YCFC&WCD BOARD OF DIRECTORS

April 4, 2023



FLOOD CONTROL & WATER CONSERVATION DISTRICT

Adoption of the March 7 Regular and March 14, 2023 Special Board Meeting Minutes

Open Forum

Guest introductions, unscheduled appearances and opportunity for public comment on non-agenda items

Adding Items to the Posted Agenda

Rate Setting Framework and Guiding Principles

District's Revenue Stabilization Program

- Phase 1: Special Benefit Assessment Fixed revenue to fund capital improvement projects
- Phase 2: Updated Agricultural Water Rate Operational costs
- Phase 3: Future Groundwater Charge Operational costs (to provide an offsetting reduction in ag water rate)

Special Benefit Assessment

- ~\$0.952M
- Intended to be levied annually for capital improvements
- Not for fixed expenses (admin., O&M, etc.)
- Board's Annual Review of Capital Projects
- Can be used for cost share grant opportunities (capital projects)

Ag Water Rate: Flat Rate Structure Components

- Establish **base rate** to cover net direct expenses in all nonallocated years at minimal expected sales of 110k AF
- Build sufficient drought reserves to cover two years of net direct expenses during allocated/no sales years
- Eliminate recent accrued cash deficit of \$1.0M from prior insufficient revenues through a short-term capital recovery charge

Flat Rate Structure Components

- Base rate = \$39/AF
- Drought reserve = \$15.50/AF
- Short-term capital recovery charge = \$1.80/AF

 Proposed Water Rate (for consideration of adoption at 5/2 BOD Meeting) = \$56.30/AF

Short-Term Capital Recovery Target

- Maximum Charge = \$1.80/AF (can be reduced)
- Infrastructure Funds (Loan Debt) Used for 2021/2022
 Operations ~ \$1M
- Assumes sales of 110 TAF/year
- Assumes collection over a 5-year unallocated period

 Annual Charge will be reduced, or not imposed, once Target (\$1M) is met

Drought Reserve Target

- Maximum Charge = \$15.50/AF (can be reduced)
- Two-years of Ag Water Expenses: ~\$8.5M
- Assumes sales of 110 TAF/year
- Assumes collection over a 5-year unallocated period

 Annual Charge will be reduced, or not imposed, once Drought Reserve Target (\$8.5M) is met

Drought Reserve Policy

- Will be accounted for in the District's annual financial statements
- Annual Budget Setting Process will report:
 - Drought Reserve Total
 - Anticipated Annual Budget Set-Aside or Reserve Usage
 - Risks and Opportunities

Potential Scenarios

Assuming 5 Unallocated Years (U) and 2 Dry Years (D)

Ag Water Sales	Year 1 (U)	Year 1 (U) Year 2 (U)		Year 4 (U)	Year 5 (U)	Year 6 (D)	Year 7 (D)	
	\$15.50	\$15.50	\$15.50	\$15.50	\$15.50	\$0	\$0	
110 AF	\$1,705,000	\$1,705,000	\$1,705,000	\$1,705,000	\$1,705,000	\$0	\$0	
	\$1,705,000	\$3,410,000	\$5,115,000	\$6,820,000	\$8,525,000	\$4,262,500	\$0	
			Water Rate	= \$39 + \$1	.80 + \$9.86	= \$50.66		
	\$15.50	\$15.50	\$15.50	\$15.50	\$9.86	\$0	\$0	
120 AF	\$1,860,000	\$1,860,000	\$1,860,000	\$1,860,000	\$1,085,000	\$0	\$0	
	\$1,860,000	\$3,720,000	\$5,580,000	\$7,440,000	\$8,525,000	\$4,262,500	\$0	
					Water Rate	= \$39 + \$1	.80 - \$1.41	= \$39.39
	\$15.50	\$15.50	\$15.50	\$15.50	(\$1.41)	\$0	\$0	
140 AF	\$2,170,000	\$2,170,000	\$2,170,000	\$2,170,000	(\$155,000)	\$0	\$0	
	\$2,170,000	\$4,340,000	\$6,510,000	\$8,680,000	\$8,525,000	\$4,262,500	\$0	

Expenditure Summary

	FY 23/24*	Total Direct Expense – 5-yr Projection							
Agricultural Water Operations	\$2.316M		FY 24/25	FY 25/26	FY 26/27	FY 27/28			
Agricultural Water G&A Allocation	\$1.887M	23/24*							
Agricultural Water Capital Improvement	\$1.715M		\$6.09M	\$6.28M	\$6.47M	\$6.66M			
Total Direct Expenses	\$5.918M								

*Estimated and subject to change as District budget is established

- Key Expense Assumptions
 - FY23/24 expense projections utilize FY22/23 budget with some adjustments based on historical averages to better represent an 'average' water year.
 - FY 23/24 budgets may change during budget setting process depending on expected water sales.
 - Capital projects apportioned to agricultural water based on type of service each project supports; annualized over life of project.
 - G&A apportioned to agricultural water based on the proportional service provided across agwater, non-ag-water, and non-water services.
 - Drought reserve expense not shown here.

Expenditure Summary

	Fiscal Year 23/24*
Total Direct Expenses	(\$5.918M)
Tax Apportionment Revenue	\$1.028M
Special Benefit Assessment Revenue	\$0.952M
Net Direct Expenses	(\$3.938M)

* Estimated and subject to change as District budget is established

- Key Expense Assumptions
 - Net direct expenses do not consider revenue from water sales
 - Independent of drought reserve considerations
 - One-year period, but COS study projected 5-years with allowable cost escalation

Expenditure Summary + Revenue Scenarios

	Fiscal Year 23/24*
Total Direct Expenses	(\$5.918M)
Tax Apportionment Revenue	\$1.028M
Special Benefit Assessment Revenue	\$0.952M
Net Direct Expenses	(\$3.938M)

* Estimated and subject to change as District budget is established

	Ag Water Sales Scenarios					
	Rate (\$/AF)	110 TAF	120 TAF	140 TAF		
Base Rate =	\$39.00	\$4,290,000	\$4,680,000	\$5,460,000		
Drought Reserve Charge =	\$15.50	\$1,705,000	\$1,860,000	\$2,170,000		
Short-term Capital Recovery =	\$1.80	\$198,000	\$216,000	\$252,000		

Base Rate Revenue Delta

	Ag Water Sales Scenarios						
	110 TAF	120 TAF	140 TAF				
Potential Base Rate Revenue (\$39/AF) =	\$4,290,000	\$4,680,000	\$5,460,000				
Direct Expenses =	(3,938,000)	(3,938,000)	(3,938,000)				
Delta =	\$352,000	\$742,000	\$1,522,000				

Considerations for "Excess" Base Rate Revenue

- Emergency situations (hazards, etc.)
- What if operating expenses are an additional \$400k?
- Potential to transfer funds to short-term capital and/or drought reserve fund?
- Desire to pay off loan debt faster (\$5.5M)?

Directors' Reports

Report on Meetings and Conferences Attended During the Prior Month on Behalf of the District

i. Water Customer Meeting (3/15) ii. NCWA BOD Meeting and Dry Year Task Force Meetings iii. YSGA BOD Meeting (3/20)

Attorney's Reports

Report on Legal Matters of Concern to the District

General Manager's Report

- Water Conditions Report
- Financial Report Summary
- Capital Improvement Program
- General Activities
- YSGA Update
- Upcoming Events

Current Water Conditions (04-04-23)

	Elevation	<u>Available</u>	<u>2022</u>
Clear Lake			
 April 4 	7.91'	150,000 AF	0.37' (0 AF)
March 4	5.44'	61,387AF	
 Total Gain 	2.47'	88,613 AF	
Indian Valley Reservoir			
 April 4 	1,453.37'	186,600 AF	1,393.34' (49,350 AF)
March 4	1,432.84'	126,100 AF	
 Total Gain 	20.53'	60,500 AF	

Facility	Precipitation (10/1/22 – 04/04/23)
Cache Creek Dam	34.73"
Indian Valley Reservoir	32.50"
Headquarters	23.72"



Clear LK a Lakeport CA - 11450000

March 5, 2023 - April 4, 2023

Gage height, ft 🖲







Indian Valley Res a Clearlake Oaks CA -11451290

March 5, 2023 - April 4, 2023 **Reservoir storage, acre-ft**





Irrigation Season 2023 Update (as of 4/4/23)

Total Water in Storage: 336,600 AF

Full Allocation Supply: 225,000 AF

Minimum Pool Requirement in IVR: 20,000 AF

Total Water Available for 2023 Irrigation Season: 316,600 AF

Unallocated Season – Anticipated Start Date: Mid-May



Clear Lake - Lakeport (CLKC1) Reservoir Forecast Plot



NOAA / NWS / California Nevada River Forecast Center • California Department of Water Resources

- Observed - Forecast - Guidance -- Monitor Stage -- Flood Stage



Northern Sierra Precipitation: 8-Station Index, April 04, 2023

1 month Δ

Shasta ~ 23%

CURRENT RESERVOIR CONDITIONS







	We Depth t (Daily)	II M to Water Average D	Onit Histori IW in fee	cal Com	g parison	
	Well	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	<u>2014</u>
	1.	81.0	75.8	78.1	81.3	91.0
	2.		26.5	29.4	30.9	35.3
· · · · · · · · · · · · · · · · · · ·	3.		40.3	39.4	41.0	49.8
	4.		22.2	25.7	27.3	30.9
	5.			21.3	17.8	29.8
	6.			35.0	40.3	44.4
	7.				21.1	21.1
	8.					49.4
	9.					48.2
	10.					
	11.					
	12.					
	13.					
	14.					
	15s.					
ers ECHINA Davis	15d.					
	16.					
	17.					
	18.					
	19.					
	20.					
	21.					
	22.					
	23.					
	24.					
	25.					
	26.					
	27.					

We	Vell Monitoring							SCADA Links		S	Well Map		Select Date		04/04		
Depth t	to Water	Historia DTW in fee	ical Com	parison											1 2022	A 2045	
<u>Well</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>Δ 2022</u> - 2023	<u>Δ 2015</u> - 2023	
1.	81.0	75.8	78.1	81.3	91.0	102.7	101.3	88.0	88.1	87.1	87.0	98.5	115.7	110.7	5.1	-7.9	
2.		26.5	29.4	30.9	35.3	40.9	38.1	23.9	30.0	24.0	30.8	32.5	38.3	35.3	3.0	5.5	
3.		40.3	39.4	41.0	49.8	65.0	56.9	37.2	40.0	36.6	40.7	46.0	61.4	58.0	3.3	7.0	
4.		22.2	25.7	27.3	30.9	45.0	<mark>37.5</mark>	21.3	28.7	20.4	30.3	40.3	39.5	34.5	5.0	10.5	
5.			21.3	17.8	29.8	33.1	37.5	17.6	28.4	12.3	22.3	31.3	38.0	24.2	13.8	8.9	
6.			35.0	40.3	44.4	65.6	54.1	26.4	37.5	21.1	41.7	58.1	55.4	42.9	12.5	22.7	
7.				21.1	21.1	32.4	32.0	15.6	20.5	14.4	21.0	28.4	35.6	27.9	7.7	4.5	
8.					49.4	68.3	62.3	44.0	42.6	35.0	41.9	60.5	64.7	52.7	12.0	15.6	
9.					48.2	<mark>58.7</mark>	54.1	36.8	40.4	33.8	42.4	50.0	55.3	5 2.1	3.2	6.6	
10.						40.5	24.7	11.1	11.5	6.1	13.9	25.6	48.4	15.8	32.7	24.8	
11.						14.5	10.7	5.4	7.8	5.2	10.1	14.1	17.4	7.9	9.4	6.5	
12.										109.1	107.9	119.0	131.8	133.0	-1.3		
13.									54.7	44.4	55.0	74.3	79.1	61.3	17.8		
14.										7.7	10.7	10.7	10.1	8.1	2.1		
15s.										32.1	36.4	46.8	43.9	37.2	6.7		
15d.										101.0	110.4	171.9	167.8	154.5	13.4		
16.										24.4	38.1	39.3	49.9	42.2	7.7		
17.											21.3	27.6	31.3	26.2	5.1		
18.											33.1	56.6	39.6	27.8	11.8		
19.											165.5	175.3	188.6	192.0	-3.4		
20.								-	V	Vorkir	ig on	a rep	lacen	nent			
21.											117.9	128.1	136.7	135.0	1.7		
22 .													74.6	55.0	19.6		
23.													44.1	19.5	24.5		
24 .													64.5	82.8	-18.3		
25.														102.9			
26 .														98.6			
27.														40.0			
28 .														139.4			
29.														77.1			



Well Monitoring










2023 Temporary Permit for Diverting Excess Flows to Groundwater Recharge

- Diversions season: January 26 April 30, 2023
- Diversions up to 600 cfs; max of 72,000 AF
- Maintain \geq 50 cfs in Cache Creek at Yolo (100 cfs in April)
- Divert "excess" stormwater into canals and onto fields
- Fields must be part of Yolo County Irrigated Lands Program

• As of March 7, 2023: Diversions occurred for 20 days (~4,300 AF)

	Year	Diversion Days	Stormwater Diversion for Groundwater Recharge (AF)
	2016	39	11,128
N. S.	2017	41	6,210
S. C. L.	2018*	0	0
N.N.	2019	30	3,745
-	2020-2022*	0	0
	2023	20	4,300



Yolo Central Canal







Yolo Central Canal





Pleasant's Prairie Canal



WINTERS CANAL















Preliminary Financial Report

Highlights as of March 31, 2023

Preliminary Budget Summary as of 3/31/2023

Key Revenue Drivers	Year-to-Date	Budget	Difference
Agricultural Water Sales *adjustment made to Appropriated Sales so year-to-date reduced \$18,700	\$49,400	\$84,500	(\$35,100)
Non-Agricultural (M&I) Water Sales	\$211,700	\$334,200	(\$122,500)
Property Taxes	\$1,042,400	\$1,657,600	(\$615,200)
IV Dam Hydro (less fees)	\$0	\$0	\$0
Other Revenue	\$841,200	\$716,000	\$125,200
Shared Services Revenue	\$487,600	\$300,000	\$187,600
YSGA Reimbursements	\$168,000	\$275,000	(\$107,000)
Interest	\$78,300	\$20,000	\$58,300
Other	\$107,300	\$121,000	(\$13,700)
TOTAL REVENUE	\$2,144,700	\$2,792,300	(\$647,600)
Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$660,100	\$1,060,200	(\$400,100)
General Administration	\$2,216,500	\$2,147,200	\$69,300
Other Expenses	\$2,587,700	\$2,652,700	(\$65,000)
TOTAL EXPENSES	\$5,464,300	\$5,860,100	(\$395,800)

Preliminary Financial Report



Preliminary Financial Report



Month End

Zion Bank Loan Debt: Rate Covenant Includes Reserves and Flexibility of Lockbox

Capital Improvement Program

Planning for Capital Jobs

Capay Dam Bladder Replacement Project

FY 22/23 Planning Activities Related to Large Capital Jobs Almondale Flume: Emergency Repairs Project

Hungry Hollow Canal – Pipeline Extension Project



Update on Hungry Hollow Canal Pipeline Extension Project



Yolo County FC & WCD Land Use and Irrigation System Map







Almondale Flume on Winters Canal: Emergency Repairs Project



Almondale Flume on Winters Canal: Emergency Repairs Project



The AquaLastic[®] Concrete Repair System Prolong the Life of and Protect your Infrastructure

Our solution is a complete concrete repair system capable of fixing many different areas and types of degradation problems in concrete, earthen and metal canals, flumes, spillways, flood control channels, dams and other structures.

General Activities (March 8 – April 4)

PROJECTS:

- 2023 Storm Response and Damage Assessment and FEMA Inspections
- LWA Cost of Service Study
- YSGA Annual Report; Permitting Procedures; Project Development; Outreach; Well GSP Grant Management; Groundwater Monitoring Program Improvements; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach
- Outreach with State Agencies on District's Recharge Program
- Water Right Reporting Energy Reporting; and Appropriator Water Rights
- Voluntary Agreement Process
- Maintenance on Canal System and Various Private Jobs
- Excess Flow Diversions for Groundwater Recharge
- Drought Assistance Dry well checks (Contract with Yolo County OES)
- Training and Bug Reporting Phases of Automated Payroll Project and Website Revamping Project
- Project Development for Grant Opportunities (Review of Solicitation Packages)
- Creek Spraying for CCC and Chipper Program for Yolo RCD
- Capital Projects small infrastructure projects and USBR WaterSMART Grant
- Weed Management (MERCSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)
- Shared Services: Cacheville CSD (part-time GM), SCWA, private jobs, spraying, etc.
- Wild Wings CSA and Madison/Knights Landing/Cacheville CSDs Groundwater Assistance and Drought
 Contingency Planning
- Encroachment Permits, Easement Research, Misc, Water Rights Investigations

General Activities (March 8 – April 4)

OUTREACH:

- 1. NCWA Groundwater Management Task Force Meeting (March 13)
- 2. DWR Water Resilience Projects Tour (March 13)
- 3. NCWA Dry Year Task Force Meeting (March 14)
- 4. CII Board Meeting (March 14)
- 5. Meeting with DWR and CDFW VA Process (March 14)
- 6. SWB and CDFW Tour of Capay Dam (March 15)
- 7. EDF and Water Data Consortium Monthly Cross-Pilot Acctg. Platform Meeting (March 16)
- 8. Water Customer Meeting (March 16)
- 9. NCWA Groundwater Recharge Discussion (March 17)
- 10. YSGA BOD Meeting (March 20)
- 11. Brainstorming with USDA SAWS Unit (March 21)
- 12. Farming Practices that Promote Water Conservation Coordination Meeting (March 21)
- 13. Rolling Acres/West Plainfield Flooding Ad Hoc Committee Meeting (March 23)
- 14. Coordination Meeting with SCWA VA Process (April 3)
- 15. FEMA Meetings and Inspections (Numerous)

YSGA UPDATE

YSGA 2023 Q1/Q2 Activities

- Onboarding New Employee: Nathan Fisher
- GSP 2023 Annual Report
- Well Permitting Process
 - Tracking Assembly Bill 1563
- GSP Implementation
 - Management Area Advisory Committees
 - Consideration of Revenue Mechanisms: Meeting with YSGA Ad Hoc Committee to Discuss Proceeding with Fee Study
 - Prioritizing Projects / Preparing Grant Applications
- Drought Task Force Meetings (SB 552: Drought/Water Shortage Planning)
- DWR's GSA Forum (4/19)
- Preparing for Yolo County Water Forum (5/16)
- YSGA Board of Directors Meeting
 - Regular Meeting June 19, 2023
 - Helen Thomson Recognition

FIGURE 2: YOLO SUBBASIN AVERAGE DEPTH TO WATER



https://www.yologroundwater.org/files/5ebfd42ee/Annual+Report+2023+FINAL.pdf





Upcoming Meetings & Events

- 1. YSGA: Meeting with Supervisor Sandy and Concerned Landowners (April 5)
- 2. YSGA / YCFB Coordination Meeting (April 5)
- 3. BEF / Business for Water Stewardship Opportunity (April 6)
- 4. Westside Sacramento Valley Flood MAR TNC (April 6)
- 5. YSGA: Meeting with Supervisor Frerichs (April 6)
- 6. YSGA: Meeting with Supervisor Provenza (April 7)
- 7. NCWA Manager's Meeting (April 10)
- 8. NCWA Bay-Delta Working Group Meeting (April 10)
- 9. YSGA: Executive Committee Meeting (April 10)
- 10. Yolo County BOS Meeting: Drought Update (April 18)
- 11. ACWA SGMA Implementation Committee (April 18)
- 12. DWR's Spring 2023 GSA Summit (April 19)
- 13. California Water Commission Meeting: Recharge Panel (April 19)
- 14. District BOD Meeting: Public Hearing for Updated Agricultural Water Rates (May 2)
- 15. ACWA Spring Conference (May 9-11)
- 16. Yolo County Water Awareness Forum (May 16)
- 17. GRA/ACWA GSA Summit (June 7-8)

Agenda Item #8

General Discussion

Opportunity for Board Members to ask questions for clarification, provide information to staff, request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda. Agenda Item #9

Payment of Bills

Consider the approval and payment of the bills (Checks #62138-62148)

Check	Check	Vendor Name	Check Date				
Number	Amount	Invoice Number	Invoice Date	Description	Invoice	Invoice Amount	
0000062138	\$43,649.00	ACWA / JPIA Employee	Benefits	4/4/23			
		0699035 APR 2023	4/1/23	MONTHLY MEDICAL, VISION, LIFE, EAP		43,649.00	
000006 21 39	\$11,022 .93	ACWA / JPIA - Insurance WC 2023 QTR1	Payments 3/29/23	4/4/23 WORKERS COMP QTR 2023-1		11.022.93	
		WG 2023 QTM	5/25/25	WORKERS COMP QTT 2025 T		11,022.3	
0000062140	\$3,731.31	Bartkiewicz Kronick & S 1650-0001 FEB 2023	hanahan 3/6/23	4/4/23 GENERAL LEGAL		3,731.31	
0000062141	\$2,524.95	Connectronics		4/4/23			
		S4884843.001	3/24/23	PO6690 RADWIN PTP RADIO - HQ TO BERR	YESS	2,524.9	
0000062142	\$4,019.16	Integral Networks, Inc.		4/4/23			
		31445	4/1/23	PO6522 COMPLETE MANAGED SERVICES		4,019.1	
0000062143	\$5,455.15			4/4/23			
		T607932-IN	3/30/23	PO6654 1400GAL GASOLINE		5,455.1	
0000062144	\$3,035.00	MBK Engineers	2102102	4/4/23		0.005.0	
		10359	3/28/23	WATER RIGHT ASSISTANCE		3,035.0	
0000062145	\$3,500.00	Mead & Hunt, Inc. 345372	3/10/23	4/4 PO6734 IVD DSSMR PROJ.R2501900-190301	/23	3.500.00	
		345372	3/10/23	P00734 1VD D33WK PR03.R2501300-130301	.01	3,500.0	
0000062146	\$8,364.32	Pacific Gas & Electric Co 1268051220-4 MAR23	ompany 3/16/23	4/4	/23	8,364.3	
		1200051220-4 MAR23	3/10/23	34274 HWY 16 METER#1009885504 & TRUE	UP	0,304.3	
0000062148	\$6,670.00	Environmental AQUA, In	•	4/4/23			
0000002140	\$5,010.00	80923	3/2/23	POTABLE WATER DELIVERY	reimburseable	6.670.00	

\$ 91,971.82

Agenda Item #10

Closed Session: Bay-Delta

Conference with legal counsel for existing administrative proceeding and anticipated litigation/significant exposure to litigation pursuant to Government Code 54956.9, subsections (d)(1) and (d)(2) – State Water Resources Control Board Bay/Delta Plan update proceeding.

Closed Session Report

Agenda Item #11

Adjourn