providing zero water in critically dry year; this year is critically dry and are still providing water. Manager Moody commented he will be speaking with the consultant to have them change the "zero" to another figure or percentage but it cannot be zero as that is not accurate.

Manager Moody reported he attended an Office of Emergency Services meeting and the same Environmental Health Department Staff were in attendance as those that attended the San Joaquin County Flood Control and Water Advisory Commission Meeting. Manager Moody reported discussion regarding the Groundwater Sustainability Agencies recommendation for well permitting process. Discussion followed regarding the presentation given by Environmental Health Department Staff. This item was for information only.

G. DIRECTOR REPORTS

1. Stockton East Water District Special Board Meeting – Smith Canal Gate Tour, 04/22/22
Directors Atkins, Cortopassi, McGurk, Sanguinetti, Watkins, Manager Moody, Assistant Manager Hopkins and District Engineer Evensen attended the April 22, 2022 Stockton East Water District Special Board Meeting – Smith Canal Gate Tour. Director Cortopassi reported Chris Neudeck, KSN, Inc. shared with the attendees the construction restrictions of the Project due to environmental requirements/standards which translated into a higher cost. Director Cortopassi reported the Project includes the Smith Canal as well as where it meets the San Joaquin River. Director Cortopassi commented the project and the location were much larger than he had realized. Discussion followed regarding the location and Smith Canal Gate Project details. Director Sanguinetti reported the Project is meant to improve the levees for the 200 Year Flood Plan with the addition of the Smith Canal Gate; the levees could break without the addition of the gate. Director Sanguinetti added the gate is planned to stay open and will be closed at low tide as well as during a rain event to store water. Director Atkins reported there are environmental regulations with the fish that have made completing the project challenging. President Watkins added the tour was informative in regards to similar project specifics that the District will use in the future. Consultant Barkett inquired if there was discussion regarding water quality. President Watkins replied no, water quality is not in their scope of work.

H. COMMUNICATIONS (None)

I. AGENDA PLANNING/UPCOMING EVENTS

1. San Joaquin Farm Bureau Federation Water Advisory Committee Meeting, 5:00 p.m., 04/26/22
2. ACWA State Legislative Committee Meeting, 10:00 a.m., 04/29/22

J. REPORT OF THE COUNSEL

1. Closed Session - Existing Litigation
Stockton East Water District vs. City of Stockton, et al.
Government Code 54956.9 (a)
2. Closed Session - Personnel
Government Code 54957

President Watkins adjourned the meeting to closed session at 1:19 p.m. to discuss closed session agenda items. District staff, with the exception to Manager Moody, were excused from the closed session meeting at 1:44 p.m. The regular meeting reconvened at 1:55 p.m., with no reportable action.

K. ADJOURNMENT

President Watkins adjourned the meeting at 1:56 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		ADMIN FUND 70		
1 American West Communications, L.P.	10-5141-0	June 2022 Gopher Ridge tower rental for the WS maintenance	597.01	June 2022
2 Anthony Barkett	10-5155-0	June 2022 Consulting fees-Efforts to protect NM water	5,500.00	June 2022
3 Blueprint Express Corporation	10-5116-0	Professional services for Sodium Hypochlorite system prj 2210	809.77	SAC-18488
4 CCT Telecommunications, Inc.	10-5141-0	New phone system	8,267.00	198182
5 ControlPoint Engineering Inc.	10-5146-0	HSPS PLC & SCADA upgrade labor & materials	51,255.79	SEWD-22008/SEWD-22009
6 Dameron Medical Group Inc.	10-5102-0	Pre-employment exam for new employees (5) & DOT exam-WS	1,000.00	4006K8236
7 De Lage Landen Financial Services, Inc	10-5124-0	05/15/22-06/21/22 SEWD printers (5+finance) lease	1,415.57	5/4/22
8 Doyce Boesch	10-5155-0	June 2022 Consulting services by Doyce Boesch	7,000.00	June
9 FedEx	10-5126-0	Shipping charges for OSHA questionnaires	15.28	7-739-92364
10 Fishbio	10-5174-0	Mar 2022 Consulting Calaveras RST monitoring	13,279.27	4027
11 Fishbio	10-5174-0	Mar 2022 Consulting Calaveras Redds	10,888.73	4026
12 Fishbio	10-5174-0	Mar 2022 Compliance Monitoring and reporting	6,059.88	4043
13 Fishbio	10-5174-0	Mar 2022 Consulting Calaveras O.mykiss abundance	3,800.50	4025
14 Fishbio	10-5174-0	Mar 2022 Consulting Calaveras HCP	1,902.50	4023

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		ADMIN FUND 70		
15 Fishbio	10-5174-0	Mar 2022 Consulting Bellota Fish Ladder	597.45	4022
16 Grainger, Inc.	10-5101-0	Shade visors & neck shades (9) for heat injury prevention	330.63	9275731868/9276052413
17 Grainger, Inc.	10-5101-0	Water cooler for heat prevention	125.05	9274958439
18 Halo Branded Solutions Inc./Channing Bete Inc.	10-5132-0	2022 Earth Day promotional items-activities & coloring books	9,544.52	9934146
19 iPromoteu	10-5132-0	2022 Earth Day promotional items-markers, seed bookmarks	3,888.61	1956653GRY
20 Jan-Pro of the Greater Bay Area	10-5154-0	May 2022 monthly janitorial services (price increase)-Admin Bldg	390.00	12035
21 Kristin V. Coon	10-5131-0	Water Conservation Education June 2022	15,583.32	2022-06
22 Manuel Verduzco	10-5104-0	Parking ACWA/JPIA leadership essential for the water Indust	12.00	89595
23 Quadient Leasing USA Inc./Neopost Leasing	10-5126-0	Rental Charges Neopost Machine 05/29/22-08/28/22	577.15	N9386669
24 Quill Corporation	10-5125-0	Office supplies ordered on 04/07/22-04/28/22	1,833.22	24806798-160450005
25 Red Wing Shoe Store	10-5101-0	2022 Safety shoe allowance for Veldstra/Cervantes/Bonnesen	667.04	20220421014569
26 Smart & Final	10-5125-0	Board rooms supplies ordered on 04/08/22	449.33	4031310013502
27 Stockton Windustrial Co.	10-5147-0	Aluminum plate to install communication towers for prj 2224	1,915.88	345460 01
28 The Office City	10-5125-0	Office supplies ordered on 04/08/22 & 04/22/22	174.49	IN-1741890/IN-1741067
29 US Bank-USPS	10-5126-0	US postage-Notice to T&T for disinfection project contract	8.70	Carido4194-042222a
30 US Bank Corporate Payment Systems	10-5127-0	Meeting expense on 03/22/22-04/19/22	2,151.35	Carido4194-042222bceglmor
31 US Bank -FreeConferenceCall.com	10-5141-0	Virtual phone (03/29/22-04/28/22)	9.00	Carido4194-042222d
32 US Bank-Zoom	10-5141-0	Audio conferencing-zoom (04/04/22-05/03/22)	106.00	Carido4194-042222f
33 US Bank-Verizon	10-5141-0	Deployment of district issued cell phones for WS operators	180.00	Carido4194-042222hi
34 US Bank-GoDaddy.com	10-5143-0	2 year SSL renewal	189.98	Carido4194-042222j
35 US Bank-Amazon	10-5141-0	Accessories for district issued cell phones	161.57	Carido4194-042222k
36 US Bank-Walmart	10-5125-0	Office supplies ordered on 04/14/22	54.74	Carido4194-042222n
37 US Bank-Staples	10-5125-0	Office supplies ordered on 04/18/22	174.36	Carido4194-042222p
38 US Bank-BRP Boxshop	10-5125-0	Office supplies ordered on 04/18/22	29.92	Carido4194-042222q
39 Verizon Wireless Multi-line account	10-5141-0	Wireless charges from 03/26/22-04/25/22	2,238.18	9905048047
40 Verve Networks	10-5142-0	Computer and engineering workstation replacement	4,634.42	23574
41 Verve Networks	10-5141-0	Installation of new phones	123.75	23738
42 Water Education Foundation	10-5105-0	2022 Tour sponsorship of the foundation's Bay-Delta tour	4,500.00	2022 Sponsorship
43 Water Education Group	10-5132-0	2022 Earth Day promo items-Books, bookmarks, shammy towels	4,211.95	22-100
44 Wisconsin Lighting Lab, Inc	10-5147-0	Pole & fasteners for Lagorio Radio antenna pole prj 2224	3,646.28	00034249
		ADMIN FUND 70 TOTAL	\$170,300.19	

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		WATER SUPPLY FUND 71		
45 4RF USA Inc	10-5206-0	465 MHz radio and mounting bracket for Bellota TOC SCADA	3,348.91	INU06050
46 Cal-Sierra Pipe, Inc.	10-5202-0	Flap gate for Potter Creek-4000 pump	1,404.95	110000018102-001
47 Cal-Sierra Pipe, Inc.	10-5203-0	Corrugated pipe for Stagnaro Low Water Crossing project	181.23	110000018535-001
48 Capital Rubber Co., Ltd.	10-5217-0	Hose, sealant, fittings, and nozzle for Funck Rd prj 2228	139.16	S152368
49 Capital Rubber Co., Ltd.	10-5213-0	Parts to service water quality monitor system at Farmington	15.07	S152526
50 ControlPoint Engineering Inc.	10-5213-0	Shirley Gulch SCADA integration 03/10/22-03/29/22	12,920.00	SEWD-22010
51 Dokken Engineering	10-5202-0	Routine maintenance CEQA service 02/22/22-03/31/22	7,700.85	40838
52 HDS White Cap Construction Supply	10-5202-0	Fasteners and paint for Cotta-Ferreria Dam replacement prj 2237	100.84	10015915402
53 Hixco	10-5203-0	Fasteners for Cotta-Ferreira Dam replacement prj 2237	118.41	440330
54 Holt of CA	10-5203-0	Wheel loader & thumb excavator rental for Stagnaro Low Water	17,119.05	T3410501/T3021104
55 J. Milano Company, Inc.	10-5203-0	Channel for Stagnaro Low Water Crossing project	269.78	518962
56 J. Milano Company, Inc.	10-5217-0	Pipe fittings for Funck Rd traveling trash rack prj 2228	69.76	512557
57 McCrometer, Inc.	10-5203-0	Fittings and meters for meter replacement prj 2235	22,483.53	560680 RI/561848 RI
58 McMaster-Carr Supply Co	10-5213-0	Grease for maintenance on Birdcage trash rack	54.21	73917438

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		WATER SUPPLY FUND 71		
59 PG&E 3117175782-1	10-5213-0	Electricity 03/18/22-04/18/22 Escalon Bellota trash rack	377.97	31171757821-04/19/22
60 PG&E 4252412479-1	10-5213-0	Electricity 03/17/21-04/17/22 Tulloch Rd (Goodwin Dam)-NMCF	13.70	42524124791-04/18/22
61 PG&E 6722855250-0	10-5202-0	Electricity 03/25/22-04/25/22 Mosher Slough Headworks	18.12	67228552500-04/26/22
62 Rain For Rent, Inc.	10-5203-0	Rental of 8 inch hose & fittings-Stagnaro Low Water Crossing	4,576.56	1725028/1725046
63 Real Tech Inc	10-5206-0	TOC instrumentation for Bellota TOC SCADA	10,932.00	20U07173
64 Rent A Toilet	10-5203-0	Rental of portable restroom for Stagnaro Low Water prj 2232	210.00	42217
65 Rubicon Systems America Inc.	10-5203-0	Slip meter & flow meter for Cotta-Ferreira Dam	2,750.00	102416
66 Rubicon Systems America Inc.	10-5202-0	Battery pack for Gotelli Bridge (2)	640.04	102382
67 Rubicon Systems America Inc.	10-5202-0	Service call for PC-2 Blade meter (solar drive board issue)	380.00	102383
68 Stockton Windustrial Co.	10-5213-0	Fittings for repairs to Farmington dam	18.43	345945 01
69 UniFirst Corporation	10-5213-0	Weekly laundry service 04/21/22 & 04/28/22	115.54	370 1389196/3701390780
70 US Bank-Escalon Feed and Supply	10-5204-0	Straw for McGurk's earth dam	565.69	Donis5937-042222a
71 US Bank-Zylstra Auto & Hardware	10-5203-0	Sealant for Cotta-Ferreira dam replacement prj 2237	30.13	Donis5937-042222b
72 US Bank-Radwellinte	10-5202-0	Inverter for actuator at Bellota	478.17	Higares1333-042222b
73 US Bank-AAA Ornamental Inc	10-5203-0	Metal and tubing for Cotta-Ferreira dam replacement prj 2237	211.08	Mendez5476-042222b
74 USACE Finance and Accounting	10-1710-0	New Hogan Contract water storage O&M 2022	1,110,365.64	80596
		WATER SUPPLY FUND 71 TOTAL	\$1,197,608.82	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
75 ECORP Consulting, Inc	10-5180-0	FISH SCREEN IMPROVEMENT FUND 89 Prof services for Bellota fish screen and passage-Mar 2022	18,722.50	96265
76 Fishbio	10-5180-0	Professional services for Bellota project Feb/March 2022	5,615.00	4034/4013
77 Kjeldsen, Sinnock & Neudeck Inc.	10-5180-0	Prof Services for the Fish Screen Improvement Proj Mar 2022	33,065.57	32698
		FISH SCREEN IMPROVEMENT FUND 89 TOTAL	\$57,403.07	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		VEHICLE FUND 91		
78 Autozone Stores Inc.	10-5182-0	Heater hoses, belt and coolant for repairs on Unit 36	128.58	4036760956
79 Big Valley Tractor	10-5182-0	Paint for maintenance on Unit 52	40.79	P03182
80 Holt of CA	10-5182-0	Parts to service and repair Unit 29	25.49	PS001096627
81 US Bank-Amazon	10-5343-0	Air hose for Unit 66	28.03	Cahoon8501-042222c
82 US Bank-Chevron	10-5182-0	Fuel for Unit#69	55.85	Moody3859-042222a
		VEHICLE FUND 91 TOTAL	\$278.74	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		MUNICIPAL & INDUSTRIAL FUND 94		
83 Atlas Copco Compressors LLC	10-5321-0	Electronic drain for air compressor in the filter gallery	459.30	1122036095
84 Carollo Engineers, Inc	10-5323-0	Prof. services through 03/31/22- Disinfection system design	9,778.01	FB21770-9
85 Ernesto Carranza	10-5341-0	Safety shoe reimbursement	249.83	4/28/22
86 Fastenal Company	10-5343-0	Tools for new WS crew-wrench kit / M18 fuel sawzall/impact kit	2,205.14	CASTC156060/240/200
87 Fastenal Company	10-5341-0	Gloves and batteries for power tools	77.58	CASTC156240
88 FedEx	10-5325-0	Shipping to send TOC analyzer for maintenance & repairs	514.60	7-733-22113
89 FGL Environmental	10-5308-0	Inorganic anlysis-Wet chemistry/Organic-TOC & EPA testing	212.00	233643A
90 FGL Environmental	10-5308-0	Coliform bacti monitoring sampled on 03/09/22-03/30/22	592.00	233397A-234236A
91 FGL Environmental	10-5308-0	Inorganic analysis-metals, total-As, total-Fe, Mn/wet chemistry	129.00	233760A/953/644/761
92 Fresno Oxygen	10-5344-0	Treatment plant consumables ordered on 03/28/22-04/04/22	607.67	62955078/9396/3694/5085
93 GPM Inc.	10-5321-0	Pump repair of surface wash 1 in the filter gallery	17,505.06	12807
94 Independence Drafting and Design LLC	10-5329-0	Drafting designs for sludge handling-sludge lagoon prj 2212	8,000.00	2214

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
MAY 10, 2022**

Vendor name	Account #	Description	Amount	Invoice No.
		MUNICIPAL & INDUSTRIAL FUND 94		
95 J. Milano Company, Inc.	10-5343-0	Shop tools ordered on 04/13/22 & 04/15/22	203.51	519877/519630
96 Jan-Pro of the Greater Bay Area	10-5326-0	May 2022 monthly janitorial services (price increase)-Ops Bldg	403.00	12035
97 JSP Communication & Engineering, Inc	10-5323-0	Prof services for MCC-2 rehab thru 03/29/22 prj 2209	6,255.00	220329-SEWD
98 Konecranes, Inc	10-5325-0	Installation of new thrust bearing on chlorine tank hoist	1,532.06	154651637
99 Larry's Tree Care	10-5324-0	Tree trimming near Admin parking lot	1,095.00	2828
100 McMaster-Carr Supply Co	10-5321-0	Hinge for ATS on High Service Pump station	107.46	76392406
101 PG&E 0908023195-5	10-5302-0	Electricity 02/18/22-04/20/22 WTP East Side Feeder	22,321.24	09080231955-04/26/22
102 PG&E 2544904013-5	10-5302-0	Electricity 03/22/22-04/20/22 TP HS @6749 E Main	91,152.32	25449040135-04/25/22
103 PG&E 7493068226-0	10-5302-0	Electricity 03/17/22-04/15/22 Outdoor Light-TP	11.71	74930682260-04/15/22
104 Platt Electric Supply Inc.	10-5343-0	Milliamp meter for electricians	899.70	2069969
105 Stockton Scavengers/Waste Management Corp	10-5324-0	40 yrd bin for waste disposal	540.97	0051768-0051-3
106 Stockton Windustrial Co.	10-5321-0	Tubing, valve, fittings, fasteners for feeder 6 & Surface Wash 1	265.33	345882 01/345830 01
107 Stockton Windustrial Co.	10-5323-0	Pipe fittings for Surge Tank air compr and rehab prj 2205	22.95	345349 01
108 Thatcher Company of CA	10-5301-0	Chlorine delivered on 04/13/22	11,730.00	2022250103102
109 Thatcher Company of CA	10-5301-0	Acidified alum delivered on 04/15/22-05/02/22	19,677.93	2022250103141/40/52/53
110 UniFirst Corporation	10-5342-0	Weekly laundry service 04/21/22 & 04/28/22	328.84	370 1389196/370 1390780
111 Univar USA Inc.	10-5301-0	Caustic soda delivered on 04/13/22 & 04/14/22	10,299.27	50164071/50164072
112 US Bank-Walmart	10-5343-0	Air compressor fittings	42.56	Cahoon8501-042222a
113 US Bank-The Home Depot	10-5343-0	Portable generator	567.71	Cahoon8501-042222b
114 US Bank-Paypal Tidewe Inc.	10-5341-0	Chest waders for new Water Supply crew	819.92	Cahoon8501-042222d
115 US Bank-Paypal FS.com	10-5326-0	Fiber jumper cables for maintenance	24.75	Cahoon8501-042222e
116 US Bank-Sportsman's Warehouse	10-5341-0	Hip Waders for electricians	140.58	Higares1333-042222a
117 US Bank-The Home Depot	10-5324-0	Herbicide/fertilizer for plant grounds maintenance	62.03	Mendez5476-042222a
		MUNICIPAL & INDUSTRIAL FUND 94 TOTAL	\$208,834.03	

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**STOCKTON EAST WATER DISTRICT
 INVOICES FOR BOARD PACKAGE
 MAY 10, 2022**

Fund Number	Fund Summary	AP Amount
Fund 70	Administration Fund	170,300.19
Fund 71	Water Supply Fund	1,197,608.82
Fund 89	Fish Screen Improvement Fund	57,403.07
Fund 91	Vehicle Fund	278.74
Fund 94	Municipal & Industrial Fund	208,834.03
	TOTAL FUND SUMMARY	\$1,634,424.85

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Short Names/Acronym List

ACH	Aluminum Chlorohydrate
ACWA	Association of California Water Agencies
Admin	Administration
Ads	Advertisement
AF	Acre Feet
AG	Agriculture
AR	Accounts Receivable
AWP	Alternative Work Program
CEQA	California Environmental Quality Act
Chgs	Charges
CM	Construction Management
COP	Certificate of Participation
CSDA	California Special District Authority
CSJWCD	Central San Joaquin Water Conservation District
CVPWA	Central Valley Project Water Association
CWS	California Water Services Company
DB	Distribution Box
DBCP	Dibromochloropropane
DDTS	Direct Distance Telephone Service
DL	Direct Line
EDB	Ethylene Dibromide
Educ	Education
ESA	Endangered Species Act
FCC	Federal Communications Commission
FCCU	Financial Center Credit Union
FOIA	Freedom of Information Act
FWPS	Finished Water Pump Station
GM	General Manager
HCP	Habitat Conservation Plan
HP	Hewlett Packard
HVAC	Heating, Ventilating Airconditioning
LD	Long Distance
LFC	Lower Farmington Canal
LT2	Long Term 2 -Enhanced Surface Water Treatment Rule
M&O	Maintenance & Operations
MCC	Master Control Center
MIB	Methylisoborneol
Misc.	Miscellaneous
mtg	Meeting
NH-	New Hogan
NM	New Melones
NH3-N	Ammonia
NMCF	New Melones Conveyance Facility
NWRP	New Water Reservoir Project
OBA	Oxygen Breathing Apparatus
PACL	Poly Aluminum Chloride
PM	Preventive Maintenance
Prof	Professional
PSM	Process Safety Management
PVC	Polyvinyl Chloride
RMP	Risk Management Plan
SCADA	Supervisory Control And Data Acquisition
SCBA	Self Contained Breathing Apparatus
SEWD	Stockton East Water District
SWRCB	State Water Resources Control Board
St	Street
T5	Water Treatment Operator Certificate Grade 5
Tel	Telephone
THM	Trihalomethane
TO	Task Order
TP	Treatment Plant
UFC	Upper Farmington Canal
UPS	Uninterrupted Power Supply
VAMP	Vernalis Adaptive Management Plan
VFD	Variable Frequency Drive
WMP	Water Management Plan
WQMS	Water Quality Monitoring System
WS	Water Supply
WSEP	Water Supply Enhancement Project
WTP	Water Treatment Plant

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Vehicles	
Unit 36 2004 Chevy Pickup 2500hd Silverado	Pickup Truck
Unit 37-2004 Jeep Grand Cherokee Laredo	Automobile
Unit 47 2008 Chevy Pickup Silverado 2500 4x4	Pickup Truck
Unit 49 2009 Ford Edge AWD - Ltd	Automobile
Unit 55 2010 Ford F150 Pickup	Pickup Truck
Unit 57 2011 Ford F150 Pickup Long Bed	Pickup Truck
Unit 64 2015 Ford F250 S-Duty 4wd	Pickup Truck
Unit 65 2015 Ford F250 S-Duty 4wd	Pickup Truck
Unit 66 2015 Ford F250 S-Duty 4wd	Pickup Truck
Unit 67 2015 Ford F250 S-Duty 4wd	Pickup Truck
Unit 69 2015 Ford F150 4x4 Supercrew Pickup	Pickup Truck
Unit 76 2020 Ford Escape	Automobile
Light equipment	
Genie GS 1930 Scissor Lift	Lift
Unit 70 2016 Cat Forklift	Forklift
Unit 58 2014 Polaris Ranger EV- Maintenance	Utility Vehicle
Unit 59 2014 Polaris Ranger EV- Maintenance	Utility Vehicle
Unit 60 2014 Polaris Ranger EV- Operations	Utility Vehicle
Unit 61 2014 Polaris Ranger EV- Water Supply	Utility Vehicle
Unit 62 2014 Polaris Ranger EV- Water Supply	Utility Vehicle
Unit 63 2014 Polaris Ranger EV- Operations	Utility Vehicle
Heavy equipment	
Mower-walker	Tractor
Unit 16 2003 Ford 450 -- diesel	Heavy Truck
Unit 26 1990 International Dump Truck	Heavy Truck
Unit 29 Caterpillar Backhoe	Heavy Equip.
Unit 31 1998 Freightliner Boom Truck 15 ton	Heavy Truck
Unit 38 John Deere 6420 Tractor	Tractor
Unit 41 Case Tractor 570mxt Turbo	Tractor
Unit 45 2008 Ford F650 Flatbed Truck (diesel)	Heavy Truck
Unit 48 2008 Chevy Kodiak C4500 (diesel)	Heavy Truck
Unit 52 Kubota Tractor	Tractor
Unit 53 2011 Kenworth T300 Dump Truck (dsl)	Heavy Truck
Unit 56 2010 Ford F450 Truck	Heavy Truck
Unit 73 2018 Caterpillar Backhoe	Heavy Equip.
Unit 74 2019 Ford F250 S-Duty 4wd	Pickup Truck
Unit 75 2019 Ford F250 S-Duty 4wd	Pickup Truck
Accessories	
Dive Boat	Accessory
Boat Trailer	Trailer
Allis-Chalmers Disc	Accessory
Pak Flail Mower (orange)	Accessory
Alamo Articulate Mower Attachment	Accessory
Landpride RCR2596 Rotary Mower	Accessory
Unit 30 Big Tex Equipment Trailer /25,900gwr	Trailer
Unit 34 2000 Cartaway Tank Trailer /6000gwr	Trailer
Unit 43 2007 Wells Cargo Trailer Model TW122	Trailer
Unit 44 1996 Genie Lift TZ-34/20 Knuckleboom	Trailer
Unit 50 6 Diesel Pump	Trailer
Unit 51 12 Diesel Pump	Trailer
Unit 68 2015 Welding Trailer	Trailer
Unit 71 2017 Utility Landscaping Trailer	Trailer
Unit 72 2002 Utility Trailer	Trailer

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Memorandum

To: Scot Moody, General Manager
From: Justin Hopkins, Assistant General Manager
Date: May 10, 2022
Re: Eastside Satellite ET Project – DCSE Professional Services Agreement

BACKGROUND:

The Stockton East Water District (District) Board of Directors (Board) approved funding within the Fiscal Year 2022-2023 (FY22-23) budget to perform an evapotranspiration (ET) study using satellite imagery. The budget included funding to evaluate ET data within the eastside of San Joaquin County. On April 13, 2021, the Board adopted Resolution 21-22-01, authorizing District staff to apply for a U.S. Bureau of Reclamation (USBR) WaterSMART Applied Science grant. The intent was to leverage approved District and San Joaquin County funding to perform an ET evaluation of the District, North San Joaquin Water Conservation District, and Central San Joaquin Water Conservation District (Eastside Agencies).

SUMMARY:

On May 3, 2022, the District received notification from the U.S. Bureau of Reclamation (USBR) of a final funding agreement to provide \$58,000 of grant funding toward the Eastside Satellite ET Project. The grant funding has a 50% cost sharing requirement that will be satisfied through the District's \$50,000 FY22-23 budget and \$9,125 from San Joaquin County via the approved Eastern San Joaquin Groundwater Authority budget. The total budget from all funding sources is \$117,125. The District has received a proposal from DSCE to perform a 2022 water use study through satellite imagery for the Eastside Agencies. The proposed cost of the study is \$116,080.

RECOMMENDATION:

District staff recommend the Board authorize the General Manager to approve a Professional Services Agreement with DSCE not to exceed \$116,080 and make all other approvals as necessary.

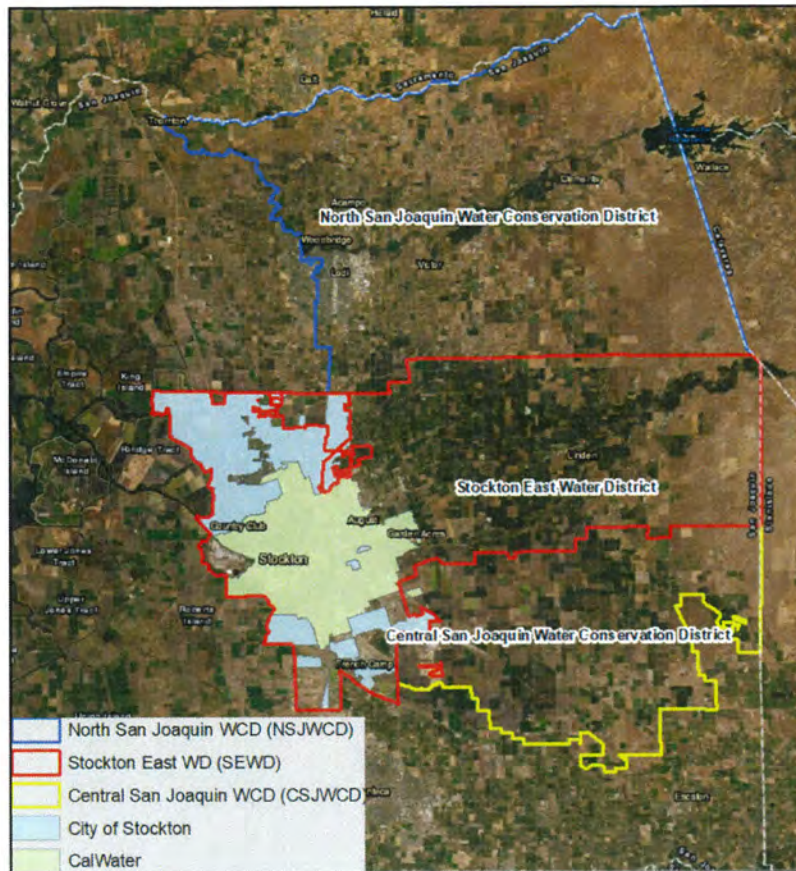


Figure 2. Stockton East WD (SEWD), North San Joaquin WCD (NSJWCD), and Central San Joaquin WCD (CSJWCD).

Note that the California Water Service (Cal Water) and City of Stockton service areas, shown as solid areas in Figure 2, are excluded from estimations.

Methodology, Data and Tools

GROWMAS System

GROWMAS is an analytical tool developed by DCSE, Inc. to automate the production of near-real-time crop water use maps, historical ET data, and Net-to-From Groundwater data. GROWMAS downloads the required input data (Landsat satellite imagery and weather data), runs the images through the METRIC™ model and calculates spatial actual evapotranspiration values. METRIC™ (Mapping Evapotranspiration at high Resolution using Internalized Calibration) is a satellite image processing model designed as an operational, engineering approach to retrieval of high-resolution ET images (30 meters) and was developed primarily for monitoring water consumption at field scales. METRIC™ was developed by Dr. Rick Allen and his colleagues at the University of Idaho. ET in METRIC™ is calculated using the surface energy balance, where total net radiation energy from the sun and sky represents total energy available at the surface to either warm the air (H), warm the ground (G), or transform liquid water into vapor (LE). LE (Latent heat flux) is converted into ET, expressed as a depth of water per time (Figure 3).

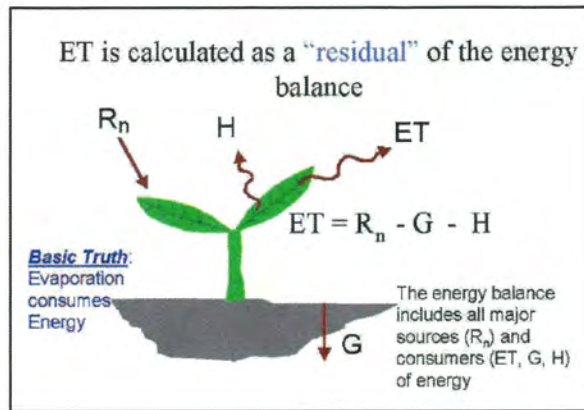


Figure 3 - The components of the Surface Energy Balance for ET: R_n = Net Radiation, G = Soil heat flux, H = Sensible heat flux

A few advantages of METRIC™ are:

- Calculates actual ET, which gives a more accurate estimation of water consumption and budgeting compared to traditional potential ET calculations, which use crop coefficients.
- METRIC™ does not require specification of crop types, irrigation method or irrigation practices, thus reducing time and costs.
- Due to the frequency of Landsat images and weather data available for current and historical periods, ET values can be compared spatially and temporally to analyze water use trends. Figure 4 shows an example image of a high spatial resolution (30 m) ET in agricultural fields estimated from the Landsat imagery.

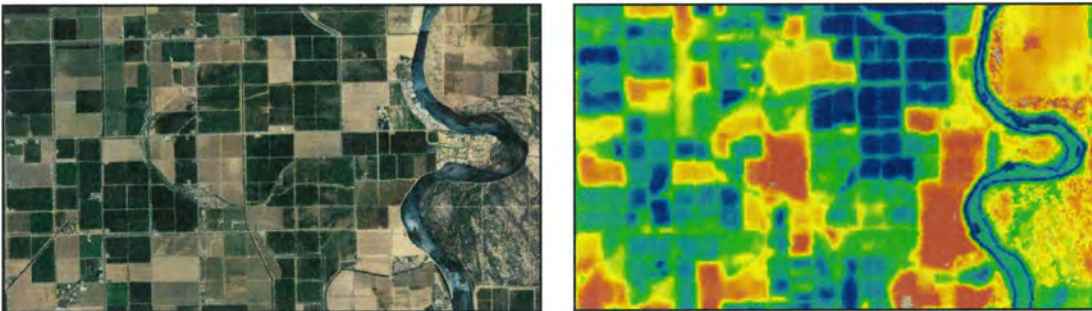


Figure 4 – Left: Landsat Image, Right: Calculated ET Image, at the instantaneous time of the satellite pass, 30m X 30m Pixel Sizes

Satellite Imagery

Multispectral Imagery from Landsat 8 and Landsat 7 with 30 m spatial resolution (30 meters by 30 meters pixel sizes) are used for the METRIC™ process. For this project, Imagery from Landsat 7 will be used as a backup if Landsat 8 data is missing. For Landsat 8, bands 2-7 provide data for the visible and near-infrared bands. Band 10 and Band 11 provide data for longwave (thermal) radiation. The METRIC™ modeling process relies on surface temperature data from the Landsat thermal band 10.

Actual ET cannot be computed for the regions covered by clouds or fog. Every Landsat image available throughout the project period is evaluated. The best quality Landsat images with minimal clouds are selected for processing. The project area is covered by the Landsat image scenes from 3 different paths, rows (Figure 5). Each path identifies a single trip the Landsat takes, and the rows are various portions of that path. Landsat scenes are available for free download from the United States Geological Survey (USGS) data center on 16-day intervals.



Figure 5 - Example of three Landsat 8 scenes in July 2020, covering the project area

Weather Data

The METRIC™ model also requires hourly weather station data, which “internally calibrates” the surface balance energy equation by computing reference ET values on the ground and focuses on agricultural landscapes. The following weather data are necessary for applying METRIC™:

- Wind speed at 2m (m/s)
- Precipitation (mm)
- Dew point Temperature (°C)
- Solar radiation (W/m²)
- Air temperature (°C)
- Relative Humidity (%)
- ETr (mm)

Throughout the project period, hourly and daily weather data are downloaded from data collected at three closest CIMIS Stations to SEWD, CSJWCD, NSJWCD. We anticipate using stations #262 (Linden), station #70 (Manteca), and station #242 (Staten Island), respectively. CIMIS data will be retrieved via the API at the same time Landsat data becomes available.

NTFGW

NTFGW is the net contribution to or extraction from groundwater. By comparing applied water (surface water delivery or groundwater), precipitation, runoff and evapotranspiration, NTFGW can be estimated for a region.

In addition to actual ET, GROWMAS will compute NTFGW spatially throughout the three water districts. GROWMAS incorporates the monthly estimated ET values with monthly surface water delivery and pumping data (if available), and spatial precipitation in the region to assess NTFGW and create groundwater pumping and recharge maps for each month. An example of NTFGW components can be seen in Figure 6.

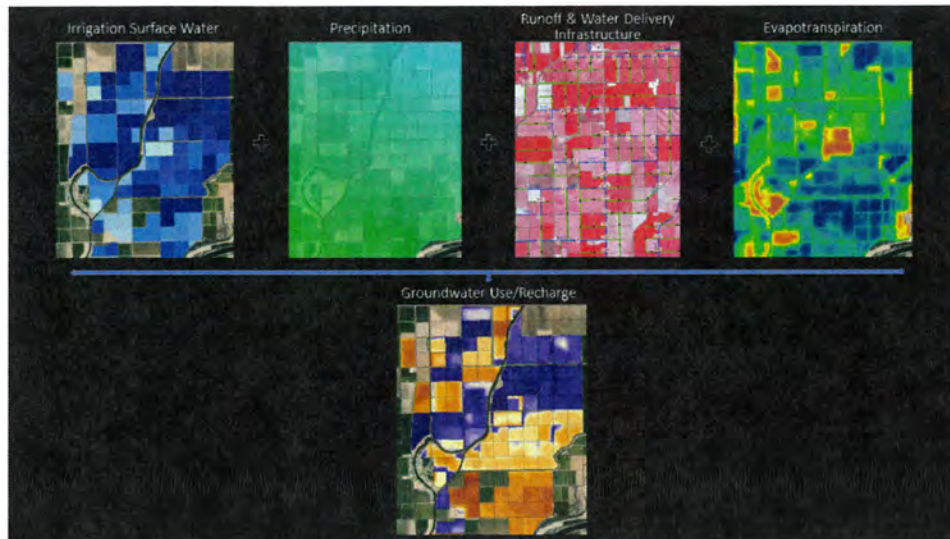


Figure 6 - NTFGW components

Tasks and Analytical Processes

Consultant shall perform the following tasks for twelve (12) months estimation of ET and NTFGW in each water district:

1. Set up a server for implementation of GROWMAS for three water agencies.
2. Running METRIC™ for ET estimation:
 - Download and process several model inputs such as imagery, and weather data.
 - Conduct METRIC™ model calibration process near the primary weather station within the images.
 - Run METRIC™ numerous sub-models, resulting in instantaneous actual ET estimation for every pixel within Landsat image at the time the satellite image is taken.
 - Run Interpolation tools to estimate the actual ET between dates that satellite images are available, and create daily ET raster files.
 - Generate total monthly and annual ET images.
3. Image Spatial Analysis and Data Analysis
 - Extract information from ET images, and estimate ET per crop type at the ag parcel level and summarize by water agency boundary.
 - Statistical data analysis and QC.
4. Groundwater Estimation
 - Process applied water (surface water delivery or groundwater) from the agency, and precipitation for each region.
 - Calculate Net To/From Groundwater values and generate groundwater images.
5. Publish and Upload Results
 - Publish GIS-based tabular and imagery results on a monthly basis.

Cost Estimation and Deliverables

Scope of Service

The consultant shall obtain all necessary data (except where specified) and develop the processes described in the **Tasks and Analytical Process** section to calculate ET and NTFGW for each water district’s service areas. Results will be calculated at the ag parcel level and summarized by the water agency boundary. The consultant can also provide ET/crop water use per crop type using any existing crop layer if requested. Time-series ET maps are published monthly to a cloud-based website dedicated to this project. Water districts will provide the parcel data and monthly water delivery data per parcel.

Cost Estimate

Task	Description	Deliverable	Cost Estimate 1st Agency	Cost Estimate 2nd Agency	Cost Estimate 3rd Agency	Total Three Agencies
Task 1	Server setup for GROWMAS Implementation	Cloud Server Setup	\$10,000	\$0	\$0	\$10,000
Task 2	Running METRIC™ for One Year for Entire SEWD	Pixel Based ET Maps from METRIC™	\$6,000	\$6,000	\$6,000	\$18,000
Task 3	Image Spatial Analysis, Data Analysis, QC	ET Per Parcel ET Charts for Crop Types	\$7,200	\$7,200	\$7,200	\$21,600
Task 4	Groundwater Estimation	NTFGW - Net To/From GW NTFGW Per Parcel/Field	\$11,520	\$11,520	\$11,520	\$34,560
Task 5	Presentation and Publishing	Publish on the Site	\$8,640	\$8,640	\$8,640	\$25,920
Cloud Server Costs and Maintenance (Estimated at \$500/month for 12 months)			\$6,000	\$0	\$0	\$6,000
Total 1st Year			\$49,360	\$33,360	\$33,360	\$116,080
Total 2nd Year			\$39,360	\$33,360	\$33,360	\$106,080
Total 3rd Year			\$39,360	\$33,360	\$33,360	\$106,080
Total of 3 Years			\$128,080	\$100,080	\$100,080	\$328,240

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RESOLUTION NO. 22-23-02

**A RESOLUTION OF THE BOARD OF DIRECTORS OF
STOCKTON EAST WATER DISTRICT
APPOINTING AN INTERIM GENERAL MANAGER AND BOARD SECRETARY**

WHEREAS, California Water Code Section 30540 authorizes Stockton East Water District Board of Directors to appoint a General Manager and Board Secretary; and

WHEREAS, the duties of the Stockton East Water District General Manager and Board Secretary include having full charge of the administration of the business affairs of the District; and

WHEREAS, to ensure continuity of operations and efficient and effective management of administration of the business affairs of the District, the Stockton East Water District Board of Directors desires to appoint an Interim General Manager to serve until a permanent General Manager has been appointed; and

WHEREAS, Justin Hopkins, Stockton East Water District’s Assistant General Manager, is fully informed of the needs of the District;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Stockton East Water District that Justin M. Hopkins is appointed as Interim General Manager and Board Secretary, and shall serve this term beginning May 28, 2022 until the Board appoints a permanent General Manager:

PASSED AND ADOPTED at a regular meeting by the Board of Directors of the Stockton East Water District on the 10th day of May 2022 by the following vote of the members thereof:

- Ayes:
- Noes:
- Absent:
- Abstain:

DRAFT

Andrew Watkins, President
Board of Directors
Stockton East Water District

ATTEST:

DRAFT

Scot A. Moody, Secretary
Board of Directors
Stockton East Water District

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Catherine McKinney

From: SJFB <jessica@sjfb.org>
Sent: Thursday, April 21, 2022 3:38 PM
To: Catherine McKinney
Subject: SJFB Water Committee Meeting



Water Committee Meeting Notice

Tuesday, April 26, 2022 at 5:00pm
via Zoom

Please RSVP

LOCATION

via Zoom- see log in info below

DATE AND TIME

04/26/22 5:00pm - 04/26/22 6:00pm

I'll be there! On Zoom

I can't make it

Topic: April Committee Night
Time: Apr 26, 2022 05:00 PM Pacific Time (US and Canada)

Join Zoom Meeting
<https://us02web.zoom.us/j/87527130817?pwd=UVVEQThmN1NYOTROaIA4VVdTaWNpQT09>

Meeting ID: 875 2713 0817
Passcode: 42622

Dial by your location
+1 669 900 9128 US (San Jose)
+1 346 248 7799 US (Houston)
+1 253 215 8782 US (Tacoma)
+1 646 558 8656 US (New York)
+1 301 715 8592 US (Washington DC)
+1 312 626 6799 US (Chicago)
Meeting ID: 875 2713 0817

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JOINT AD HOC TECHNICAL ADVISORY AND LEGAL/POLICY COMMITTEES MEETING

Discussion Topics

Thursday, May 5, 2022

10:30 a.m. – 12:00 p.m.

Call-In Information Provided Below

Note to participants: Staff and other GSA/GWA persons may participate via the teleconference line only. Thank you for your understanding.

The purpose of this meeting is to:

- Achieve Consensus on Scope, Schedule and Actions for Amending and Adopting the GSP
- Achieve Consensus on Woodard & Curran’s Scope of Work to Support Response to DWR Comments
- Discuss Potential GWA Positions, Identify Legal Policy Issues; and
- Achieve Consensus on Recommended Elements of GWA Budget for FY 2022/2023

A. Discussion

1. April 14, 2022 TAC Meeting Notes
2. DWR Draft Response: General
 - a. Schedule and Approach to Complete Response
 - b. NOI to Adopt Amended GSP (sent) & Govt. Code 6066 Noticing
 - c. Adoption by Each GSA and GWA
3. Response to DWR Comments
 - a. Discussion on Work Plan - Near Term (180 days) and Longer Term (next two FY) Approach.
 - b. Corrective Action a-d
 - i. Presentation - Model of PCBL w/ projects, PCBL with Demand Reduction, PCBL w/Climate Change
 - ii. Discussion of MT Exceedance and Implications
 - c. Corrective Action f - Drinking Water Wells

- d. Corrective Action e - Water Quality and Levels
 - e. Corrective Actions - g-l Subsidence
 - 4. Executive Order
 - a. Individual GSA Update on Executive Order 7-22 (GSA representatives report)
 - b. EHD Updates on Executive Order 7-22 (Steven Shih, Environmental Health Division)
 - 5. GWA Budget Technical Elements for FY 2022/2023
-
- B. State Update & Other Informational Items
 - C. Next Meeting and Future Agenda Items
 - D. Adjournment

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,,325997347#](#) United States, Stockton

Phone Conference ID: 325 997 347#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)

Once connected, we request you kindly mute your phone.

Proposed Next Regular Meeting

Thursday June 2, 2022

10:30 a.m. – 12:00 p.m.

Weekly Water Report	As of: April 25, 2022	As of: May 9, 2022
New Hogan (NHG) TOC	292,610	AF
Storage:	130,610	AF
Net Storage Change:	-700	AF
Inflow:	118	CFS
Release:	149	CFS
New Melones (NML) Allocation	75,000	AF
Storage:	926,013	AF
Net Storage change:	-2,200	AF
Inflow:	1,632	CFS
Release:	1,225	CFS
Source: CDEC Daily Reports		

Goodwin Diversion (GDW)		
Inflow (Tulloch Dam):	1,227	CFS
Release to Stanislaus River (S-98):	572	CFS
Release to OID (JT Main):	510	CFS
Release to SSJID (SO Main):	305	CFS
Release to SEWD:	<u>57</u>	CFS
Total Release	1,444	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:	3	
Irrigators on New Melones:	1	
Out-Of-District Irrigators:	0	
DJWWTP Production:	40	MGD
North Stockton:	12	MGD
South Stockton:	5	MGD
Cal Water:	21	MGD
City of Stockton DWSP Production:	12	MGD

District Ground Water Extraction		
74-01	0	GPM
74-02	0	GPM
North	0	GPM
South	0	GPM
Extraction Well # 1	<u>0</u>	GPM
Total Well Water Extraction	0	GPM

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

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AGENDA

ACWA State Legislative Committee

April 29, 2022

REMOTE ACCESS

Click [HERE](#) for Video Login

Meeting ID: 833 4463 2777; Passcode: 815373

10:00 a.m. – 12:00 p.m.

-
- | | |
|--|--------------------------|
| 1. Welcome | Brian Poulsen, Chair |
| | Lauren Layne, Vice-Chair |
| 2. Executive Director's Report | Dave Eggerton |
| 3. Deputy Executive Director for Government Relations' Report | Cindy Tuck |
| 4. Review of Bill Packet* | |
| 5. Legislative Updates | Adam Quiñonez |
| 6. Regulatory Updates | Chelsea Haines |
| 7. Other Business | |
| 8. Adjourn | |

Reminder: Next State Legislative Committee Meeting on May 20, 2022

*Bill packets are also available online by logging on to www.acwa.com.

To access, go to the About My ACWA tab > ACWA Committees > State Legislative > 2022 State Legislative Committee Meeting Materials (Members Only)

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2 | ACWA
0 | SPRING
2 | CONFERENCE
2 | & EXHIBITION

SACRAMENTO

MAY 3 - 5, 2022





ACWA EXHIBIT HALL

WHAT'S HAPPENING IN THE HALL....

- **Dedicated Exhibit Hall Hours**
One-on-one time with vendors from around the U.S. whose products and services may offer you just the right solutions for your agency.
- **Tuesday Welcome Reception**
Network with your peers and friends while visiting with vendors from across the nation!
- **Wednesday Networking Lunch**
Enjoy lunch with your colleagues while also visiting with the various vendors in the exhibit hall. *(Ticket required)*
- **Thursday Prize Drawing**
Mingle with your peers and exhibitors and win great prizes! *All raffle prizes will be drawn on Thursday and you must be present to win.* The drawing will take place at the ACWA Lounge from 11:15-11:45 AM.
- **Exhibitor Demonstrations**
Join select exhibitors for a 20-minute demonstration to learn about their products and services. Check the conference agenda for details on times and the topics of discussion.
- **NEW! Exhibit Hall Scavenger Hunt**
Visit exhibitors daily and hunt for clues using the conference mobile guide app for a chance to win prizes!

Thank
you

EXCLUSIVE PARTNER

ACWA JPIA

2022 SPRING

CONFERENCE SPONSORS

- Bartle Wells Associates
- Black & Veatch Corporation
- California Alliance for Jobs
- California Infrastructure and Economic Development Bank (iBank)
- Carollo Engineers
- Citrus Heights Water District
- Climatex, LLC
- El Dorado Irrigation District
- Elsinore Valley MWD
- Granicus
- Harris & Associates
- HDR
- INTERA Incorporated
- Jacobs
- Kennedy Jenks
- Kleinfelder, Inc.
- Kronick, Moskovitz, et al.
- Mesa Water District
- MissionSquare Retirement
- Moulton Niguel Water District
- MWH Constructors, Inc.
- Nossaman LLP
- Ohlund Management & Technical Services
- Regional Water Authority
- San Juan Water District
- SCV Water Agency (Santa Clarita Valley)
- Stantec
- Stoel Rives LLP
- Todd Groundwater
- Turlock Irrigation District
- Water Replenishment District
- West Basin Municipal Water District
- Western Municipal Water District
- West Yost Associates
- Yuba Water Agency

CONFERENCE AGENDA

★ Agenda items marked with this symbol will be recorded and available for on-demand access after the live event.
Note: Tuesday Committee meetings *will not be recorded or available on-demand.*

ACWA JPIA - MONDAY, MAY 2

- 8:30 - 10:00 AM
 - CWIF Board Meeting
- 10:15 - 11:15 AM
 - ACWA JPIA Executive Committee
- 1:30 - 4:00 PM
 - ACWA JPIA Board of Directors
- 4:00 - 5:00 PM
 - ACWA JPIA Town Hall
- 5:00 - 6:00 PM
 - ACWA JPIA Reception

TUESDAY, MAY 3

- 7:00 AM - 6:00 PM
 - Registration
- 8:00 AM - 9:45 AM
 - Agriculture Committee
- 8:15 AM - 11:30 AM
 - ACWA JPIA Seminars
- 10:00 - 11:45 AM
 - Groundwater Committee
 - Energy Committee
- 11:00 AM - Noon
 - Outreach Task Force
- Noon - 2:00 PM
 - Committee Lunch Break
- 1:00 - 2:45 PM
 - Legal Affairs Committee
 - Local Government Committee
 - Finance Committee
 - Water Management Committee
- 1:00 - 3:00 PM
 - ACWA JPIA: Sexual Harassment Prevention for Board Members & Managers (AB 1825)
- 3:00 - 4:45 PM
 - Communications Committee
 - Federal Affairs Committee
 - Membership Committee
 - Water Quality Committee
- 5:00 - 6:30 PM
 - Welcome Reception Presented by Jacobs

WEDNESDAY, MAY 4

- 7:30 AM - 5 PM
 - Registration
- 8:00 - 9:45 AM
 - Opening Breakfast *(Ticket Required)* ★
- 8:30 AM - 6:00 PM
 - Connect in the Exhibit Hall
- 10:00 - 11:00 AM
 - Attorneys Program ★
 - Finance Program ★
 - Region Forum ★
 - Statewide Forum ★
 - Water Industry Trends Program ★
- 11:15 AM - 12:15 PM
 - Roundtable Talks
- 12:30 PM - 1:30 PM
 - Hans Doe Past Presidents Networking Luncheon in the Exhibit Hall *(Ticket Required)*
- 1:45 - 2:45 PM
 - Attorney Program ★
 - Communications Committee
 - Finance Program ★
 - Statewide Forum ★
 - Water Industry Trends Program ★
- 3:00 - 3:30 PM
 - Ice Cream Break in the Exhibit Hall
- 3:30 - 4:45 PM
 - Regions 1-10 Membership Meetings
- 5:00 - 6:00 PM
 - Connecting Generations Reception Sponsored by Moulton Niguel Water District and the California Data Collaborative
- 6:00 - 7:00 PM
 - Women in Water Hosted Reception

THURSDAY, MAY 5

- 7:30 AM - 2:00 PM
 - Registration
- 8:00 AM - 9:15 AM
 - Exhibitor Demonstrations
 - Networking Continental Breakfast in the Exhibit Hall *(Ticket Required)*
- 8:00 AM - Noon
 - Connect in the Exhibit Hall
- 8:30 - 10:45 AM
 - Ethics Training (AB 1234) - *Limited Seating*
- 9:30 - 11:00 AM
 - Attorneys Program ★
 - **NEW!** Innovation Program ★
 - Region Forum ★
 - Statewide Forum ★
 - Water Industry Trends Program ★
- 11:15 - 11:45 AM
 - Prize Drawings in the Exhibit Hall
- Noon - 2:00 PM
 - Luncheon *(Ticket Required)* ★
- 2:15 - 3:15 PM
 - Joint Attorney/Finance Program ★
 - Finance Program ★
 - Region Forum ★
 - Water Industry Trends Program I ★
 - Water Industry Trends Program II ★
- 3:30 - 4:30 PM
 - Closing Reception

Last modified: April 27, 2022

Registration required to attend any part of ACWA's Spring Conference & Exhibition, including Tuesday May 3 Committee Meetings. See www.acwa.com for health & safety attendance requirements.