



REGULAR BOARD MEETING

SEPTEMBER 06, 2016



MEETING NOTICE

THE REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE STOCKTON EAST WATER DISTRICT WILL BE HELD AT NOON, TUESDAY, SEPTEMBER 6, 2016 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 Lopez, Administrative Services Manager (209) 948-0333 at least 48-hours in advance for assistance so the necessary arrangements can be made.

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

AGENDA

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A.	Pledge of Allegiance (Director McGaughey) & Roll Call	
B.	Consent Calendar (None)	
C.	Public Comment (Non-Agenda Items)	
D.	Scheduled Presentations and Agenda Items	
	1. Minutes 08/30/16 Regular Meeting	01
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F.	Report of the General Manager	
	1. Water Supply Report as of 08/29/16	19
	2. Information Items	
	a. Material Included, but Bound Separately from Agenda Packet:	

DIRECTORS

Richard Atkins
Division 1

Andrew Watkins
Division 2

Alvin Cortopassi
Division 3

Melvin Panizza
Division 4

Paul Sanguinetti
President
Division 5

Loralee McGaughey
Division 6

Thomas McGurk
Vice President
Division 7

STAFF

Scot A. Moody
General Manager

Michael D. Johnson
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

1. California Supreme Court Requires State To Fund Local Stormwater Programs: Funding Sources Potentially Impacted For Cities And Counties, Best Best & Krieger Attorneys At Law, 08/29/16
2. Little Hoover Video Now Available, California Special Districts Association, 08/30/16
3. San Joaquin County Farm Bureau Water Committee – State Water Resource Control Board Water Right Permittee/Licensee Reporting & Comments On Measurement & Reporting, 08/30/16
4. Project Aims To Feed Delta Smelt – ‘They’re Starving To Death’, The Sacramento Bee, 08/31/16
5. Wolk’s Water Bill Goes To Governor, The Davis Enterprise, 08/31/16
6. This Wealthy Farmer Is Taking On Sacramento: ‘God Help You If You Disagree With Him’, The Sacramento Bee, 08/28/16
7. No More Water From Melones, The Linden Herald, 08/18/16
8. Agency Gives Oakdale Irrigation District The OK To Annex, Provide Water To Border Parcels, The Modesto Bee, 08/25/16
9. Recycled Water Project Launches On West Side, The Modesto Bee, 08/26/16

3. Report on General Manager Activities

G. Director Reports

1. Greater Stockton Chamber of Commerce Monthly Mixer – Atria 21
Bayside Landing, 09/01/16

H. Communications

I. Agenda Planning/Upcoming Events

1. San Joaquin County Agricultural Drought Task Force Meeting, 9:00 a.m.,
09/07/16
2. San Joaquin County & Delta Water Quality Coalition Meeting, 9:00 a.m.,
09/12/16

J. Report of the Counsel

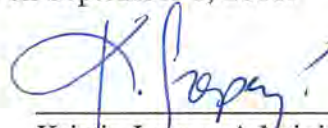
1. Closed Session - Existing Litigation
California Water Service Company,
City of Stockton & Stockton East Water District vs. Central San
Joaquin Water Conservation District
Government Code 54956.9 (a)

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

K. Adjournment

Certification of Posting

I hereby certify that on September 1, 2016 I posted a copy of the foregoing agenda in the outside display case at the District Office, 6767 East Main Street, Stockton, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the Stockton East Water District (Government Code Section 54954.2).
Executed at Stockton, California on September 1, 2016.



Kristin Lopez, Administrative Services Manager
Stockton East Water District

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

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THE REGULAR MEETING OF THE BOARD OF DIRECTORS
OF STOCKTON EAST WATER DISTRICT WAS HELD AT THE DISTRICT OFFICE
6767 EAST MAIN STREET, STOCKTON, CA
ON TUESDAY, AUGUST 30, 2016 AT 12:00 NOON

A. PLEDGE OF ALLEGIANCE AND ROLL CALL

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

Present at roll call were Directors Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti and Watkins. Also present were Manager Moody, Assistant Manager Johnson, District Engineer Lee, Finance Director Naray, Administrative Assistant Lopez, Administrative Clerk Curtis and Legal Counsel Zolezzi.

B. CONSENT CALENDAR (None)

C. PUBLIC COMMENT (None)

D. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Minutes 08/23/16 Regular Meeting

A motion was moved and seconded to approve the August 23, 2016 Regular 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 91 – Vehicle Fund
- e. Fund 94 – Municipal & Industrial Fund
- f. Summary
- g. Short Names/Acronym List
- h. SEWD Vehicles & Heavy Equipment

President Sanguinetti inquired on the expense description on page 16, line item 35 for Lovotti Inc. for parts, labor and service call charge to repair HVAC at meat locker and advised staff to reference the correct location name for use in the expense description.

Director McGurk inquired on the expenses on page 11, line items 10 – 11 for Mid Valley Agricultural Services for herbicide used on Upper and Lower Farmington Canal in the amounts of \$140.36 respectively. President Sanguinetti replied the invoice cost was split 50% for use on the Upper and Lower Canal.

Director Atkins inquired on the expense on page 11, line item 6 for Grainger, Inc., for replacement phones for the Goodwin Tunnel Inlet in the amount of \$19.49. Manager Moody replied the District has a landline and this is the most reliable source of communication in this area for use in emergencies.

Director Atkins inquired on the expense on page 13, line item 1 for Diamond Mowers Inc., for parts to repair mower attachment on Unit #38 in the amount of \$1,347.31. Finance Director Naray replied the expense was for the purchase of shaft bearings and replacement belt.

Manager Moody reported delivery of the new forklift recently purchased by the District has been delayed one more month; and staff has been advised to research all potential discounts the District can utilize towards the rental costs.

A motion was moved and seconded to approve the August 30, 2016 Warrants, as presented.

Roll Call:

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

3. Resolution No. 16-17-07 – Approving the Disposal of Surplus Property

Manager Moody provided the Board with Resolution No. 16-17-05 – Approving the Disposal of Surplus Property for a 1992 forklift; computer tower; office chairs and file cabinets. Manager Moody reported the surplus of file cabinets is result of storing District documents electronically; the computer tower has been wiped-clean and the forklift will be sent to auction.

A motion was moved and seconded to approve Resolution No. 16-17-07 – Approving the Disposal of Surplus Property.

Roll Call:

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

4. SunEdison Solar Power Purchase Agreement (PPA) Update

Manager Moody provided the Board with information and handouts of the SunEdison Solar Power Project preliminary design. District Engineer Lee reported on the Project status to date. District Engineer Lee reported SunEdison conducted the onsite Phase 1 Environmental Site Assessment and the next step is to obtain soil core boring samples to develop the structural design for the solar panel supporting piles. The Project's preliminary schedule indicates construction to begin October 7, 2016, Project completion by December 16, 2016 and operational declaration for January 17, 2017.

Manager Moody provided an update of the ongoing SunEdison bankruptcy case; and reported SunEdison Origination1, LLC, (the Company the District entered into Agreement with for the Solar Project) was not one of the entities listed in the bankruptcy documents.

Fritz Buchman, Deputy Director of Development for San Joaquin County Public Works reported this bankruptcy has incurred major delays for the County to become operational with the solar that was installed last April. Mr. Buchman reported the bankruptcy has hindered their ability to sell the project, which was the plan from the beginning.

Director Cortopassi inquired on the location of the County's solar project. Mr. Buchman replied they are the panels covering the parking lot behind the County's facility located at 1810 Hazelton Avenue in Stockton.

Director Cortopassi inquired on the preliminary design map (handout) and if a pipeline runs on the Solar Project projected site. District Engineer Lee replied the District's pipeline is located on the east side of the property running north to south; however, there may be irrigation lines.

Director Watkins inquired if the west solar panel can be relocated and be stacked on top (north) of the east panel. Director Watkins commented the panels set side-by-side could create a barrier to access water from the pond, especially if the District begins recharging from the pond on the property. Manager Moody reported staff will advise SunEdison to edit the preliminary design and stack the panels. This item was for information only.

5. California Department of Fish & Wildlife – Routine Maintenance Agreement (RMA) No. 1600-2009-0218-R2 Update

Manager Moody provided the Board with an update on the status of the District's California Department of Fish & Wildlife (CDFW) Routine Maintenance Agreement (RMA). Manager Moody reported staff filed for an extension on June 6, 2016 and CDFW has advised an environmental review of the entire system would be required. Manager Moody reported CDFW conveyed they will provide the District with a two-year extension; however, an environmental review must be completed before the extension expires.

Director Cortopassi inquired if this is specifically for the Giannecchini diversion. Manager Moody replied not specifically, the RMA provides the District the right to the watershed to conduct routine maintenance on our existing facilities.

Director Watkins inquired how the environmental review complies with the District's Habitat Conservation Plan (HCP) that is currently in draft. Legal Counsel Zolezzi replied if the HCP can be put in place, it will help the RMA environmental review process much easier.

Director Watkins inquired if CDFW has changed this industry wide. District Engineer Lee reported the District re-applied for the RMA five-years ago and was required to comply with California Environmental Quality Act (CEQA) however, the District filed Categorical Exemption. District Engineer Lee reported because of the size of the Project the CDFW has advised this should not be considered Categorical Exempt and rather should complete the CEQA analysis. Director Watkins inquired if this is direction from the state or federal level. District Engineer Lee replied the direction is from state level. This item was for information only.

E. COMMITTEE REPORTS

1. San Joaquin Farm Bureau Federation – Water Committee Meeting, 08/23/16

Manager Moody attended the August 23, 2016 San Joaquin Farm Bureau Federation – Water Committee Meeting. Julianne Philips, San Joaquin Farm Bureau reported primary discussions focused on the Joint Powers Agreement (JPA) draft received from the Sustainable Groundwater Management Act (SGMA) drafting group (specifically voting and funding). Ms. Phillips also reported the Farm Bureau is currently working on an Aquatic Invasive Species Grant Opportunity.

Director Cortopassi inquired on the State Water Resources Control Board (SWRCB) dredge and fill procedures. Ms. Philips replied this is the state process that mirrors the Waters of The United States (WOTUS) rule; it creates a state process that directly mirrors the federal process. Ms. Philips reported this new state process includes the United States Army Corps of Engineers (USACE) 404 Permit exemptions for agricultural activity and; if WOTUS will encompass agricultural activity then Permit from the USACE will be required in addition to paying a fee to the SWRCB to receive a state permit. The next meeting is scheduled for September 27, 2016.

2. Sustainable Groundwater Management Act Workgroup AD HOC Technical Review Committee Meeting, 08/24/16

District Engineer Lee attended the August 24, 2016 Sustainable Groundwater Management Act (SGMA) Workgroup AD HOC Technical Review Committee Meeting. District Engineer Lee reported the consulting firm LAND IQ gave a presentation on land use and cropping patterns developed from satellite surveys to determine applied water demands. District Engineer Lee reported LAND IQ is working with the Department of Water Resources to provide land use information for agencies for future predictions of groundwater use. District Engineer Lee reported GEI Consultants Inc., provided a handout of a flow chart listing the responsibilities or items that need to be included as part of SGMA Legislation, and lists future monitoring requirements and necessary items for the water budget. District Engineer Lee reported the flow chart was color coded to allow agencies to identify the parties responsible to comply with the identified items. The next meeting is scheduled September 28, 2016.

F. REPORT OF GENERAL MANAGER

1. Water Supply Report as of 08/22/16

Assistant Manager Johnson provided a handout of the Water Supply Report that included storage, release, and production data collected from various sources as of midnight last night.

Assistant Manager Johnson reported there is 92,478 AF in storage at New Hogan Reservoir. Current releases are set at 232 cfs. There is 546,253 AF in storage at New Melones Reservoir. Current release at Goodwin Dam to Stanislaus River are set at 151 cfs and release to all water users are set at 970 cfs. The water treatment plant is currently processing 24 mgd. The City of Stockton's water treatment plant is currently processing 25 mgd. Assistant Manager Johnson reported the District Wells are offline.

Assistant Manager Johnson reported there are 16 irrigators on the New Hogan system and there are no irrigators pumping on New Melones system.

Director Cortopassi recommended editing the description of the warrants for Electricity for the District Wells by indicating "connection fee" to keep away from confusion of the Water Supply Report stating the wells are offline, but expenses for electricity that are presented in the warrants for payment are for electricity connection fees.

2. Information Items:

Manager Moody noted items: F2a-1, F2a-2, F2a-3, F2a-4, F2a-5, F2a-6, F2a-7, F2a-8, F2a-9 and F2a-10.

Director McGurk inquired on F2a-6, if the state and the County will have dueling economic reports on the unimpaired flows from the tributaries on the San Joaquin River. Brandon Nakagawa replied

yes, the state report includes a macro scale economy and the County's report will drill down and focus on the direct local impacts.

3. Report on General Manager Activities (None)

G. DIRECTOR REPORTS (None)

H. COMMUNICATIONS (None)

I. AGENDA PLANNING/UPCOMING EVENTS

1. Greater Stockton Chamber of Commerce Monthly Mixer – Atria Bayside Landing, 5:15 p.m., 09/01/16
2. District Holiday – Labor Day, 09/05/16

J. REPORT OF THE COUNSEL

1. Closed Session - Potential Litigation
Government Code 54956.9 (c) – two cases

President Sanguinetti adjourned the meeting to closed session at 1:05 p.m. to discuss closed session agenda items. District staff, with the exception of Manager Moody and Assistant Manager Johnson, was excused from the Closed Session Meeting at 1:11 p.m. The regular meeting reconvened at 1:28 p.m., with no reportable action.

J. ADJOURNMENT

President Sanguinetti adjourned the meeting at 1:29 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

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**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
CALPERS SPECIAL CHECK REQUEST
SEPTEMBER 06, 2016**

Vendor name	District Account # Fund#	Description	Amount	Invoice No.
1 CA Public Employees Retirement System (Calpers)	70 10-5049-0	UAL Calpers retirement contributions Sep2016 Admin.	7,291.37	UAL Sept 2016
2 CA Public Employees Retirement System (Calpers)	70 10-5049-0	Retirement contributions Payroll 082616 Admin	5,021.25	08/26/16 1245106351
		Total Fund 70 Admin	\$ 12,312.62	
1 CA Public Employees Retirement System (Calpers)	71 10-5049-0	UAL Calpers retirement contributions Sep2016 WS-NM	3,424.60	UAL Sept 2016
2 CA Public Employees Retirement System (Calpers)	71 10-5058-0	UAL Calpers retirement contributions Sep2016 WS-NH	1,013.34	UAL Sept 2016
3 CA Public Employees Retirement System (Calpers)	71 10-5049-0	Retirement contributions Payroll 082616 WS-NM	2,825.65	08/26/16 1245106351
4 CA Public Employees Retirement System (Calpers)	71 10-5058-0	Retirement contributions Payroll 082616 WS-NH	937.58	08/26/16 1245106351
		Total Fund 71 Water Supply	\$ 8,201.17	
1 CA Public Employees Retirement System (Calpers)	94 10-5049-0	UAL Calpers retirement contributions Sep2016 M&I	11,300.94	UAL Sept 2016
2 CA Public Employees Retirement System (Calpers)	94 10-5049-0	Retirement contributions Payroll 082616 M&I	11,369.79	08/26/16 1245106351
		Total Fund 94 Municipal & Industrial	\$ 22,670.73	
		Grand Total for Special Check Request on RBM 08/06/16	\$ 43,184.52	

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Memorandum

To: Scot Moody – General Manager
From: Michael Johnson – Assistant General Manager
Cathy Lee – District Engineer
Jim Wunderlich – Water Treatment Plant Manager
Juan Ochoa – Associate Engineer
Date: 08/26/2016
Re: Liquid Alum Storage Tank (T-2) Replacement Update

Background

The T-2 chemical storage tank was constructed in 1977. The tank is 10 feet in diameter by 31 feet tall with a capacity of 18,000 gallons on a 12-foot diameter pad in the District's "tank farm". Over the years, staff has repaired several leaks on the tank, replaced the interior liner 3 times and patched numerous holes. The tank is beyond its useful life and staff informed the Board at its June 14th, 2016 meeting of the need to replace the tank. The Board directed staff to research different tank materials to assess the best type for alum storage.

Tank Replacement Considerations

Due to alum's corrosiveness, three types of tank material are predominant in alum storage for water treatment process, fiberglass reinforced plastic (FRP), high density polyethylene (HDPE), and carbon steel. Mainly, the tanks need to meet NSF-61 standards for materials used in drinking water treatment. FRP tanks are made in the factory with a mold and the size can vary. HDPE tanks are manufactured in the similar manner but without the fiberglass reinforcement. As such, HDPE tanks with 10 foot diameters are generally shorter with less capacity to ensure structural integrity. Typically, both FRP and HDPE tanks have a factory applied polymer liner that will need to be re-applied every 10 years to extend the life of the tank. Carbon steel tanks require a rubber liner and can be welded onsite.

Staff contacted more than 15 tank manufacturers and 7 surface water treatment plants in the area to understand the market conditions. HDPE and FRP tanks range from \$40,000 to \$60,000 and steel tanks range from \$30,000 to \$80,000. The broad cost range for the steel tank is due to the scarcity of available manufacturers to provide quotes. Most of the surface water treatment plants use FRP tanks and some of them have been in place for more than 10 years.

For ease of installation of the new tank, staff proposes that the new tank be constructed on the existing empty concrete pad. The empty pad is 14 feet in diameter which would allow a new tank of similar capacity to be wider and shorter

(squattier). The advantages to use the empty pad are 1) supporting continuous WTP operations with 2 existing alum tanks in place while the new one is under construction and 2) allowing shorter and wider tanks so the District can choose the best fit and best price tank.

In the Request for Bid, staff will include specifications that all tank types would need to meet the following parameters including: NSF certifications, chemical compatibility, temperature requirements, structural integrity (for wind, snow, and seismic loads), warranty period, and prior performance. For each type of tank, staff would also develop more stringent requirements tailored for the material, to ensure manufacturers provide comparable tanks. The bids would include 1) new plumbing to tie into the chemical feed system, 2) preparation of the existing concrete pad for the new tank, and 3) dismantling and disposal of the existing tank.

Based on the tank quotes and other construction related costs, the estimated cost to replace the existing T-2 tank ranges from \$125,000 to \$150,000.

Recommendations:

Staff recommends replacing the existing tank with a competitive bidding process via a performance specification method where the District specifies the requirements of the new tank. Prior to bidding, staff would request authorization from the Board for advertisement of bidding documents.

Memorandum

To: Scot Moody – General Manager
From: Michael Johnson – Assistant General Manager
Cathy Lee – District Engineer
Date: 09/01/2016
Re: 2015 Agricultural Water Management Plan – California SBX7-7
Compliance

Background

As part of the District's Central Valley Project (CVP) contract with the U.S. Bureau of Reclamation (USBR), the District is required to submit an agricultural water management plan (AWMP or Plan) every 5 years. The due date of the next plan is 5 years following the approval date when the Plan is published in the Federal Register process. The District most recent AWMP was initially completed on December 30, 2011. The second draft, third draft, and final report were completed on December 21, 2012, April 26, 2013, and January 24, 2014, respectively. With the approval of the most recent AWMP in the August 20, 2014 Federal Register, USBR staff specifically indicated that the District's next plan is not due until 2019.

In November 2009, California state legislature enacted Senate Bill X7-7 requiring all water suppliers to increase water use efficiency. The bill requires agricultural water suppliers prepare and adopt agricultural water management plans by December 31, 2012 and update those plans by December 31, 2015, and every 5 years thereafter. The plans are to be submitted to Department of Water Resource (DWR) but DWR does not take any regulatory actions in formally approving the plans.

In the years of revising the federal AWMP, 2011 – 2013, California's SBX7-7 went into effect. At that time, DWR would accept federally approved AWMP for the December 31, 2012 submittal. Since the District's plan was not formally approved until 2014, DWR accepted the District's federally approved 2014 plan to satisfy the 2012 plan submittal requirement. SBX7-7 does not allow DWR staff to change the due dates for the AWMP, and therefore, December 31, 2015 is due regardless of the date of the 2012 Plan. The District's 2015 AWMP is now past due. Without complying with the AWMP requirements, the District is not eligible to receive any state grants.

To satisfy the SBX7-7 AWMP requirement, Dr. Mark Roberson submitted a scope of work to the District to prepare the 2015 AWMP in accordance with DWR's guidance. Dr. Roberson has contracted with DWR and USBR in assisting their staff in reviewing AWMPs and is knowledgeable in agricultural water management practices. In his scope of work, there is an optional task to develop documentation

to satisfy USBR's current AWMP requirements. By completing federal's AWMP requirements, this would allow the District to submit both state and federal compliant AWMP at the same time and be able to coincide future submittals. The cost for Dr. Mark Roberson's scope of work is \$29,500 to develop a DWR compliant AWMP and \$47,500 including the optional task.

This item was not specifically budgeted in the current budget but there is sufficient funding, \$50,000, under Professional Services – Planning in the Administration Fund to cover the cost. As of June 30, 2016, this budget is 0% spent. Planned charges for this budget are grant applications, which are pending upon successful approval of the 2015 AWMP.

Recommendation

Staff recommends the Board approving a contract with Dr. Mark Roberson in the not to exceed amount of \$47,500 to complete an AWMP in accordance with both state and federal requirements.

Memorandum

To: Scot Moody – General Manager
From: Michael Johnson – Assistant General Manager
Cathy Lee – District Engineer
Date: 09/01/2016
Re: Upper Farmington Canal Slide Repair

Background

The Upper Farmington Canal was originally constructed in 1990 by cutting through the adjacent hillsides. Over the years, the area has regularly experienced slope failures. Staff performed small repairs by removing eroded soils, compacting the area when necessary, and installing a v-ditch at the toe of the embankment on the canal access road. The ditch prevented water from seeping into the canal but it also captured eroding soil material sloughing off from the hillsides.

In January 1995, the north slope suffered a significant landslide approximately 400 feet long with multiple scarps. Woodward Clyde Consultants, performed an investigative analysis and concluded that the failure plane was at the base of a slickensided claystone of the lone Formation where it overlies a more stable shaley silty claystone. The slickensided claystone was saturated and evidence of artisan conditions in the lower shaley claystone existed due to the intense rainstorms at that time. The repairs consisted of grading the area with imported materials and disposing of the slide material. Woodward Clyde Consultants recommended continuous monitoring of the area as the exposed claystone will continue to erode in rainstorms.

In January 2016, staff discovered a scarp in the south bank of the Upper Farmington Canal (UFC) to the east of Church Spring Road in Stanislaus County. The scarp was 7 feet wide and about 100 feet long, as shown in Figures 1 and 2 below:



Figure 1 – UFC slide area, January 2016



Figure 2 – UFC slide area, May 2016

UFC Slide Repair

In May 2016, staff accompanied Dr. Carl Henderson from Kleinfelder to the slide area to identify and develop remedies. (Kleinfelder assisted Woodward Clyde Consultants in evaluating the materials and compaction testing for the repairs performed in 1995.) During the investigation, Dr. Henderson took soil and rock samples and discussed with staff other erosions along the banks and previous repairs. Kleinfelder developed a remedy for staff to perform the repair (Figure 3) and subsequently submitted a proposal to investigate the claystone layer(s) as a basis of recommendations for future embankment slope stabilization and drainage improvements. The proposed scope of work for this geotechnical study is \$46,425.



Figure 1 – UFC slide area after repair, June 2016

Based on years of experience in our history of repairs, staff concluded that good drainage in the area is essential. Staff developed a drainage plan to route water away from the area. This includes:

- Re-cut the v-ditch on the south side of the canal access road abutting the embankment,
- Clean out and re-cut the existing ditch on top of the hillside in the adjacent property,
- Replace existing two 6-inch drain pipes (one pipe has collapsed and the other needs to be repaired) from top of the embankment to the v-ditch down below, and
- Level existing spoil piles accumulated from previous erosions.

The costs to perform the above work is approximately \$15,000 with about \$14,000 in equipment rental and \$1,000 in material including road base and rip rap. The proposed drainage repair would be done by about 5 District personnel for a period of 2 weeks.

Conclusion

Based on previous studies and observation by Dr. Henderson of Kleinfelder, the embankment of the hillside which the canal is cut through will continue to erode due to the native claystone being exposed to atmosphere. Dr. Henderson noted that:

“recent studies performed on some of the Lone Formation sandstones have found they are actually composed of smectite clay in an

amorphous silica cement that slowly dissolves resulting in latent soil heaving behavior that can be delayed for years (California Geological Survey, 2009). This delayed heaving behavior can also result in slope failures many years after the formation has been exposed on excavated slopes.

The drainage plan proposed by staff to route water away from the area is a short term solution, but future landslide from the adjacent hillside embankment and/or within the canal would most likely still occur in the long term. Kleinfelder's study will provide a sound approach to a long term solution but would require additional funding. Based on the Board's direction, staff could implement either or both solutions.

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Recording Requested By:
STOCKTON EAST WATER DISTRICT
When recorded mail to:
STOCKTON EAST WATER DISTRICT
P O Box 5157
Stockton, California 95205

**NOTICE OF ACCEPTANCE OF COMPLETION
STOCKTON EAST WATER DISTRICT**

NOTICE IS HEREBY GIVEN:

1. That the name and address of Stockton East Water District for whom the work was done, as owner thereof, is:

Stockton East Water District
6767 East Main Street
Stockton CA 95215

2. That on September 6, 2016 the hereinafter-described project was accepted as completed pursuant to motion of the Board of Stockton East Water District, the awarding authority.
3. That the project, the subject of this notice, is generally described and identified as follows: Sludge Removal Project. This project involved the dredging of sludge from operating ponds and conveyance/pumping of sludge to an identified on-site sludge disposal area.
4. Project Location: (APN) 101-170-35 – 6767 East Main Street Stockton, CA 95215.
5. That the name of the contractor for such project was: Synagro-WWT, INC.

Dated: September 6, 2016

Stockton East Water District

DRAFT

By: _____
General Manager

VERIFICATION

I, undersigned, say: I am the General Manager, the declarant of the foregoing Notice of Acceptance of Completion; I have read said Notice of Acceptance of Completion and know the contents thereof; the same is true of my own knowledge. I declare that under penalty of perjury that the foregoing is true and correct. Executed on September 6, 2016 at Stockton, California.

DRAFT

By: _____
General Manager

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Weekly Water Report	As of: Aug. 29, 2016	As of: Sept. 5, 2016
New Hogan (NHG) TOC	317,100	AF
Storage:	92,478	AF
Net Storage Change:	-3,383	AF
Inflow:	37	CFS
Release:	232	CFS
Projected Storage in October 2016	~75,000	
New Melones (NML) Allocation		0 AF
Storage:	546,253	AF
Net Storage change:	-3,409	AF
Inflow:	796	CFS
Release:	867	CFS

Source: CDEC Daily Reports

Goodwin Diversion (GDW)		
Inflow (Tulloch Dam):	840	CFS
Release to Stanislaus River (S-98):	151	CFS
Release to OID (JT Main):	555	CFS
Release to SSJID (SO Main):	264	CFS
Release to SEWD:	<u>0</u>	CFS
Total Release	970	CFS

Source: Tri-Dam Operations Daily Report

Farmington Dam (FRM)		
Diverted to SEWD:	0	CFS
Diverted to CSJWCD:	0	CFS

Source: USACE WCDS Hourly Report

Surface Water Used		
Irrigators on New Hogan:	16	
Irrigators on New Melones:	0	
DJWTP Production:	24	MGD
City of Stockton DWSP Production:	25	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

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Serving Business in
San Joaquin County
Since 1901

Greater Stockton Chamber of Commerce September Mixer



**Atria Bayside Landing, September 1, 5:15 -7:15 p.m.
3318 Brookside Road, Stockton, 95219**

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