YCFC&WCD BOARD OF DIRECTORS

June 6, 2023



Adoption of the May 2, 2023 Regular Board Meeting Minutes

Open Forum

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

Adding Items to the Posted Agenda

Rescheduling the Regular July Board Meeting

January 2023 Storm Events Emergency Canal Repairs





Pleasant's Prairie Canal











Directors' Reports

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

i. ACWA/JPIA Spring Conference (5/8-5/11)

ii. Yolo County Water Awareness Forum (5/16)

iii. YSGA Ad Hoc Committee for Reconsidering Revenue (5/19)

iv. Personnel Committee Meeting (5/30)

v. NCWA Board of Directors and Conservation Task Force Meetings

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 2023 Irrigation Season Update
- YSGA Update
- Upcoming Events

Current Water Conditions (06-06-23)

	Elevation	<u>Available</u>	2022
Clear Lake			
June 6	6.77'	113,038 AF	0.24' (0 AF)
 May 6 	8.00'	150,000 AF	
 Total Difference 	-0.23'	0 AF	
Indian Valley Reservoir			
June 6	1,457.64'	200,600 AF	1,394.04' (50,260 AF)
 May 6 	1,457.19'	199,100 AF	
 Total Gain 	0.45'	1,500 AF	

Total Releases from Cache Creek Dam ~620 cfs

- West Adams Canal ~200 cfs
- Winters Canal ~360 cfs
- Total Diversions at Capay Dam ~560 cfs

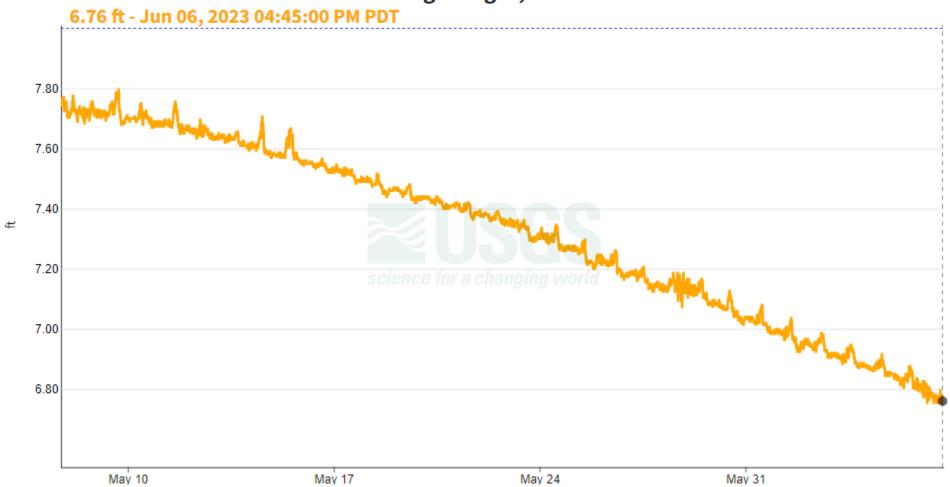
Facility	Precipitation			
	(10/1/22 – 06/06/23)			
Cache Creek Dam	35.74"			
Indian Valley Reservoir	33.39"			
Headquarters	25.21"			



Clear LK a Lakeport CA - 11450000

May 7, 2023 - June 6, 2023

Gage height, ft 1

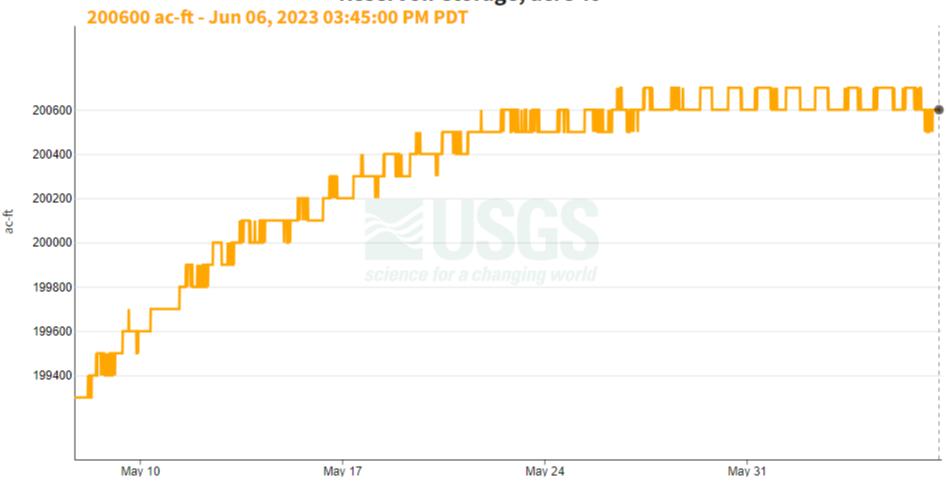




Indian Valley Res a Clearlake Oaks CA - 11451290

May 7, 2023 - June 6, 2023

Reservoir storage, acre-ft

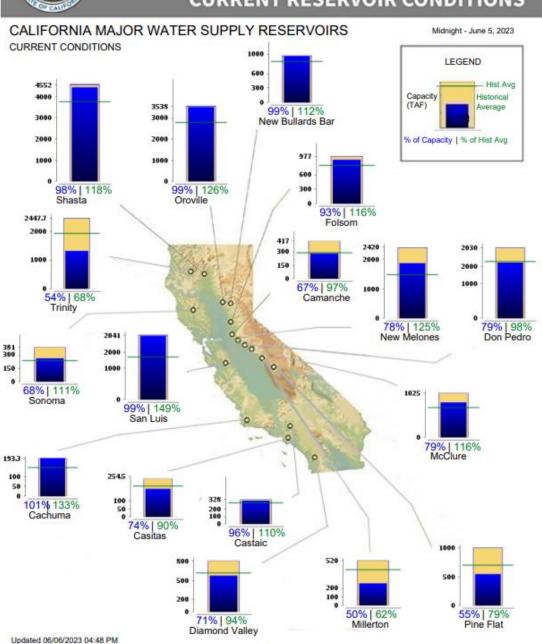


Northern Sierra Precipitation: 8-Station Index, June 06, 2023 100 Percent of Average for this Date: 122% 2016-2017 Daily Precip (wettest) 1 month $\Delta \sim 2.1$ " -Mount Shasta City -Shasta Dam -Mineral 95 94.7 Quincy 90 88.5 **Brush Creek** 1982-1983 Daily Precip (2nd wettest) Sierraville RS 85 Blue Canyon Pacific House 80 (inches) 75 70.7 2018 - 2019 Daily Precip 70 Current: 63.1 Cumulative Daily/Monthly Precipitation 65 Precipitation 60 55 53.2 Average (1991-2020) 50 45 2021 - 2022 Daily Precip 43.0 40 35 2019 - 2020 Daily Precip 31.7 30 25 2020-2021 Daily Precip (3rd driest) 24.0 20 19.0 1923-1924 (driest) 17.1 15 976-1977 (2nd driest) 10 0 Oct 1 Nov 1 Dec 1 Jan 1 Feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1

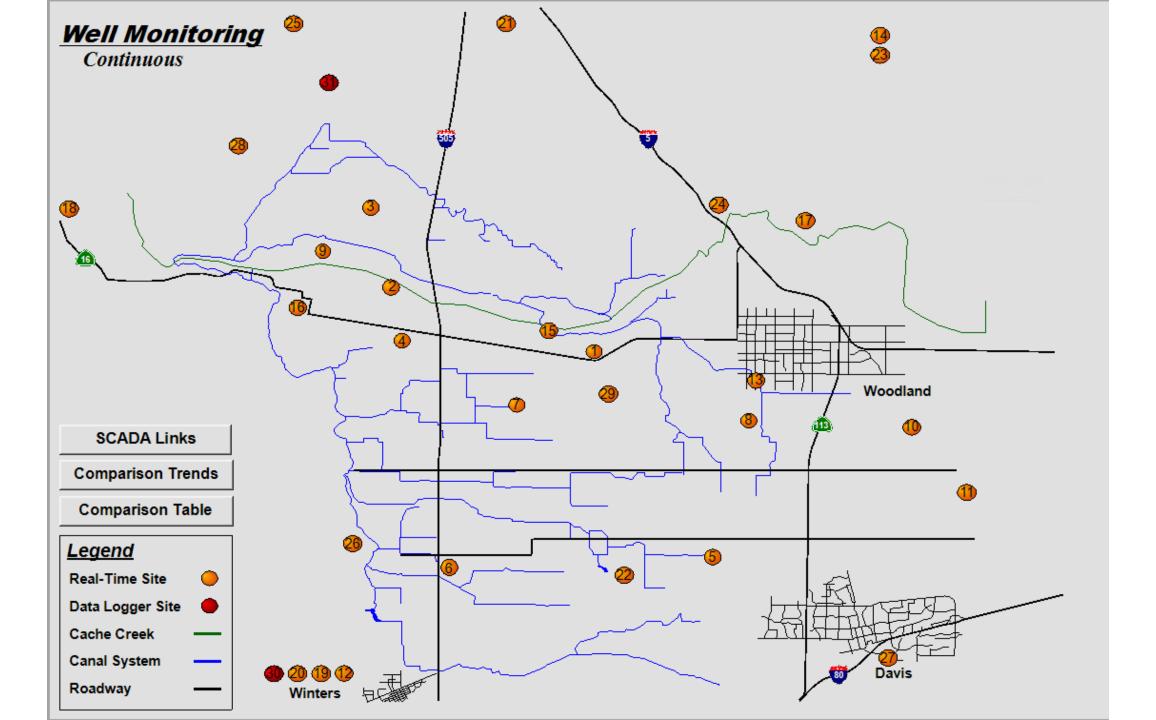
Water Vear (October 1 - Sentember 30)

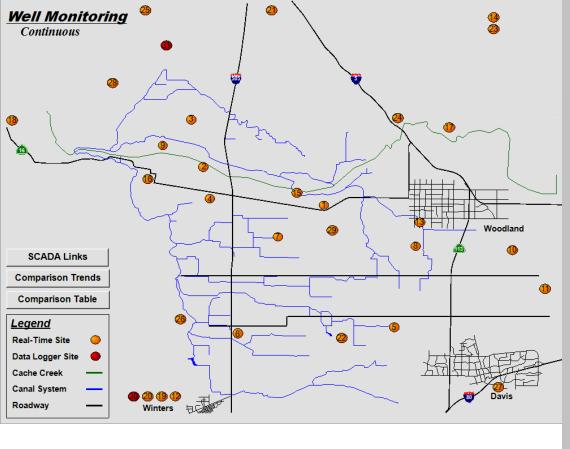


CURRENT RESERVOIR CONDITIONS



Watershed View Clear Lake Indian Valley Reservoir 6.77 ft <u>Legend</u> 11 cfs Releasing NF of CC **SCADA Site** 1,457.64 ft Res. Level **USGS Gage** 200,600 acft Storage SCADA Control Site **SCADA Links Bear Creek Kelsey Creek** 17 cfs Rumsey Bridge Cache Creek Dam 508 cfs 633.1 cfs Releasing 2 fnu 6.46 ft Pond Level 115,406 acft Storage Yoche Dehe Yolo 5.6 cfs 3.82 ft 0 cfs 4 fnu Salisbury Spill **Capay Dam** Settling **Basin** 5.30 ft Pond Level Winters 361 cfs 0 cfs West Adams 199 cfs Woodland





Well Monitoring

SCADA Links

Well Map

Select Date

06/04

<u>Δ 2015</u> - 2023

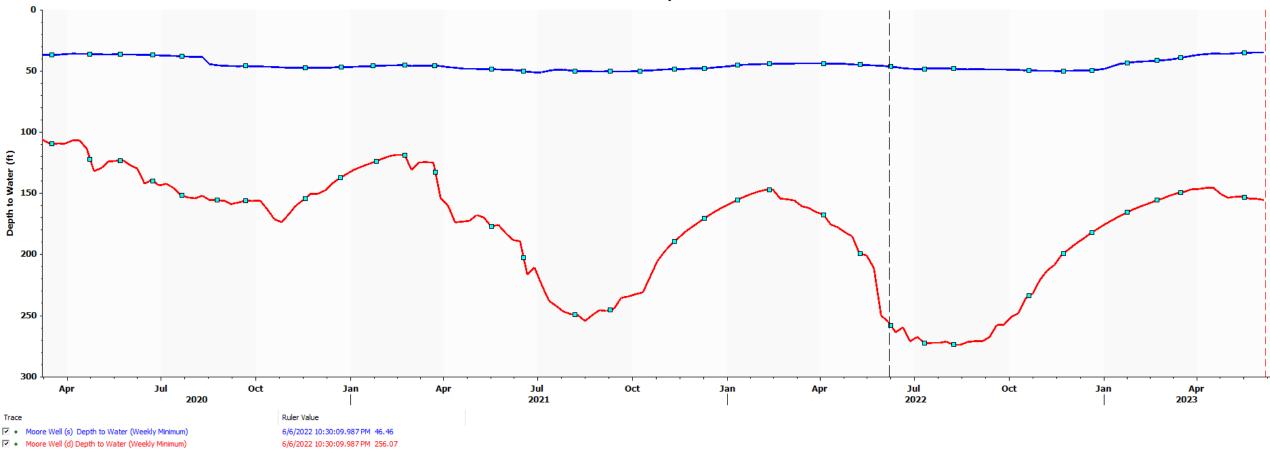
> 6.2 10.9 14.2 22.1 5.0 20.1 17.7 21.5

15.0

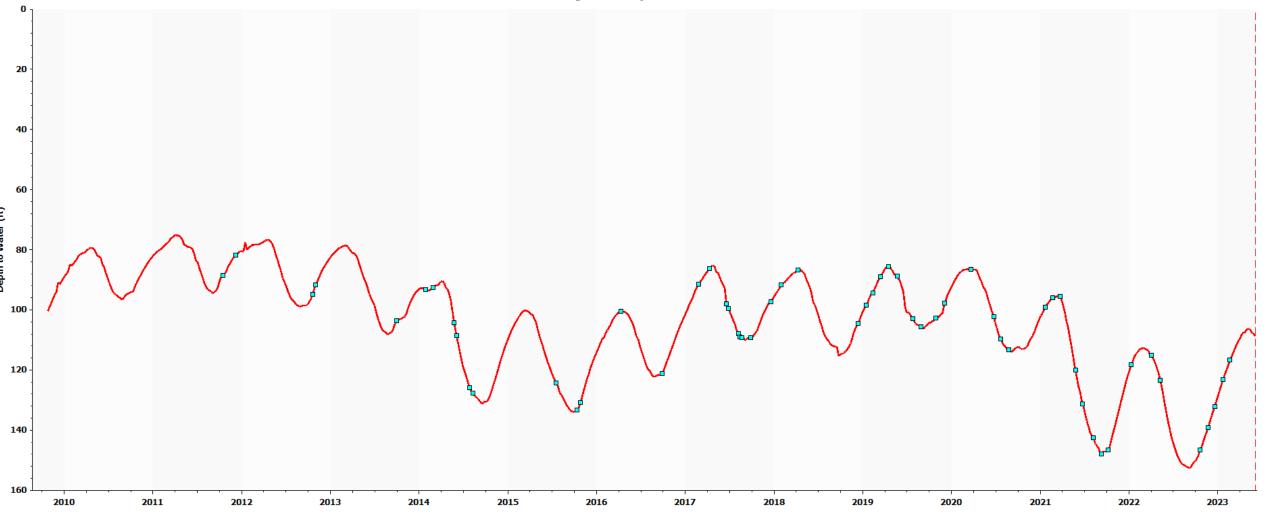
53.1

Depth to Water Historical Comparison (Daily Average DTW in feet)											Δ2				
<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>	- 2
1.	84.3	79.8	85.6	94.2	109.1	114.9	106.2	91.5	94.9	91.2	97.4	125.2	134.9	108.7	2
2.	42.3	34.6	47.8	43.7	60.9	45.5	42.5	26.8	32.5	26.3	31.4	37.4	45.4	34.6	1
3.		38.6	41.4	45.3	67.6	69.4	57.9	36.6	41.7	35.7	41.7	56.2	76.6	55.2	2
4.		26.4	36.1	41.0	52.5	59.1	47.3	37.7	32.6	24.7	32.3	47.6	65.3	37.1	2
5.		14.9	18.4	17.4	32.9	32.6	36.8	20.0	28.2	14.4	21.0	28.4	39.9	27.7	1
6.			60.2	56.0	84.6	76.4	72.1	40.7	45.5	30.1	44.7	63.5	79.8	56.3	2
7.				27.3	27.3	40.7	28.3	14.8	17.4	14.8	19.7	41.3	41.2	23.0	1
8.					85.9	85.6	84.1	62.0	63.0	43.0	63.9	83.5	91.5	64.1	2
9.					61.6	63.5	54.6	37.5	42.6	36.9	42.7	53.4	66.4	48.5	1
10.						120.0	69.0	52.7	44.7	23.8	54.1	74.7	121.3	66.9	5
11.						28.1	20.6	14.7	15.9	10.5	20.2	24.7	29.3	18.4	1
12.										107.2	115.6	135.5	147.8	138.5	9
13.									91.3	63.5	103.0	126.9	159.4	85.9	7
14.										7.7	9.8	11.8	11.2	8.7	2
15s.										33.1	36.6	49.2	46.4	34.9	1
15d.										109.9	127.8	199.6	261.9	156.2	10
16.										33.0	41.6	44.5	53.4	44.1	9
17.										18.1	22.3	30.7	34.0		
18.										44.1	48.1	83.2	59.7	36.9	2
19.											170.2	185.1	195.6	190.6	ŧ
20.											Wo	rking	on a	replac	em
21.											121.5	133.2	140.7	130.7	1
22.												96.9	109.5	73.5	3
23.													86.5	52.9	3
24.													80.8	59.9	2
25.														103.2	
26.														93.3	
27.														60.4	
28.														139.0	
29.														84.4	

15. Moore Well Depth to Water



1. HQ Well Depth to Water



Depth to Water

05/05/22: 122.4 feet 06/05/22: 135 feet

 Δ -12.6 feet

Depth to Water

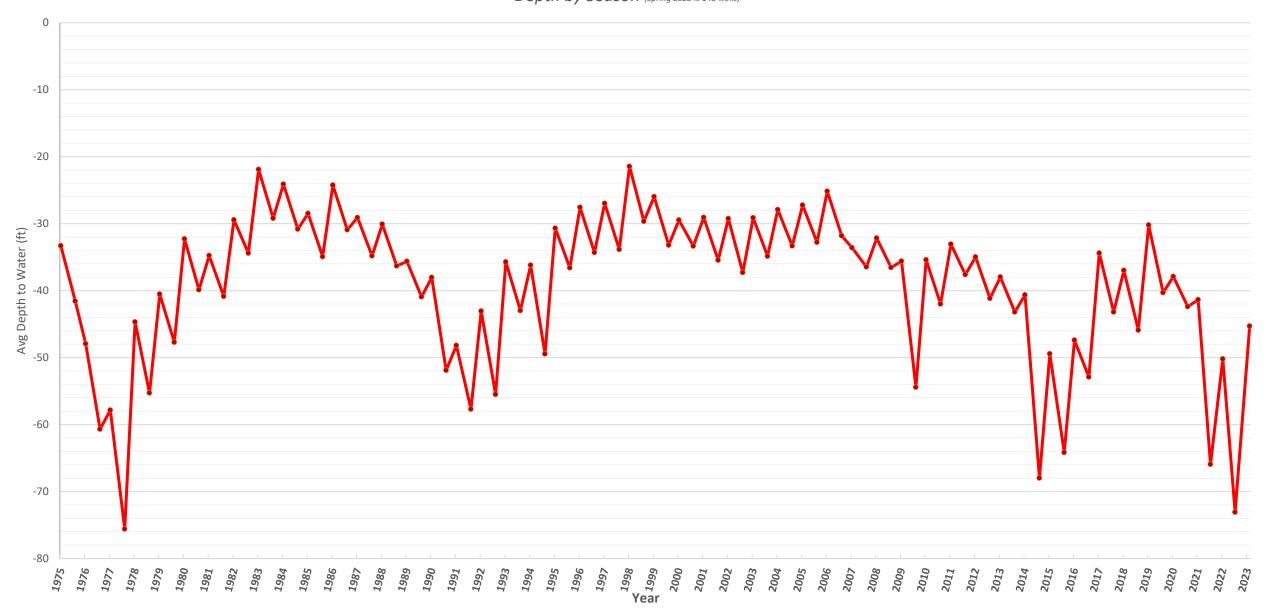
05/05/23: 107.7 feet

06/05/23: 109.2 feet

 Δ -1.5 feet

Draft YCFCWCD Average Groundwater

Depth by Season (Spring 2023 is 148 wells)**



YCFCWCD Average Groundwater

Fall to Spring Recovery

 Depth by Season (Spring 2023 is 148 wells)**



Year

-80

Preliminary Financial Report

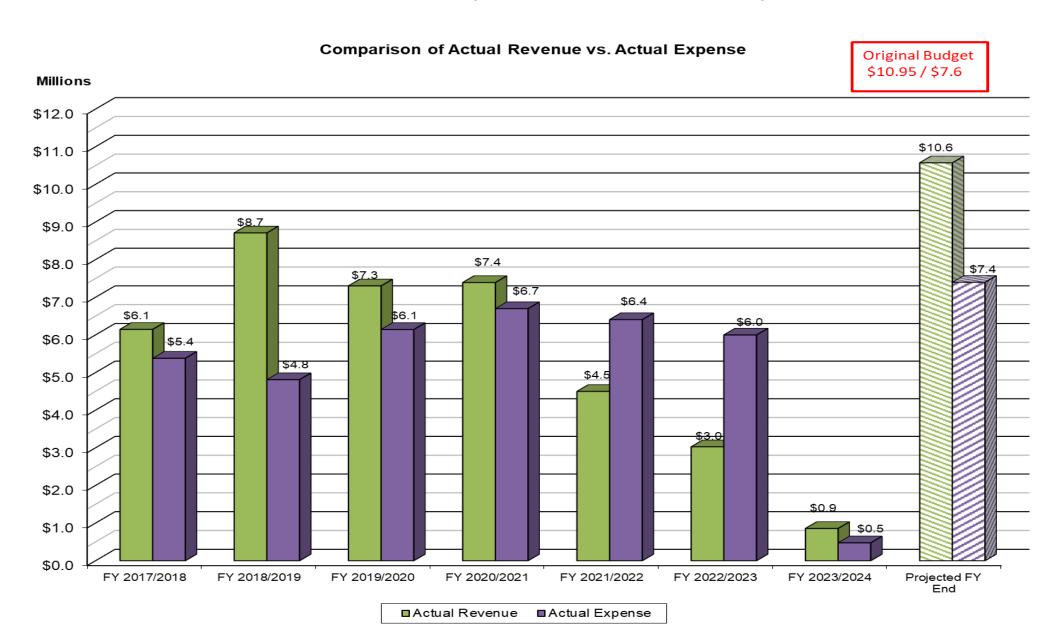
Highlights as of May 31, 2023

Preliminary Budget Summary as of 5/31/2023

Key Revenue Drivers	Year-to-Date	Budget	Difference
Agricultural Water Sales	\$827,200	\$6,217,700	(\$5,390,500)
Non-Agricultural (M&I) Water Sales	\$5,100	\$343,300	(\$338,200)
Property Taxes *includes Special Property Tax Assessment	\$15,900	\$2,586,400	(\$2,570,500)
IV Dam Hydro (less fees)	\$0	\$350,000	(\$350,000)
Other Revenue	\$8,900	\$1,456,700	(\$1,447,800)
Shared Services Revenue	\$1,800	\$315,200	(\$313,400)
YSGA Reimbursements	\$0	\$250,000	(\$250,000)
Interest	\$7,100	\$120,000	(\$112,900)
Other (includes FEMA)	\$0	\$771,500	(\$771,500)
TOTAL REVENUE	\$857,100	\$10,954,100	(\$10,097,000)

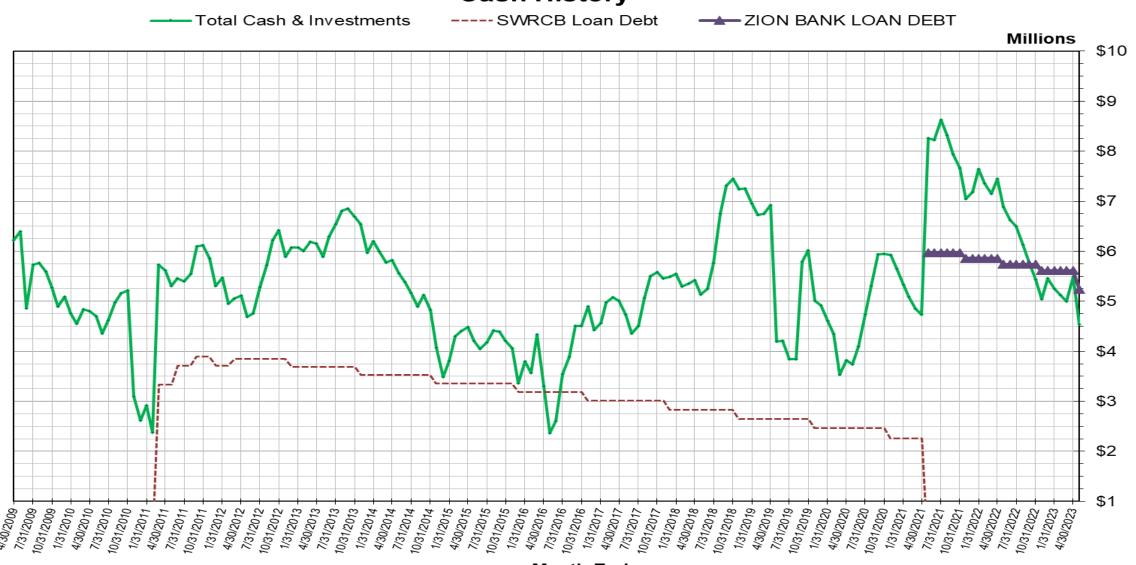
Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$113,400	\$1,343,100	(\$1,229,700)
General Administration	\$136,400	\$2,846,900	(\$2,710,500)
Other Expenses	\$225,700	\$3,451,900	(\$3,226,200)
TOTAL EXPENSES	\$475,500	\$7,641,900	(\$7,166,400)

Preliminary Financial Report



Preliminary Financial Report

Cash History



Month End

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

Capital Improvement Program

Planning for Capital Jobs

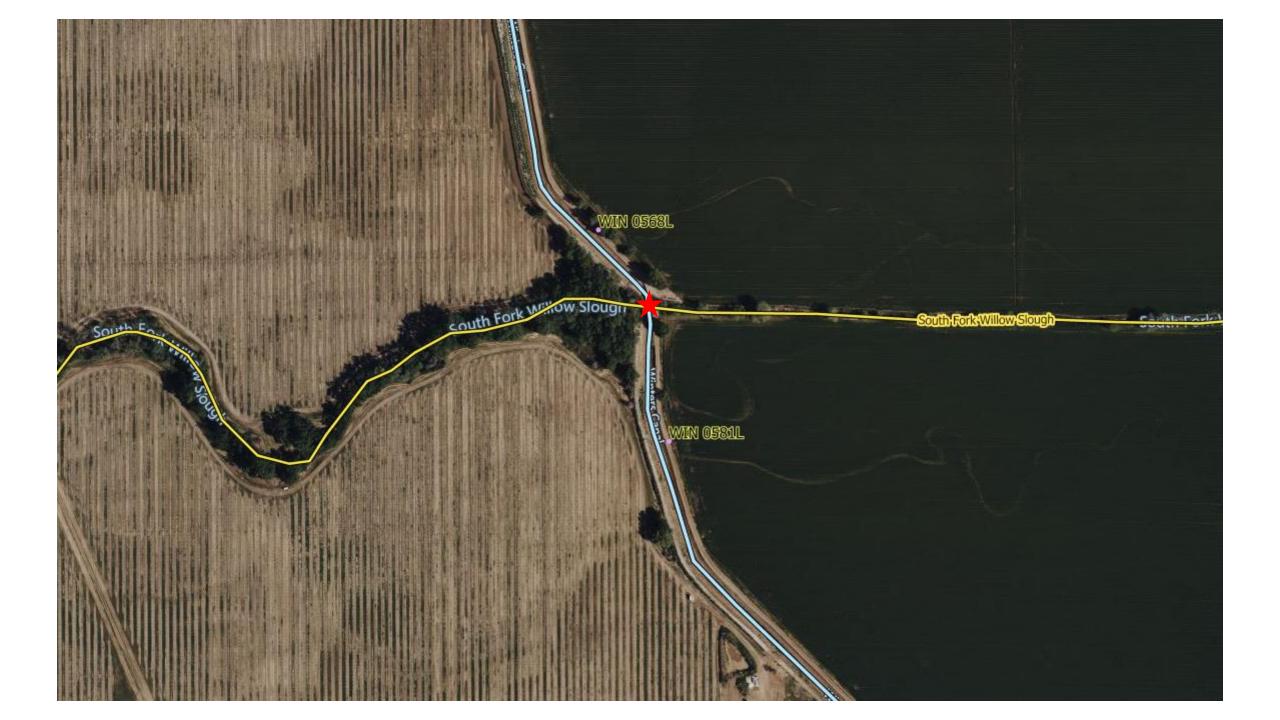
Capay Dam Bladder Replacement Project

FY 22/23 Planning Activities Related to Large Capital Jobs

Almondale Flume: Emergency Repairs Project

<u>Hungry Hollow Canal – Pipeline Extension Project</u>







Almondale Flume on Winters Canal: Emergency Repairs Project



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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.



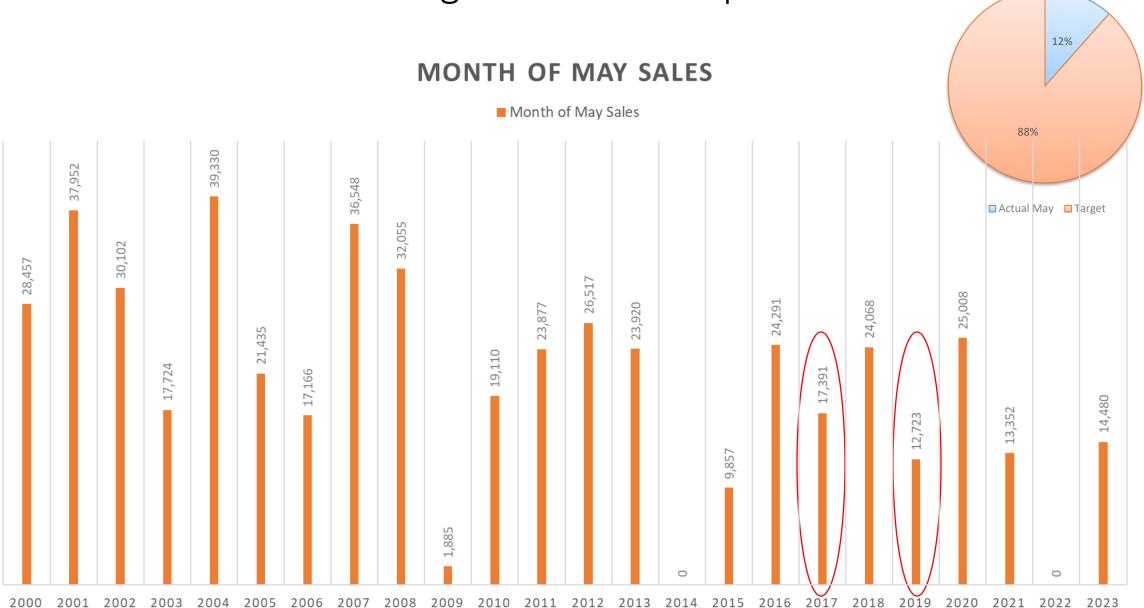


2023 Irrigation Season Update

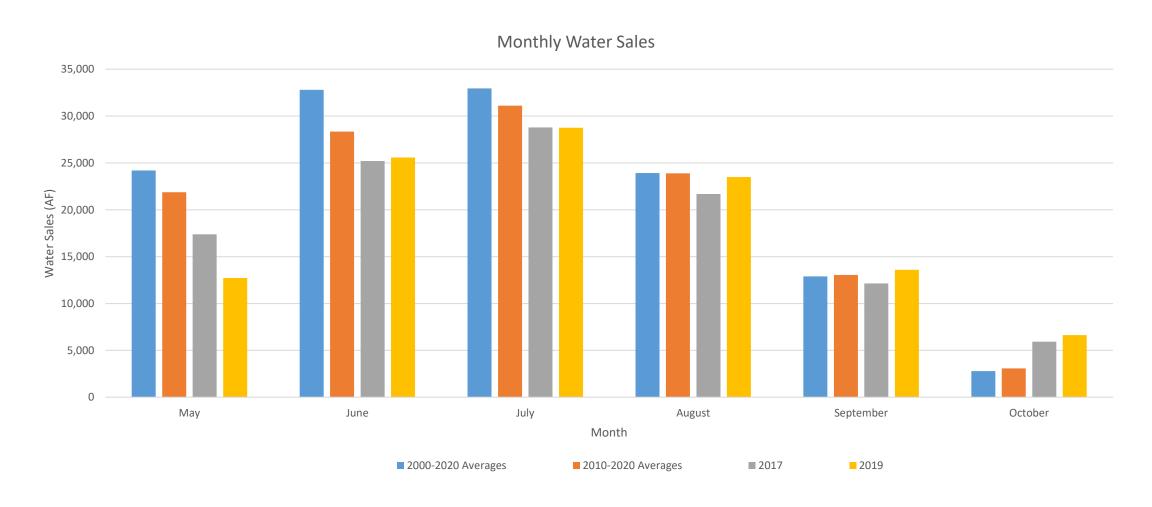
- "Start of Season" May 5
 - Delay in demand because of April and May(!) rains
- Flow Measurement QA/QC
 - Cache Creek Dam USGS rating curve update
 - Managing Capay Dam "spill"
 - Various points in the canal system
- "Bottlenecks"/Points of Constriction
 - Cottonwood, Cottonwood South, Ulrich Canals
- Aquatic Weeds

2023 Irrigation Season Update

2023 Water Sales Target



Monthly Average of Water Sales: Similar Water Year Type



Aquatic Weeds

















Background

- Similar issue in 2016 after the 2014/2015 drought
- In 2016, sago pondweed and algae were an issue
- FY 23/24: \$80,000 budgeted for aquatic weeds (anticipate > \$80k)

Problem Weeds

- Sago pondweed present in system for a long time, and currently a minor issue
- Horned pondweed similar to sago but annual life cycle (have not found this yet)
- Green algae (Cladophora spp.) present in system historically, and currently an issue
- Upright burhead more problematic in previous years (have not found this yet)







Green algae

- Different types
- Cladophora spp. the most problematic for District
- Common in warm, eutrophic systems
- Historically only a minor problem, this year is considered worse
- Recorded in ~20% of system in 2015
- Most problematic towards the ends of canals
 - Currently an issue at the "headwaters"





Why?

Potential Causes:

- Irrigation releases currently only from Clear Lake (warmer water)?
- Cache Creek serving as a breeding ground to the algae due to lower flows in the drought?
- Reduced flows due to conversion to drip systems and permanent crops?
- Change in nutrient cycling with new crops favoring aquatic weed growth?
- A perfect storm of all of these factors and/or others yet unknown?

Conclusion



- Increase in expenses and hassles for both the District and water customers
- Encourages customers to use groundwater
- Increase in NPDES costs
- Highlights the need for a District understanding of aquatic weed growth and control methods
- Need for improved weed control over time

General Activities (May 3-June 6)

PROJECTS:

- 2023 Storm Damage Repairs (Contractor and Force Acct.) and FEMA Reimbursement Process
- 2023 Irrigation Season Kick-Off
- Staff Annual Performance Evaluations
- YSGA Well Permitting Review; Project Development; Outreach; GSP Implementation; Groundwater Monitoring Program Improvements; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach
- Water Right Reporting Violations; and Appropriator Water Rights
- Preparing for Drought Update to County BOS
- Voluntary Agreement Process
- Outreach with various agencies on District's Recharge Program
- Planning for Yolo County Water Awareness Forum
- Capital Projects small infrastructure projects and USBR WaterSMART Grant
- Various Private Jobs
- Drought Assistance Dry well checks (Contract with Yolo County OES)
- Creek Spraying for CCC and Chipper Program for Yolo RCD
- Vegetation Management (MERCSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)
- Shared Services: Cacheville CSD (part-time GM), SCWA, private jobs, spraying, etc.
- Encroachment Permits, Easement Research, Misc. Water Rights Investigations

General Activities (May 3-June 6)

OUTREACH:

- Planning for and Participating in Yolo County Water Awareness
 Forum (May 5, 8, and 16)
- 2. YCFB // YSGA Monthly Coordination Meeting (May 5)
- 3. YSGA: Coordination Meeting with Solano Subbasin (May 8)
- 4. ACWA Spring Conference and Committee Meetings (May 9-11)
- 5. YSGA: Meeting with CAFF (May 15)
- 6. Rolling Acres Ad Hoc Internal Coordination Meeting (May 15)
- 7. Cache Creek Dam Tour with City of Clearlake (May 17)
- 8. UCD Groundwater Shortcourse (May 18)
- 9. CII Board of Directors Meeting (May 18)
- YSGA: Ad Hoc Committee for Reconsideration of Expense Allocation (May 19)
- 11. Cache Creek TAC Meeting (May 22)
- 12. FERC Part12D Kick-off Meeting (May 24)
- 13. Yolo County Water Awareness Forum Post-Mortem (May 24)
- 14. YSGA: Executive Committee Meeting (May 30)

- 15. Meeting with Highlands MWC Regarding SB 88 Reporting (May 30)
- Yolo County Drought Planning Assistance Meeting with DWR
 (May 31)
- 17. NCWA Managers Dinner, Sac River Basin (May 31)
- 18. YSGA: Coordination with Yolo County EH on Well Permitting(June 1)
- ACWA Board of Directors and State Legislative Committee
 Meetings (June 2)

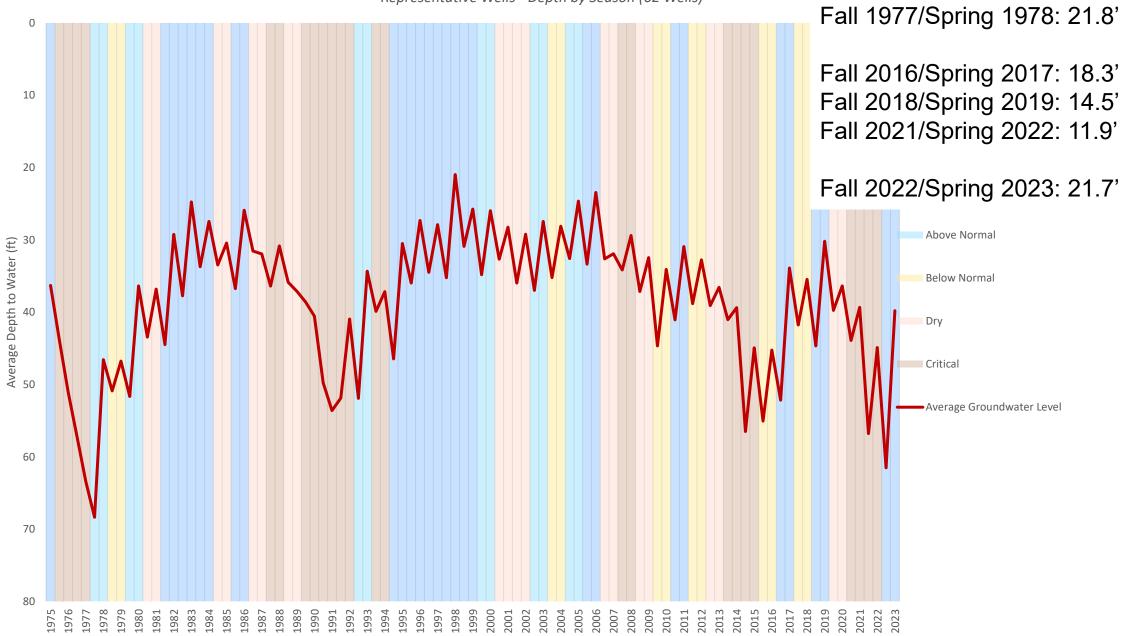
YSGA Update

YSGA 2023 Q2/Q3 Activities

- Onboarding New Employee: Nathan Fisher
- Working with DWR to Construct 3 New Multi-Completion Wells
- Well Permitting Process
 - <u>Tracking Assembly Bill 1563</u> passed Assembly in May
- GSP Implementation
 - Management Area Advisory Committees
 - Proceeding with Fee Study
 - Prioritizing Projects / Preparing Grant Applications
 - Grant Award Draft Announcement of \$7.917M (5/8 projects funded)
- Drought Task Force Meetings (SB 552: Drought/Water Shortage Planning)
- Preparing for Yolo County Board of Supervisors Drought Update scheduled for June 27, 2023
- YSGA Board of Directors Meeting
 - Regular Meeting June 19, 2023
 - Regular Meeting September 18, 2023
 - Helen Thomson Recognition



Representative Wells - Depth by Season (62 Wells)



Fall to Spring Recovery

Fall 2018/Spring 2019: 14.5'

Upcoming Meetings & Events

- GRA/ACWA GSA Summit (June 7-8)
- 2. NCWA's Groundwater Management Task Force Meeting (June 12)
- 3. Update on DWR FMO Cache Creek Capacity Restoration Activities (June 14)
- 4. Yolo County Financial Oversight Committee Meeting (June 15)
- 5. YSGA: Board of Directors Meeting (June 19)
- 6. ACWA SGMA Implementation Committee Meeting (June 20)
- 7. Yolo County's Cache Creek Walk (June 21-23)
- 8. Supervisor Frerichs and Barajas: Agricultural Forum / Roundtable (June 22)
- Reinvigorating the Cache Creek Watershed (June 22)
- 10. Drought/Groundwater Update to Board of Supervisors (June 27)
- 11. YCFB/County Check-in (June 29)
- 12. City of Woodland Chamber Lunch & Learn (July 5)
- 13. YSGA Executive Committee Meeting (July 14)
- 14. CII Board of Directors Meeting (July 21)
- 15. ACWA Board of Directors Meetings (July 27-28)

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.

Consider Approval of Larsen Wurzel & Associates Contract Exceedance

Payment of Bills

Consider the approval and payment of the bills (Checks #62358-62374)

Check Number	Check Amount	Vendor Name		Check Date				
Number		Invoice Number	Invoice Date	Description		Invoice	e Amount	
0000062358	\$43,694.19	ACWA / JPIA Employee Benefits			6/6/23			
		0699576 JUN 2023	6/1/23	MONTHLY MEDICAL INSURAN	ICE		43,694.19	
0000062359	\$8,494.55	Bartkiewicz Kronick & Shanahan			6/6/23			
		1650-0001 APR 2023	4/30/23	GENERAL LEGAL			4,339.67	
		1650-001 APR 2023	4/30/23	CLEAR LAKE LEGAL			1,323.75	
		1650-0010 MAY 2023	6/5/23	CLEAR LAKE LEGAL			2,647.50	
		1650-0020 APR 2023	4/30/23	DELTA ISSUES LEGAL			99.88	
		1650-0020 MAY 2023	6/5/23	DELTA ISSUES			83.75	
0000062360	\$5,049.38	Briggs Manufacturing			6/6/23			
		20221352	5/17/23	PO6774 TWIN TRACK WEIR, C	10 INSERTS,B&G	50% Reimburseable	5,049.38	
0000062361	\$6,090.00	DENVIRONMENTAL AQUA, Inc.			6/6/23			
		81293	5/2/23	POTABLE WATER DELIVERY		Reimburseable	6,090.00	
0000062362	\$106,470.00	CA Dept of Water Resources			6/6/23			
		1800157124	5/19/23	ANNUAL DAM FEES FY 23-24			106,470.00	
0000062363	\$139,000.00	Diamond D General Eng Inc.			6/6/23			
		202314-1	4/28/23	EMERGENCY CANAL REPAIRS	S APRIL 2023	Reimburseable	139,000.00	
0000062364	\$11,372.20	Integral Networks, Inc.			6/6/23			
		31492	5/1/23	PO6522 COMPLETE MANAGED	D SERVICES		4,013.90	
		31506	5/10/23	PO6697 CONFIGURE COMM. N	NEW SERVER HOS	T	3,330.00	
		31569	6/1/23	PO6522 AGREEMENT INTEGR	AL COMPLETE MA	NAG	4,028.30	
0000062365	\$12,169.22	Interstate Oil Company			6/6/23			
		T608915-IN	5/24/23	1850GAL GAS, 1010GAL DIESE	EL		12,169.22	
0000062366	\$37,675.08	Larsen Wurzel & Associates, Inc.			6/6/23			
		2115200-0223	3/31/23	2/1 - 2/28/23 TASKS 2.1, 2.2, 2.3	3		20,966.71	
		2115200-0323	4/26/23	3/1 - 3/31/23 TASKS 2.1, 2.2, 2.3	3		16,708.37	

0000062367	\$18,506.00	MBK Engineers		6/6/23	6/6/23		
		10359	3/28/23	WATER RIGHT ASSISTANCE	-1,301.25		
		10734	4/26/23	DISTRICT GENERAL SERVICES	516.00		
		10735	4/26/23	WATER RIGHT ASSISTANCE	9,167.50		
		11042	5/18/23	DISTRICT GENERAL SERVICES	258.00		
		11173	5/24/23	WATER RIGHT ASSISTANCE THRU 04/30/2023	9,865.75		
0000062368	\$50,750.00	Pacific Coatings		6/6/23			
		1008QB	5/25/23	PO4481 MOBILIZATION TO CONCRETE IN FLUME	50,750.00		
0000062369	\$18,737.21	Pioneer Machinery, Inc.		6/6/23			
		1-516913-2	5/23/23	PO6776 SYSTEM WIDE REPAIRS	5,207.21		
		1-516926	4/30/23	PO6767 EXCAVATOR CAT RENTAL 4/10-4/28/23	13,530.00		
0000062370	\$21,216.32	Quam General Engineering		6/6/23			
		1260	5/4/23	PO6772 CULVERT IMPROVEMENTS CR29	21,216.32		
0000062371	\$5,250.00	Rubicon Systems America, Inc.		6/6/23			
		102980	5/26/23	PO6801 7 EA GATE COMMISSIONING	5,250.00		
0000062372	\$9,347.96	TechnoFlo System		6/6/23			
0000002372	40,047.00	40121	5/9/23	PO6697 (2)8" SEAMETRICS AG3000 FLOWMETER	5,323.16		
		40245	5/16/23	PO6700 PULSAR LITE LEVEL SENSOR,2WIRE	2,003.40		
		40500	5/31/23	PO6802 PULSAR IMP LITE LEVEL SENSOR	2.021.40		
0000062373	\$17,808.75	U.S. Geological Survey		6/6/23			
		91062102	4/12/23	JOINT FUNDING AGREEMENT ENDING 03/31/23	17,808.75		
0000062374	\$112,074.06	Woodland Ford (Inc.)		6/6/23			
		20230531 6609	5/31/23	PO6742 2023 FORD F150 4X4 SUPERCAB	56,037.03		
		20230531 6636	5/31/23	PO6742 NEW 2023 F150 4X4 SUPERCAB	56,037.03		
	\$ 623,704.9	2			\$ 623,704.92		

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

Closed Session: Public Employee Performance Evaluation

Government Code 54954.5(e) and 54957 Title: General Manager

Closed Session Report

Closed Session: Labor Negotiations

Government Code 54957.6

District Representative(s): Directors Mary Kimball and Jim Mayer
Unrepresented Employee: General Manager

Closed Session Report

Consider Merit Increase to General Manager Salary

Agenda Item #16 Adjourn