



REGULAR BOARD MEETING

APRIL 27, 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, APRIL 27, 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**
 - 1. Minutes 04/20/21 Regular Meeting 01
 - 2. Warrants
 - a. Fund 56 – Construction Fund 07
 - b. Fund 68 – Municipal & Industrial Groundwater Fund 09
 - c. Fund 70 – Administration Fund 11
 - d. Fund 71 – Water Supply Fund 13
 - e. Fund 91 – Vehicle Fund 15
 - f. Fund 94 – Municipal & Industrial Fund 17
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 - 3. Stockton East Water District – Railcar Purchase for Gotelli Bridge 2 Replacement Project Memo, 04/27/21 25
 - 4. Stockton East Water District – Water Supply System Security Patrol Memo, 04/27/21 27

5. Stockton East Water District – Phytophthora Study Memo, 04/27/21 31

E. Committee Reports

F. Report of the General Manager

1. Water Supply Report as of 04/19/21 39
2. Information Items
- a. Material Included, but Bound Separately from Agenda Packet:
1. Governor Declares Drought In Two Counties; Issues State Of Emergency Proclamation, ACWA News, 04/21/21
2. Villapudua Presses Newsom Over Drought Emergency Citing Unmet, Long-Term Water Needs, The San Joaquin Valley Sun, 04/19/21
3. Central Valley Canals Primed To Receive Support For Failing Infrastructure, AgNet West, 04/21/21
3. Report on General Manager Activities
- a. ACWA Region 4 Leadership to Leadership, 04/21/21 41
- b. Stockton East Water District Activities Update

G. Director Reports

H. Communications

I. Agenda Planning/Upcoming Events

1. Special Meeting of the Board of Directors, 12:30 p.m., 04/29/21 43
2. ACWA State Legislative Committee Meeting, 10:00 a.m., 04/30/21

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 - Real Property Negotiations
Government Code 54956.8
3. Closed Session - Personnel
Government Code 54957

K. Adjournment

Certification of Posting

I hereby certify that on April 22, 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 April 22, 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, APRIL 20, 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. Director Sanguinetti led the Pledge of Allegiance.

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

B. CONSENT CALENDAR (None)

C. PUBLIC COMMENT (None)

D. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Minutes 04/13/21 Regular Meeting

Director McGurk made the following correction to the minutes:

- Page 5, section E-1, 1st paragraph, 3rd sentence – strike “AF” and replace with “acre”.

A motion was moved and seconded to approve the April 13, 2021 Regular Board Meeting Minutes, as amended.

Roll Call:

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

2. Warrants – California Public Employees’ Retirement System

A motion was moved and seconded to approve the April 20, 2021 Warrants – California Public Employees’ Retirement System, as presented.

Roll Call:

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

3. Stockton East Water District – SonTek River Flow Measurement Device Memo
Manager Moody provided the Board with information on the SonTek River Flow Measurement Device. Manager Moody reported as part of SB 88 and the Habitat Conservation Plan (HCP) the District is required to monitor and record the daily flow on the Calaveras River.

Manager Moody reported one way to save money and mitigate the challenges of a permanent installation, staff proposes the Sontek R25 Acoustic Doppler Current Profiler (Sontek).

Manager Moody reported measurements would be taken at the beginning of the irrigation season, by mapping the area via sonar technology.

Director Sanguinetti inquired if the Sontek measures the depth of water and gives a reading on the whole area. Manager Moody replied yes.

Director Cortopassi inquired what happens when more water flows through the area. Assistant Manager Hopkins replied an ultra-sonic level sensor will be installed on the Shelton Road Bridge for continuous measurement. As different flows are released, the river surveyor will measure flows and correlate to the level readings.

Manager Moody reported staff would like to see this technology applied to other areas throughout the District, specifically the tunnel outlet as that gauge has never worked properly.

Director Atkins inquired if the water must be clear for accuracy. Assistant Manager Hopkins replied the accuracy is +/- 1% on velocity and even more accurate on depth.

Manager Moody reported this is a budgeted item, but requests the Board's approval due to its cost.

Director McGurk inquired if replacement parts will be hard to obtain if needed. Assistant Manager Hopkins replied no.

Director Cortopassi inquired if an entire package will need to be purchased if this technology is used on other parts of the system. Assistant Manager Hopkins replied no, only a sensor will need to be purchased, which is ~\$1,500-\$2,500.

Director McGurk inquired if this technology will be connected to the SCADA system. Assistant Manager Hopkins replied yes, it is necessary to monitor the daily flow.

A motion was moved and seconded to purchase the Sontek RS5 Acoustic Doppler Current Profiler Flow Measurement Device in the amount of \$24,826.

Roll Call:

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

E. COMMITTEE REPORTS

1. Eastern San Joaquin Groundwater Authority Steering Committee Meeting, 04/14/21
Director Watkins and Manager Moody attended the April 14, 2021 Eastern San Joaquin Groundwater Authority Steering Committee Meeting. Manager Moody reported there was a review of the Annual Report, which has been submitted to the DWR in draft form. There was discussion on the GWA budget, which is on track. President Watkins reported that a working

group will be created to review the new budget. Manager Moody reported there was discussion on the potential grant with the County for the USBR Applied Science Grant for LIDAR satellite imagery. President Watkins added that there is a request for letters of support for the agencies that participated in the grant. There was a brief discussion on water rights and the formation of a task group to look at the American River water rights. There was an update provided on the status of the DREAM Project. The next meeting is scheduled for May 12, 2021.

F. REPORT OF GENERAL MANAGER

1. Water Supply Report as of 04/19/21

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 151,093 AF in storage at New Hogan Reservoir. Current releases are set at 137 cfs. Current release at Goodwin Dam to Stanislaus River are set at 834 cfs and release to all water users are set at 127 cfs. There are 4 irrigator(s) on New Hogan and 3 irrigator(s) on New Melones. The water treatment plant is currently processing 28 mgd. The City of Stockton is currently processing 20 mgd.

2. Information Items:

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

3. Report on General Manager Activities

a. Central Valley Project Water Association – Executive & Financial Affairs Committee, 04/16/21

Finance Director Vega attended the April 16, 2021 Central Valley Project Water Association – Executive & Financial Affairs Committee Meeting. Finance Director Vega reported there was review of the calculations for 2014-2019 construction costs as some were misclassified. The USBR contends that this misclassification should not have a significant impact on water agencies. It was the recommendation of the Association for the USBR to send formal letters in May to show an estimate of what is being used for water deliveries and how that may impact revised rates. Finance Director Vega reported there was a review of the CVPIA environmental portion; both power and water agencies have credits as of the last communication with the USBR, but there is concern the new administration may cause changes which will have negative impacts on the progress made on this issue. There were minor updates provided on continuing communications used to report out to agencies. Director Cortopassi inquired since southern water users are getting no water, will fixed costs be spread among other users. Finance Director Vega replied yes. The next meeting is scheduled for May 21, 2021.

b. Stockton East Water District Activities Update

Assistant Manager Hopkins reported last week during dam installation, the 8,000 pump was installed on Mormon Slough to supply water to Potter Creek. Upon installation, staff found an issue with the pump. Purviance Drillers looked at the equipment and it is their opinion the bearing in the pump is the issue. Assistant Manager Hopkins assumes this became damaged during removal last irrigation season or the recent installation. Staff has

scheduled to pull the pump on Thursday and it will be sent to Purviance for disassembly and repair.

Assistant Manager Hopkins reported on Saturday one of the Water Supply Supervisors found a collapsed pipeline. Staff is working on repairs and hopes to get the fixes done today. Depending on the availability of parts it may not be done until Thursday.

Assistant Manager Hopkins reported when staff was performing work on the Bellota pipeline they found a small leak. The area has been excavated to assess and a ring crack was found. Staff is continuing to assess the repair and is hoping to have it done by Saturday. Manager Moody added that not much water can be supplied for irrigation on Potter Creek until this work is complete.

Manager Moody inquired with the Board on creating a Committee to review Rule No. 131. President Watkins replied a Committee will be decided and staff will be advised.

Manager Moody reported the District will be celebrating Water Quality Control Analyst Morley's retirement on May 21st.

Manager Moody reported Dennis Cardoza will be in town on April 29th and would like to have lunch with the Board. Manager Moody asked that interested Board Members let him know so food can be ordered. A Special Meeting will be noticed for this lunch.

G. DIRECTOR REPORTS

1. Sexual Harassment Training – Live Webinar, 04/20/21
Directors Cortopassi, McGaughey, McGurk, Sanguinetti and Watkins and Manager Moody attended Sexual Harassment Training on April 20, 2021. Director McGurk reported it was the best presentation on the subject he has attended.

H. COMMUNICATIONS

1. Central Valley Salinity Coalition – 2021 Board Level Membership Contribution – End of Support Letter, 04/14/21
Manager Moody provided the Board with correspondence dated April 14, 2021 regarding the District ending its contribution to the Central Valley Salinity Coalition (CV Salts).

I. AGENDA PLANNING/UPCOMING EVENTS

1. ACWA Region 4 Leadership to Leadership, 1:00 p.m., 04/21/21
2. Greater San Joaquin County Regional Water Coordinating Committee Meeting, 3:00 p.m., 04/21/21
This meeting was cancelled

Director McGaughey thanked Manager Moody, District staff and the Board for the continued help and support over the past year.

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

3. Closed Session – Personnel
Government Code 54957

President Watkins adjourned the meeting to closed session at 1:11 p.m. to discuss closed session agenda items. Administrative Assistant Curtis was excused from the closed session meeting at 1:15 p.m. The regular meeting reconvened at 1:30 p.m., with no reportable action.

K. ADJOURNMENT

President Watkins adjourned the meeting at 1:31 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		CONSTRUCTION FUND 56		
1 Balance Staffing Workforce LLC	20-5203-0	Temp labor for Whittles' Bridges Project week 3/21/21-3/28/21	3,738.97	210010/209738
2 California Welding Supply Co.	20-5203-0	Welding supplies for Whittles' Bridges Project	179.31	827411
3 F.T.G. Construction Materials Inc.	20-5203-0	Rocks for Whittles' Bridges Project	28,360.29	0107142-0107560
4 HDS White Cap Construction Supply	20-5203-0	Rebar for Whittles' Bridges Project	3,762.47	50015305439/3936384
5 HDS White Cap Construction Supply	20-5203-0	Fasteners and Mirafi for Whittles' Bridges Project	2,073.74	10013942949/3867/7755
6 HDS White Cap Construction Supply	20-5203-0	Visqueen, sealant and lumber	1,166.69	10013929834/15315106
7 HDS White Cap Construction Supply	20-5203-0	Tire Wire	846.93	10013940601/928676
8 Hixco	20-5203-0	Anchors for Whittles' Bridges Project	112.77	419222
9 Holt of CA	20-5203-0	Rental of excavator for Whittles' Bridges Project	31,024.82	T9781601/T9782901
10 Holt of CA	20-5203-0	Rental of loader for Whittles' Bridges Project	8,210.21	T9786001
11 Holt of CA	20-5203-0	Rental roller for Whittles' Bridges Project	5,333.73	T9785901
12 Kjeldsen, Sinnock & Neudeck Inc.	20-5203-0	Whittle Crossings staking for Main and Smith Crossing	7,480.00	29974
13 Knife River Construction/Concrete Inc.	20-5203-0	Concrete for Whittles' Bridges Project	9,663.17	325327/848/664/156/663
14 Mudslinger Concrete Pumping	20-5203-0	Concrete pumping for Whittles' Bridges Project	2,190.00	RM032921/1721/2921
		CONSTRUCTION FUND 56 TOTAL	\$104,143.10	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		GROUNDWATER PROD. FUND 68		
15 PG&E 1289619691-7	10-5302-0	Electricity 3/11/21-4/11/21 6767 E Main-Extract Well South	63.36	12896196917-4/12/21
16 PG&E 4758034525-5	10-5302-0	Electricity 3/11/21-4/11/21 6767 E Main-Extr Well North	51.68	47580345255-4/12/21
		GROUNDWATER PROD. FUND 68 TOTAL	\$115.04	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		ADMIN FUND 70		
17 Accruent LLC	10-5143-0	Maintenance Connection annual tech support 4/01/21-3/31/21	7,112.77	US_INV00008470
18 Action Asap Delivery Service	10-5126-0	March 2021 courier services	635.00	90118
19 AllConnected Inc	10-5143-0	Support renewal for APC and Cisco network	1,916.27	42695
20 AllConnected Inc	10-5143-0	Cisco/APC network hardware and software	1,581.46	42705/42696
21 Anixter Inc.	10-5146-0	Communication cables and connectors for SCADA project	950.49	890296080/890296081
22 Anthony Barkett	10-5155-0	May 2021 consulting fees-efforts to protect NM water	5,500.00	May 2021
23 Aquatic Dreams Scuba Center	10-5101-0	Annual service of regulators & BCDs.	566.45	154728
24 Cerida Investment Corp.	10-5141-0	Answering service from 4/13/21-5/10/21	137.00	112-78589
25 ControlPoint Engineering Inc.	10-5146-0	WTP SCADA - Implementation & filter replacement project	21,445.00	SEWD-21006
26 ControlPoint Engineering Inc.	10-5146-0	WTP SCADA system training manual updates	4,800.00	SEWD-21008
27 ControlPoint Engineering Inc.	10-5146-0	PCI and HMI standards document	9,980.00	SEWD-21007
28 ControlPoint Engineering Inc.	10-5146-0	Service call to restore PLC I/O problem	960.00	SEWD-21010
29 CSI Telecommunications, Inc	10-5146-0	FIC License modifications for WS SCADA	2,150.00	21-3688
30 Doyce Boesch	10-5155-0	May 2021 consulting services by Doyce Boesch	7,000.00	May 2021
31 Employment Development Dept. (EDD)	10-5045-0	Unemployment insurance FY 2020-2021	3,389.11	L0204380128-B/A
32 Fishbio	10-5174-0	Jan/Feb 2021 Consulting Bellota Fish Ladder	4,450.02	3734/3703
33 Fishbio	10-5174-0	Jan/Feb 2021 Consulting Calaveras HCP	8,417.50	3737/3687
34 Fishbio	10-5174-0	Jan/Feb 2021 Consulting Calaveras O.mykiss abundance	15,695.11	3735/3704

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		ADMIN FUND 70		
35 Fishbio	10-5174-0	Jan/Feb 2021 Consulting Calaveras Redds	10,230.00	3736/3711
36 Fishbio	10-5174-0	Jan/Feb 2021 Consulting Calaveras RST monitoring	37,429.02	3738/3712
37 Frontier Communications	10-5141-0	Linden Tel Directory listing for 4/07/21-5/06/21	14.54	530-1961403-4/01/21
38 Herum, Crabtree,Suntag	10-5162-0	Mar 2021 v. City of Stockton (legal exp.)	6,596.85	Mar 2021-1026-206
39 Herum, Crabtree,Suntag	10-5165-0	Mar 2021 Central SJWCD Reorganizaion (legal exp.)	2,703.00	Mar 2021-1026-042
40 Herum, Crabtree,Suntag	10-5150-0	Mar 2021 General Matters (legal exp.)	2,187.90	Mar 2021-1026-004
41 Herum, Crabtree,Suntag	10-5150-0	Mar 2021 Rate Cap Removal (legal exp.)	828.75	Mar 2021-1026-038
42 Herum, Crabtree,Suntag	10-5150-0	Mar 2021 American River Water (legal exp.)	530.40	Mar 2021-1026-025
43 Herum, Crabtree,Suntag	10-5171-0	Mar 2021 Calaveras River Fish Flows (legal exp.)	397.80	Mar 2021-1026-041
44 Herum, Crabtree,Suntag	10-5165-0	Mar 2021 New Melones Project (legal exp.)	364.65	Mar 2021-1026-031
45 Herum, Crabtree,Suntag	10-5165-0	Mar 2021 Stanislaus River Matters (legal exp.)	265.20	Mar 2021-1026-003
46 Herum, Crabtree,Suntag	10-5165-0	Mar 2021 San Joaquin River Water Quality Issues (legal exp.)	165.75	Mar 2021-1026-020
47 Herum, Crabtree,Suntag	10-5190-0	Mar 2021 SEWD v SWRCB (legal exp.)	132.60	Mar 2021-1026-211
48 Linden Peters Chamber of Commerce	10-5105-0	2021 membership dues Linden-Peters Chamber of Com.	30.00	2021 membership
49 Municipal Automation Services	10-5146-0	SCADA System WTP Automation services	32,472.50	1906
50 Quill Corporation	10-5125-0	Office supplies ordered on 4/01/21, 7/23/20	386.27	15756532/8911649
51 Rexel USA Inc	10-5146-0	PLC rack and modules for Raw Water PLC SCADA	7,499.34	S130366694.001
52 Rexel USA Inc	10-5146-0	Input modules	1,133.26	S130360817.001
53 San Joaquin County Environmental Health Dept.	10-5114-0	3rd SGMA Monitoring Well Permit Fee	197.60	IN0348610
54 SEWD Vehicle Fund	10-5181-0	Mar 2021 - Vehicle Mileage Reimbursement- Admin	368.20	Mar 2021- Admin
55 Smart & Final	10-5125-0	SEWD boardroom supplies ordered on 3/12/21	300.98	4031310013103
56 Standard Insurance Co.	10-5047-0	May 2021 long term insurance	428.79	May 2021
57 Taylor Curtis	10-5049-0	Reimburse purchase of service credit CalPERS	2,974.44	4/20/21
58 TPX/ Telepacific Communications	10-5141-0	April 2021 telephone charges for SEWD	2,546.22	142282722-0
59 Verve Networks	10-5141-0	Managed IT service monthly billing for May 2021	3,554.30	20831
60 Verve Networks	10-5146-0	Configure network to support new filter SCADA	5,250.00	20672
61 Verve Networks	10-5140-0	Secure call to troubleshoot network connection problem	806.25	20686
62 Wagner & Bonsignore	10-5178-0	Mar. 2021 Prof. services Water Supply Enhancement Project	1,477.50	04-21-129
		ADMIN FUND 70 TOTAL	\$217,958.29	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		WATER SUPPLY FUND 71		
63 CA Dept. of Fish & Wildlife	10-5203-0	Cotta-Ferreira Dam Replacement 1602 permit	3,464.00	Permit-17111
64 Contract Coatings Corp.	10-5213-0	Paint and supplies for New Melones maintenance	193.10	41831/41833
65 Dokken Engineering	10-5205-0	CEQA fees for Gotelli Bridge 2. and Dondero crossing	11,775.74	38350/38619/38595
66 F.T.G. Construction Materials Inc.	10-5205-0	Rock for Whittles' Bridges Project	852.01	0106547
67 Frank A. Olsen Co.	10-5206-0	Air Valves	466.22	246617
68 HDS White Cap Construction Supply	10-5202-0	Wood stakes/sockets/Fasteners for Bellota Weir Dam instal.	1,317.79	50015467163/5344583
69 International Water Screens Co.	10-5213-0	Flight clips for Trash Racks at Duck Crk. & Birdcage	988.02	Z-1253
70 McCrometer, Inc.	10-5213-0	18" ultra mag meter for L. Brichetto Project	9,046.93	548623 RI
71 McCrometer, Inc.	10-5205-0	10" mag meter	2,609.27	548569 RI
72 McJunkin Redman Corporation Global US	10-5214-0	Replacement actuator for Goodwin Inlet Gate 1	12,158.51	6922215001
73 Morrill Industries, Inc.	10-5213-0	Pipe, fittings, gaskets, & fasteners for L. Brichetto Project	1,210.02	In00148978
74 PG&E 1949656419-6	10-5213-0	Gas&Electr 3/05/21-4/15/21 BellotaBlickh/Canal Gate/TP	298.71	19496564196-4/15/21
75 PG&E 1949656419-6	10-5202-0	Gas&Electr 3/05/21-4/15/21 BellotaBlickh/Canal Gate/TP	753.61	19496564196-4/15/21
76 PG&E 2333223109-3	10-5213-0	Electricity 3/15/21-4/13/21 Sonora Rd - NMCF	88.89	23332231093-4/14/21
77 PG&E 5598232323-4	10-5213-0	Electricity 3/11/21-4/11/21 E Funck Rd Gates	44.89	55982323234-4/12/21

**STOCKTON EAST WATER DISTRICT
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Vendor name	Account #	Description	Amount	Invoice No.
		WATER SUPPLY FUND 71		
78 PG&E 6377610771-4	10-5213-0	Electricity 3/12/21-4/12/21 Copperopolis Rd Trash Rack	166.70	63776107714-4/13/21
79 PG&E 8683314685-4	10-5213-0	Electricity 3/15/21-4/13/21 Duck Creek Trash Rack	495.15	86833146854-4/14/21
80 Rubicon Systems America Inc.	10-5213-0	Manual override pendant controller for operation of gates	1,497.96	101807/8
81 SEWD Vehicle Fund	10-5218-0	Mar 2021 - Vehicle Mileage Reimbursement- WS-NM	7,471.16	Mar 2021- WS-NM
82 SEWD Vehicle Fund	10-5207-0	Mar 2021 - Vehicle Mileage Reimbursement- WS-NH	2,860.10	Mar 2021- WS-NH
83 Standard Insurance Co.	10-5047-0	May 2021 long term insurance	238.46	May 2021
84 Standard Insurance Co.	10-5056-0	May 2021 long term insurance	87.41	May 2021
85 Stockton Windustrial Co.	10-5206-0	Valve, pipe, fittings, and sealant for Bellota Project	1,978.85	331672 01
86 Stockton Windustrial Co.	10-5206-0	Gaskets and sealing supplies for Bellota Pipeline	784.40	331053/486/2054
87 Stockton Windustrial Co.	10-5205-0	Pipe extension for manual crank operation. PC-1 outlet	84.54	331687 01
88 T & T Valve and Instrument Inc	10-5206-0	1" 3" 4" Air valves	24,870.27	59181/59107/59204/59241
89 UniFirst Corporation	10-5213-0	4/8/21,4/15/21 weekly laundry service	88.18	370 1307630/370 1306145
		WATER SUPPLY FUND 71 TOTAL	\$85,890.89	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		VEHICLE FUND 91		
90 Autozone Stores Inc.	10-5182-0	DEF for district vehicles	160.22	4036240863
91 Autozone Stores Inc.	10-5182-0	Brake pads for Unit 64/Filters to service vehicles Unit 49/74	192.57	4036224209/34161/228855
92 Big Valley Ford	10-5182-0	Seal to service Unit 64	8.77	549913
93 Campora Propane Service	10-5182-0	Propane for forklift, Unit 70	56.60	291256
94 Delta Cable & Supply, Inc.	10-5182-0	Slings for Unit 31	184.43	46805
95 Fastenal Company	10-5182-0	Windshield wash for district vehicles	18.96	CASTC143912
96 Valley Pacific Petroleum Services, Inc.	10-5182-0	Red Diesel for district heavy equip & emergency generators	10,301.74	INV 21-384070
97 Valley Pacific Petroleum Services, Inc.	10-5182-0	Clear diesel for district vehicles	3,825.79	INV 21-392653
		VEHICLE FUND 91 TOTAL	\$14,749.08	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		MUNICIPAL & INDUSTRIAL FUND 94		
98 Acme Saw & Supply	10-5324-0	Supplies to service grounds maintenance equipment	209.47	292509
99 Capital Rubber Co., Ltd.	10-5343-0	Fitting for spray rig	11.51	5146080
100 Commercial Pump & Mechanical, Inc	10-5321-0	Labor to inspect pump and motor on P-28	1,625.00	20048-4
101 Delta Cable & Supply, Inc.	10-5343-0	Lifting slings and shackle	724.22	46813
102 Fastenal Company	10-5343-0	Tools for Unit 47 and 64	828.49	CASTC143690
103 Fastenal Company	10-5344-0	TP Consumables ordered on 3/24/21	75.30	CASTC143670
104 Fastenal Company	10-5321-0	Washers for installation of P-28	7.56	CASTC144008
105 Ferguson Enterprises	10-5321-0	Flange and gasket for installation of P-28	307.56	9028916/9028293
106 Ferguson Enterprises	10-5326-0	Bubble spray/test cap/plumbing supplies for new conf. room	90.23	8954993/3225/0265/6786
107 FGL Environmental	10-5308-0	Colliform bacti monitoring sampled on 3/18/21-3/25/21	340.00	133778A/44/38/40/07/77
108 Golden State Irrigation Services	10-5321-0	Fitting, pipe wrap, and box with lid for surface wash repair	200.89	0025964-IN
109 J. Milano Company, Inc.	10-5321-0	O-rings for surface wash pump 2 refurbish	6.28	461225
110 J. Milano Company, Inc.	10-5343-0	Tools/Bolt for maintenance on equipment	303.63	458483/458309/458571
111 John E Morley	10-5049-0	Reimburse purchase of service credit CalPERS	9,802.41	4/20/21
112 MSC Industrial Supply Co.	10-5322-0	Process clamp meter for Electricians	1,349.95	68531593
113 Newark	10-5322-0	Meter for electricians	290.91	33670729

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
April 27, 2021**

Vendor name	Account #	Description	Amount	Invoice No.
		MUNICIPAL & INDUSTRIAL FUND 94		
114 Pace Supply Corp.	10-5321-0	Check valves for Filter Deck	1,158.76	056649944
115 PG&E 1949656419-6	10-5302-0	Gas&Electr 3/05/21-4/15/21 BellotaBickh/Canal Gate/TP	20.42	19496564196-4/15/21
116 PG&E 1949656419-6	10-5303-0	Gas&Electr 3/05/21-4/15/21 BellotaBickh/Canal Gate/TP	1,571.79	19496564196-4/15/21
117 PG&E 3795916542-6	10-5302-0	Electricity 3/12/21-4/12/21 6767 E Main-North Raw Water	1,456.50	37959165426-4/13/21
118 PG&E 7493068226-0	10-5302-0	Electricity 3/18/21-4/16/21 Outdoor Light-TP	13.49	74930682260-4/16/21
119 Platt Electric Supply Inc.	10-5344-0	Stainless steel fasteners for TP maintenance	505.78	1K66601/1L41539
120 Platt Electric Supply Inc.	10-5321-0	Fuses for Traveling Bridge	79.17	1L18071
121 SEWD Vehicle Fund	10-5181-0	Mar 2021 - Vehicle Mileage Reimbursement- M&I	3,195.30	Mar 2021-M&I
122 Standard Insurance Co.	10-5047-0	May 2021 long term insurance	1,169.27	May 2021
123 Stockton Scavengers/Waste Management	10-5304-0	Apr 2021 garbage service @6767 East Main St	538.36	0038056-0051-1
124 Stockton Windustrial Co.	10-5323-0	Fittings for Master Backwash valve	62.52	331677 01
125 Sunair Co.	10-5321-0	O-ring/deflector/oil seal to service Wash Pump 2	349.21	23606/581/626/576
126 T & T Valve and Instrument Inc	10-5323-0	Morin Hydraulic rebuild kits for VFD&ball valves replacement	8,338.51	59012
127 Thatcher Company of CA	10-5301-0	1 load of acidified alum delivered on 3/18/21-4/13/21	36,083.96	727/61/99/01/95/56/24/99
128 UniFirst Corporation	10-5342-0	4/08/21, 4/15/21 weekly laundry service	251.00	370 1307630/370 1306145
129 Univar USA Inc.	10-5301-0	Caustic soda delivered on 4/07/21	5,739.26	49073238/49073239
130 USA Blue Book	10-5322-0	Universal controller chlorine analyzer for Water Res. 1	2,467.01	567298
131 USA Blue Book	10-5322-0	Sensor for turbidimeter	197.56	560300
		MUNICIPAL & INDUSTRIAL FUND 94 TOTAL	\$79,371.28	

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
APRIL 27, 2021**

Fund Number	Fund Summary	AP Amount
Fund 56	Construction Fund	104,143.10
Fund 68	Groundwater Prod. Fund	115.04
Fund 70	Administration Fund	217,958.29
Fund 71	Water Supply Fund	85,890.89
Fund 91	Vehicle Fund	14,749.08
Fund 94	Municipal & Industrial Fund	79,371.28
	TOTAL FUND SUMMARY	\$502,227.68

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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
RPM	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 /25,900gvwr	Trailer
Unit 34 2000 Cartaway Tank Trailer /6000gvw	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 A. Moody – General Manager
From: Justin Hopkins – Assistant General Manager
Darrel Evensen – District Engineer
Gianna Cianfichi – Associate Engineer
Date: 4/27/2021
Re: Flat Railcar Bridge for Gotelli Bridge 2 Replacement Project

BACKGROUND

The existing Gotelli Bridge 2 (Figure 1), an 80 feet long timber bridge, is dilapidated and exhibits signs of failure. Per the April 16, 1958 Grant Deed and Bill of Sale between the former Linden Irrigation District and the Stockton East Water District (District), the District is required to perform all maintenance on and replacement of Gotelli Bridge 2. District Engineering staff assessed the existing timber bridge and determined the most cost effective method to address the existing issues is replacement of the existing bridge with a new flat railcar bridge. The Board approved funding to replace Gotelli Bridge 2 in the fiscal year 2021-2022 budget.



Figure 1. Gotelli Bridge 2

SUMMARY

District staff propose replacing the dilapidated Gotelli Bridge 2 with an 89-foot by 9-foot wide flat railcar bridge (Figure 2). The project includes building concrete foundations on each side of Old Calaveras River and then securing the flat railcar on top of the foundations. The existing bridge will be abandoned by the District and quitclaimed to the landowner.

Staff solicited for quotes and received only one quote from Pacific Rail for the flat railcar bridge. The price quote is \$25,000, estimated tax is \$687.50, and shipping is \$3,000, for a total of \$28,687.50. The quote is consistent with pricing the District received in 2018 from Jim Dobbas Inc., who is no longer in business. The approved budget for the Gotelli Bridge Replacement Project is \$323,300, which includes \$114,800 for contractor costs.



Figure 2. Railcar Bridge

RECOMMENDATION

Staff recommends the Board authorize the General Manager to proceed with the purchase of the flat railcar bridge offered by Pacific Rail for \$28,687.50, plus a 10% contingency of \$2,868.75.

Memorandum

To: Scot A. Moody, General Manager
From: Justin Hopkins, Assistant General Manager
Date: April 27, 2021
Re: Water Supply System Security Patrol

Background

Beginning in June 2020, the Stockton East Water District (District) continues to be contacted by customers on Flood Road regarding unrestricted access to and trespassing on the Mormon Slough near the District's Avansino Dam facility. Trespassing includes jumping from Flood Road bridge, operation of off-highway vehicles along the Mormon Slough levees, and operation of watercraft in Mormon Slough. The District is responsible for the Avansino Dam facility, but not for the overall security of the Mormon Slough.

The District maintains easements with landowners adjacent to Mormon Slough to provide the District access to District facilities and permit the District to convey irrigation water. The Mormon Slough right-of-way is granted under separate documents to the U.S. Army Corps of Engineers (Corps) and the Corps has authorized the Central Valley Flood Protection Board (CVFPB) to manage the Mormon Slough. Staff reached out to the CVFPB to discuss improved security measures to prevent unauthorized access to the Avansino Dam site, as trespassers impose undue liability to the District, the landowners, and all other involved agencies. The CVFPB directed staff to the San Joaquin County Department of Public Works – Channel Maintenance Division (Division), who is contracted by the CVFPB to provide maintenance of the Mormon Slough.

Summary

District staff discussed the trespassing issues with an ad-hoc committee of Board members and received direction at the August 20, 2020 ad-hoc committee meeting. Steps taken by the District since the ad-hoc committee meeting include:

- Installation of the District's 'No Trespassing' sign;
- Contacting the Division to encourage the Division to keep the Mormon Slough access gates closed;
- Contracting the Division to receive District permission to install a new gate at the location shown in Figure 1;
- Encouraging adjacent landowners to contact the San Joaquin County (County) Sheriff (Sheriff) when trespassers are observed;
- Investigating the use of a security patrol.



Figure 1. Proposed Gate Location

Findings

- The District's 'No Trespassing' signs were installed during the 2020 irrigation season and landowner feedback indicates the signs made negligible impact to the quantity and frequency of trespassers.
- The Division has made an increased effort to keep gates closed at Flood Road to prevent access, however the Division believes individuals not affiliated with the County and who have a County key are using the gates. At the District's request, the Division agreed on April 19, 2021 to change the County's lock at the Flood Road gates to a new key.
- The District contacted the Division to receive permission to install a new gate at the proposed location shown in Figure 1. After conversations between the Division and the CVFPB, the District's request was denied.
- Adjacent landowners have been diligent about contact the Sheriff when trespassers are observed. Landowner feedback indicates the non-emergency nature of trespassing calls results in Sheriff response times of ~2 hours and long after the trespassers vacate.
- District staff received a quote from Delta Protective Services, the company previously used by the District for security patrol. The cost to patrol the Flood Road bridge/Avansino Dam area and five (5) additional, popular trespassing sites is \$29,700. The security patrol proposal includes just the irrigation season and one visit per site between the hours of 15:30 to 19:30. Landowner feedback about the District's previous use of security patrol indicates the security patrol is ineffective, as the security patrol results in the trespassers temporarily vacating and then returning upon the security patrol's departure.

Next Steps

Staff recommends the District continue encouragement of the adjacent landowners to contact the Sheriff when trespassers are observed and to direct general trespassing complaints to the County.

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Memorandum

To: Scot A. Moody, General Manager
From: Justin Hopkins, Assistant General Manager
Date: April 27, 2021
Re: Phytophthora Study

Background

As part of the Eastern San Joaquin Groundwater Sustainability Plan, the Stockton East Water District (District) must participate in the regional effort to develop sustainable groundwater use, requiring the District to increase agricultural surface water use from New Hogan reservoir by 20,000 acre-feet annually. In an effort to quell any concerns or hesitations District customers may have about phytophthora from converting to surface water irrigation, the District decided to perform an updated phytophthora study (Study). The fiscal year 2021-2022 budget approved by the District's Board of Directors (Board) includes funding to perform the Study within the District's New Hogan conveyance system.

Summary

Beginning in August, 2020, District staff worked collaboratively with the U.S. Department of Agriculture (USDA) and the University of California Cooperative Extension (UCCE) to develop a comprehensive Study scope. USDA and UCCE worked around the District's \$31,000 budget and developed a thorough proposal (Attachment) to provide the District with:

- Confirmation and identification of phytophthora species in the District's various waterways;
- Identification of phytophthora species found naturally in District soils;
- Discussion of phytophthora risk level and a matrix of rootstock and cultivars known to be affected by the identified species;
- Recommended irrigation management practices.

Recommendation

Staff recommends the Board authorize the General Manager to approve the \$31,000 proposal and to execute all agreements necessary to perform the Study.

Stockton East Water District *Phytophthora* sampling proposal

Greg Browne, Natalia Ott, Mohamed Nouri

EXECUTIVE SUMMARY

In order to comply with the Sustainable Groundwater Management Act, the Stockton East Water District (SEWD) is encouraging walnut and cherry growers to use surface water for irrigation. However, many growers are still hesitant to irrigate with surface water because of concerns that it might introduce *Phytophthora* into their orchards. In the late 1980's, surveys for *Phytophthora* detected plant pathogenic species in the waterways supplying the SEWD, but no recent surveys for the pathogen have been conducted in the district's water.

The proposed project will gather data to help assess concerns over the potential presence of pathogenic *Phytophthora* species in the SEWD surface water. Specifically, in this project we will 1) survey SEWD waterways throughout the irrigation season for the presence of *Phytophthora* species, 2) compare *Phytophthora* populations in soil from orchards irrigated with SEWD surface water vs. orchards irrigated with groundwater, and 3) determine whether on-farm irrigation systems can be shown to bring viable *Phytophthora* from the waterway into the orchard. Each aspect of the project will identify *Phytophthora*s to species or species-complex level, so that the risk they pose to cherry, walnut, and other perennial crops can be assessed. All of the data gathered by the project will be summarized and assembled into a final report. The report will consider the project's findings in relation to what is known about *Phytophthora* diseases of orchard crops and discuss implications of the findings for grower practices related to the SEWD water use and prudent irrigation practices.

WORK PLAN

Objective 1. Survey SEWD waterways throughout the irrigation season for the presence of *Phytophthora* species

This objective aims to answer the following questions:

- Are *Phytophthora* species present in SEWD waterways during the irrigation season?
- Does the presence or type of *Phytophthora* species change throughout the season, or as you move along the waterway?
- Are these species known to cause disease in walnut or cherry orchards?

These questions will be addressed by conducting a *Phytophthora* survey of SEWD waterways throughout the irrigation season. A set of "core" sites will be selected for monthly sampling from May to October (Table 1, Figure 1). The core sites will represent major branches in the SEWD waterway network, as well as the most downstream point for each major waterway. This sampling will be expanded to include an additional set of sites twice during the irrigation season, once in late spring and once in late summer. These additional sites will complement the core sites by adding intermediate positions along each waterway.

The core and additional waterway sites will be sampled by collecting and filtering several gallons of water through filters fine enough to retain *Phytophthora* spores. These filters will be frozen, and at the end of the sampling period DNA will be extracted from each filter. The DNA will represent all of the organisms, including *Phytophthora*, retained on the filter. Diagnostic *Phytophthora* DNA from each filter will be amplified and tagged with a unique identifying barcode using selective PCR primers. We will use primers that amplify ITS1 and 2 fragments from DNA from the rRNA gene, which can be used to identify species and species-complexes of *Phytophthora* known to be pathogenic on tree crops. The barcoded DNA from all filters will be combined, then subjected to high-throughput sequencing using the PacBio platform. This will yield thousands of DNA sequences from each sample, which can be compared to the DNA sequences from known *Phytophthora* species to determine which species of *Phytophthora* are present in each sample.

These sequencing data will reveal what *Phytophthora* species were present at each site at each time it was sampled. The monthly sampling at core sites will provide information about how waterway *Phytophthora* populations vary throughout the irrigation season in those locations. However, due to the single-year scope of this project, any temporal patterns that are revealed are only preliminary and would need to be confirmed in subsequent years. At the two timepoints that the core and additional sites are sampled, we will be able to describe changes in *Phytophthora* populations along each waterway.

Activities:

- Work with SEWD to identify core waterway sites for monthly sampling
- Identify additional waterway sites for sampling in June and August/September
- May-Oct: monthly filter sampling of the core waterway sites for sequence analysis
- June and August/September: filter sampling of additional waterway sites for sequence analysis
- In October, after last sampling, high-throughput sequencing of all samples

Deliverables:

- Final report will include:
 - Summary of *Phytophthora* species found in each waterway over the sampling period, with information from the literature about which species are known to infect walnut or cherry
 - Analysis of changes in presence and abundance of waterway *Phytophthora* species through the irrigation season
 - Analysis of changes in presence and abundance of waterway *Phytophthora* species as you move along the waterways

Objective 2. Compare *Phytophthora* populations in soil from orchards irrigated with SEWD surface water vs. orchards irrigated with groundwater

This objective aims to answer the following questions:

- How prevalent is *Phytophthora* in orchard soils?
- What *Phytophthora* species are present in the sampled orchard soils?
- Does *Phytophthora* prevalence or species depend on irrigation water source (surface water vs groundwater)?

These questions will be addressed by conducting a large-scale *Phytophthora* survey of walnut and cherry orchards throughout the SEWD. Orchards which use one of two different irrigation water sources, surface water or groundwater, will be selected for soil sampling. We will also attempt to include orchards using each water source with different types of irrigation systems, i.e. impact sprinkler, microsprinkler, or drip systems.

At each orchard, soil will be collected and split into portions for 1) freezing, DNA extraction, and high-throughput sequencing, 2) baiting with leaf tissue, DNA extraction from the leaf bait, and high-throughput sequencing, and 3) baiting with leaf tissue and pear fruit and culturing the *Phytophthora* species detected with the baits. Baiting with leaf tissue or pear fruits is a well-known method for detecting many *Phytophthora* species from soil, and when used in conjunction with high-throughput sequencing will provide a powerful way to detect *Phytophthora* from orchard soils. This survey will be conducted twice during the irrigation season, once in late spring and once in late summer.

This survey will give us an idea of how prevalent *Phytophthora* currently is in SEWD-served or potentially served orchards. It will provide evidence for whether *Phytophthora* populations in orchards are impacted by the use of different irrigation water sources. Depending on the orchards sampled, we may also get a sense of whether irrigation system type affects the prevalence or types of *Phytophthora* species found in orchards irrigated from either water source. We do not anticipate that these data will be sufficient to completely assess the level of risk, or lack of risk, posed to orchards by using surface water for irrigation. However, if irrigating with surface water has a large impact on *Phytophthora* populations in orchards, we would expect to find evidence of that impact.

Activities:

- Identify walnut and cherry orchards for soil sampling, approximately half irrigated with groundwater and half with surface water. Include orchards using impact sprinkler, microsprinkler, and drip irrigation systems.
- June and August/September: soil sampling from all orchards for sequence analysis and bait sampling
- After last sampling, sequence all samples

Deliverables:

- Final report will include:
 - Summary of *Phytophthora* species detected in orchard soils
 - Comparison of frequency and type of *Phytophthora* species detected in groundwater irrigated vs surface water irrigated orchards

Objective 3. Determine whether on-farm irrigation systems can be shown to bring viable *Phytophthora* from the waterway into the orchard

This objective aims to answer the following questions:

- If *Phytophthora* is present in a waterway, can it remain viable after passing through an irrigation system and exiting the irrigation emitter?
- Does this depend on irrigation system type (impact sprinkler vs microsprinkler)?

These questions will be addressed by sampling water from irrigation emitters in selected surface water irrigated orchards from Objective 2. These orchards will represent two commonly-used irrigation systems, impact sprinklers and microsprinklers. In an impact sprinkler system, water is passed through only a coarse filter before being applied to an orchard. In contrast, microsprinkler systems require that the water be more carefully filtered before being applied to the orchard. This different level of filtration could change the likelihood of viable *Phytophthora* passing from the waterway into the orchard.

Irrigation water will be sampled by collecting water from orchard irrigation emitters in modified 5-gallon buckets. This will be done during an active irrigation set, and pear fruit and possibly leaf tissue baits will be placed in each bucket. For comparison, baits will be placed in the waterway near the irrigation intake point for the same period of time. After the irrigation set is completed, the baits will be collected and any *Phytophthora* species trapped by the baits will be grown in the lab. This sampling will be done twice during the irrigation season, once in late spring and once in late summer.

Since only viable *Phytophthora* will be trapped by the baits, this sampling will indicate if viable *Phytophthora* is entering orchards through their irrigation systems. We will be able to compare the frequency of *Phytophthora* detection between the two irrigation systems. Any differences could have implications for the safe use of surface water for irrigation. With baits placed in both the waterway and at the irrigation emitters, we can confirm that there was *Phytophthora* present in the waterway even if none is detected in the orchard. Due to the exploratory nature of this sampling, if no *Phytophthora* is detected coming through the irrigation systems it will necessitate more intensive irrigation emitter sampling in the future to verify that *Phytophthora* is not passing through these irrigation systems.

Activities:

- Select orchards from Objective 2 which use surface water for irrigation, half of which use microsprinklers and half of which use impact sprinklers
- Select a subset of these orchards (2-5 microsprinkler and 2-5 impact sprinkler) for bait-sampling of the adjacent waterway at the irrigation intake point
- June and August/September: bait-sampling of irrigation emitters in each orchard and bait-sampling of irrigation intake point

Deliverables:

- Update of the *Phytophthora* species detected by bait sampling after each sampling time. All *Phytophthora* isolates obtained by baiting will be identified to species.

- Final report will include:
 - Comparison of frequency of *Phytophthora* detected from different irrigation systems (impact sprinkler vs microsprinkler)
 - Comparison of the *Phytophthora* species detected at the irrigation emitter vs at the irrigation intake point

Final Report

In addition to the deliverables listed above, the final report will include

- Discussion of apparent levels of risk posed by *Phytophthora* to SEWD orchards
 - Does irrigation water source (surface water vs groundwater) change this risk?
 - Does irrigation system (microsprinkler vs impact sprinkler) change this risk?
- Matrix of rootstocks and cultivars known to be affected by the *Phytophthora* species found in waterways and orchards
- Discussion of irrigation management and its importance in managing disease caused by *Phytophthora* in orchards
- Discussion of irrigation management practices based on findings

BUDGET

Sequencing**	\$ 8,600
High-throughput sequencing of filter and soil samples	\$ 6,264
Sequence identification of irrigation emitter bait samples	\$ 2,336
Materials*	\$ 12,115
Processing of filter and soil samples	\$ 10,420
Processing of bait samples	\$ 1,695
Personnel (176 hours of technician effort)**	\$ 5,378
48 hrs for bait sample processing x 2 timepoints	
80 hrs for filter and soil sample processing at end of sampling period	
Travel**	\$ 750
Total Direct Costs	\$ 26,843
USDA indirect costs	\$ 2,684.30
UC Davis indirect costs	\$ 1,472.80
TOTAL REQUESTED	\$ 31,000

* category subject to 10% indirect costs imposed by USDA

** category subject to 10% indirect costs imposed by USDA and 10% indirect costs imposed by UC

Table 1. Timeline

Proposed Sampling		May	Jun	Jul	Aug	Sep	Oct
Objective 1	Core waterway locations	+	+	+	+	+	+
	Additional waterway locations		#		#	#	
Objective 2	Orchard soils		#		#	#	
Objective 3	Orchard emitters		#		#	#	

+ indicates set sampling month

indicates adjustable sampling month

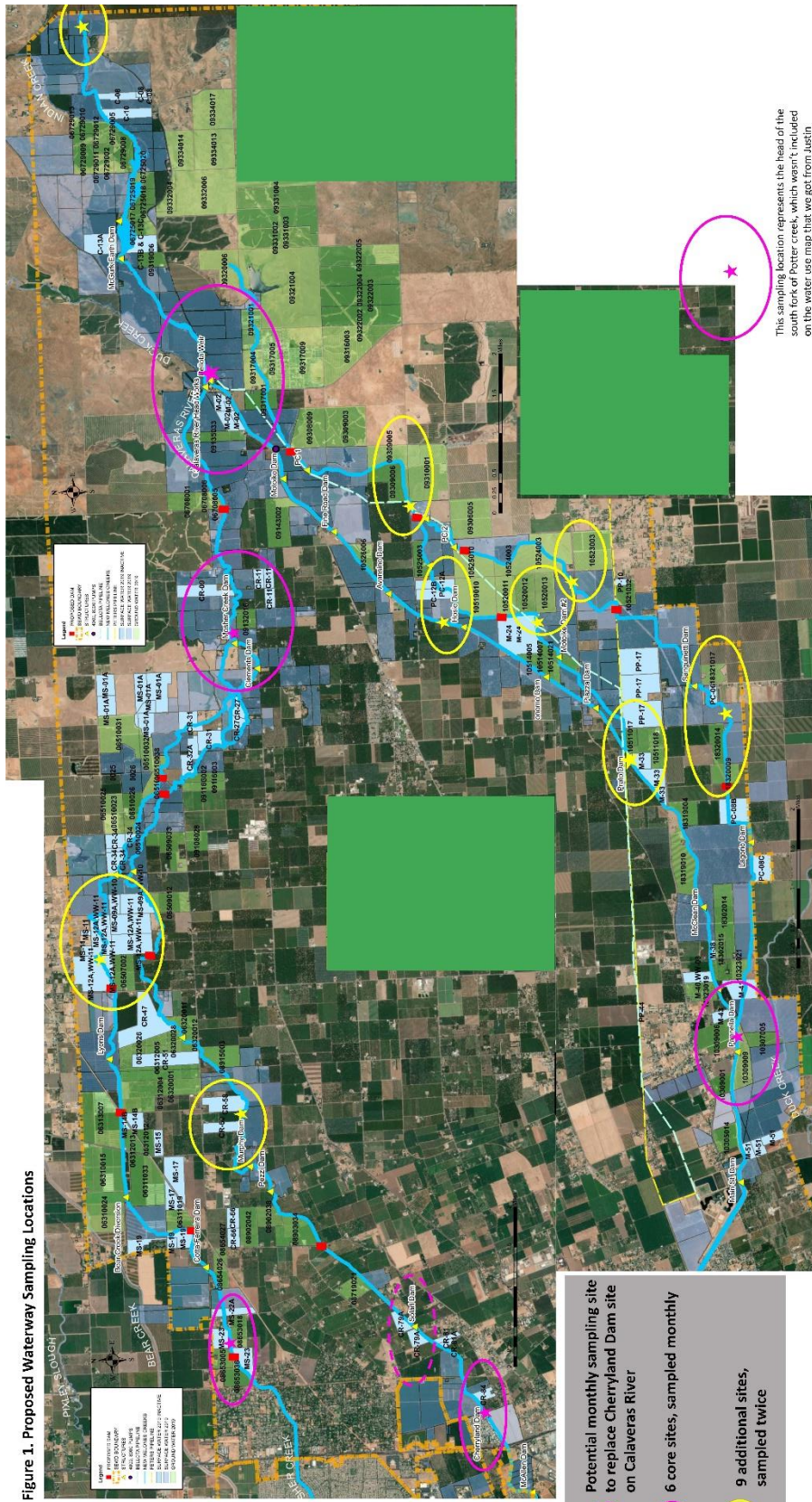


Figure 1. Proposed Waterway Sampling Locations

- Potential monthly sampling site to replace Cherryland Dam site on Calaveras River
- ★ 6 core sites, sampled monthly
- ★ 9 additional sites, sampled twice

This sampling location represents the head of the south fork of Potter creek, which wasn't included on the water use map that we got from Justin

Weekly Water Report	As of: April 19, 2021	As of: April 26, 2021
New Hogan (NHG) TOC	280,365	AF
Storage:	151,093	AF
Net Storage Change:	-1,379	AF
Inflow:	60	CFS
Release:	137	CFS
New Melones (NML) Allocation	75,000	AF
Storage:	N/A	AF
Net Storage change:	N/A	AF
Inflow:	N/A	CFS
Release:	N/A	CFS
Source: CDEC Daily Reports		

Goodwin Diversion (GDW)		
Inflow (Tulloch Dam):	1,328	CFS
Release to Stanislaus River (S-98):	834	CFS
Release to OID (JT Main):	875	CFS
Release to SSJID (SO Main):	258	CFS
Release to SEWD:	<u>127</u>	CFS
Total Release	2,094	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:	0	
Irrigators on New Melones:	0	
Out-Of-District Irrigators:	0	
DJWWTP Production:	28	MGD
North Stockton:	0	MGD
South Stockton:	7	MGD
Cal Water:	21	MGD
City of Stockton DWSP Production:	20	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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LEADERSHIP – TO – LEADERSHIP

**April 21, 2021
1:00 p.m – 2:00 p.m.**

AGENDA

- | | |
|----------------------------|---|
| I. Welcome | President Steven LaMar
Vice-President Pamela Tobin
Executive Director Dave Eggerton |
| II. Attendee Introductions | All |
| III. Open Discussion | All |
| IV. Closing Remarks | President LaMar
Vice President Tobin |

Thank you for participating in today’s meeting and please look for a survey in your email inbox shortly.

Resources

[ACWA Five Year Strategic Plan](#)

[Regions Information](#)

[January Priority Issues Update](#)

[Policy Documents](#)

[Outreach Handbook](#)

[Member Tools](#)

[Committee Information](#)

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SPECIAL MEETING NOTICE

A SPECIAL MEETING OF THE BOARD OF DIRECTORS OF THE STOCKTON EAST WATER DISTRICT WILL BE HELD AT 12:30 P.M., THURSDAY, APRIL 29, 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 Special Board Meeting, to begin at 12:30 p.m.

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

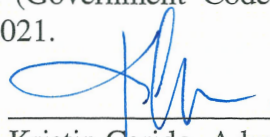
AGENDA

Page No

- A. Pledge of Allegiance (Manager Moody) & Roll Call**
- B. Consent Calendar (None)**
- C. Public Comment (Non-Agenda Items)**
- D. Scheduled Presentations and Agenda Items**
 - 1. District Activity Update/Discussion
- E. Report of the Counsel (None)**
- F. Adjournment**

Certification of Posting

I hereby certify that on April 22, 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 24 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 April 22, 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.



**STOCKTON
EAST WATER
DISTRICT**

PROVIDING SERVICE SINCE 1948

www.sewd.net

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Vice President
Division 1

Andrew Watkins
President
Division 2

Alvin Cortopassi
Division 3

Melvin Panizza
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