

Amador Regional Sanitation Authority

Amador Regional Sanitation Authority Meeting Agenda

Thursday, January 16, 2025 at 2:30 PM

33 Church Street, Sutter Creek, CA 95685

The Agenda can be found on the City's Website: www.cityofsuttercreek.org

1. Call to Order and Establish a Quorum for Regular Meeting

2. Pledge of Allegiance to the Flag

3. Public Forum

Discussion items only, no action to be taken. Any person may address the Board at this time upon any subject within the jurisdiction of the Amador Regional Sanitation Authority; however, any matter that requires action may be referred to staff and/or Committee for a report and recommendation for possible action at a subsequent Board meeting. Please note – there is a five (5) minute limit per topic.

4. Consent Agenda

A. [Budget v Actual January 2025](#)

B. [Warrant List January 2025](#)

C. [Balance Sheet January 2025](#)

D. [Reservoir report - for information only](#)

5. General Manager's Report - informational

A. Welcome new members to ARSA Board and Update on ARSA Status

6. Administrative Agenda

A. [Water Balance Responses to Water Board](#)

[Information presentation with consultant Hydrosiences, on ARSA, Ione and CDCR responses to Water Board Order](#)

7. Adjournment

Amador Regional Sanitation Authority (ARSA)

Budget vs. Actual

July 2024 through January 2025

Section 4, Item A.

	Jul '24 - Jan 25	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
Interest Income	80.29	150.00	-69.71	53.53%
Reimbursed Expenses	0.00	27,800.00	-27,800.00	0.0%
Use Fee Revenue				
Amador City	11,215.50	22,431.00	-11,215.50	50.0%
Amador Water Agency	60,429.00	120,858.00	-60,429.00	50.0%
City of Sutter Creek	160,249.25	640,997.00	-480,747.75	25.0%
Total Use Fee Revenue	231,893.75	784,286.00	-552,392.25	29.57%
Total Income	231,974.04	812,236.00	-580,261.96	28.56%
Expense				
Employee Services				
Contract with COSC	95,812.98	223,000.00	-127,187.02	42.97%
Overtime	12,784.33	20,000.00	-7,215.67	63.92%
Total Employee Services	108,597.31	243,000.00	-134,402.69	44.69%
Operations				
Audit & Accounting	0.00	6,000.00	-6,000.00	0.0%
Contingency	0.00	65,000.00	-65,000.00	0.0%
Engineering				
Inundation mapping	0.00	7,000.00	-7,000.00	0.0%
Engineering - Other	15,191.13	40,000.00	-24,808.87	37.98%
Total Engineering	15,191.13	47,000.00	-31,808.87	32.32%
Flood Control	0.00	1,000.00	-1,000.00	0.0%
Fuel	3,633.59	19,000.00	-15,366.41	19.12%
General Supplies	0.00	600.00	-600.00	0.0%
Legal	3,335.23	60,000.00	-56,664.77	5.56%
Membership Dues	0.00	3,000.00	-3,000.00	0.0%
O&M Building/Structures	0.00	1,500.00	-1,500.00	0.0%
O&M Equipment	0.00	35,000.00	-35,000.00	0.0%
Professional Services	21,239.05			
Repairs & Maintenance	32,717.21	15,000.00	17,717.21	218.12%
Small Equipment	11.05			
Taxes/Fees/Licenses	33,048.44	73,500.00	-40,451.56	44.96%
Tertiary Treatment Fees	107,622.66	136,500.00	-28,877.34	78.84%
Vehicle Maintenance	1,988.79	5,000.00	-3,011.21	39.78%
Total Operations	218,787.15	468,100.00	-249,312.85	46.74%
Total Expense	327,384.46	711,100.00	-383,715.54	46.04%
Capital	0.00	450,000.00	-450,000.00	0.0%
Total Other Expense	0.00	450,000.00	-450,000.00	0.0%

Amador Regional Sanitation Authority (ARSA)

Warrant List

January 2025

Section 4, Item B.

	Type	Num	Date	Name	Account	Paid Amount
	Bill Pmt -Check	1107	01/13/2025	Best Best & Krieger, LLP	10001 · Checking - Bank of Marin	
	Bill	1017313	01/10/2025		Legal	-368.16
TOTAL						-368.16
	Bill Pmt -Check	1108	01/13/2025	City of Sutter Creek	10001 · Checking - Bank of Marin	
	Bill	2025-01	01/13/2025		Contract with COSC	-10,427.79
					Overtime	-1,025.38
					Repairs & Maintenance	-336.62
TOTAL						-11,789.79
	Bill Pmt -Check	1109	01/13/2025	Hunt & Sons, Inc.	10001 · Checking - Bank of Marin	
	Bill	329038	12/15/2024		Fuel	-255.02
	Bill	336795	12/31/2024		Fuel	-193.11
TOTAL						-448.13
	Bill Pmt -Check	1110	01/13/2025	HydroScience Engineers, Inc.	10001 · Checking - Bank of Marin	
	Bill	371003005	01/01/2025		Professional Services	-1,778.25
TOTAL						-1,778.25
	Bill Pmt -Check	1111	01/13/2025	Weber, Ghio & Associates, Inc.	10001 · Checking - Bank of Marin	
	Bill	14240	12/06/2024		Engineering	-1,270.10
	Bill	14241	12/06/2024		Engineering	-281.25
TOTAL						-1,551.35

Amador Regional Sanitation Authority (ARSA)

Balance Sheet

As of January 13, 2025

Section 4, Item C.

Jan 13, 25

ASSETS

Current Assets

Checking/Savings

10001 · Checking - Bank of Marin 219,577.43

10011 · Savings - Bank of Marin 349,133.65

Total Checking/Savings 568,711.08

Accounts Receivable

11000 · Accounts Receivable 552,392.25

Total Accounts Receivable 552,392.25

Total Current Assets 1,121,103.33

Fixed Assets

150620 · Long Term Assets Structures 1,884,800.13

150621 · Long Term Assets Structures Dep -1,884,800.15

150630 · Long Term Assets Equipment 151.00

150631 · Long Term Assets Equipment Depr -151.00

35000 · Investment in Capital Assets 841,648.00

Total Fixed Assets 841,647.98

TOTAL ASSETS 1,962,751.31

LIABILITIES & EQUITY

Equity

30000 · Opening Balance Equity 2,031,569.74

32000 · Retained Earnings -628,931.43

Net Income 560,113.00

Total Equity 1,962,751.31

TOTAL LIABILITIES & EQUITY 1,962,751.31

ARSA RESERVOIRS and IRRIGATION												
Dec-24	Sutter Creek Effluent Flow (gals) ¹	Bowers Irrigation (gals)	Henderson Reservoir Freeboard (ft)	Henderson Reservoir Volume (ac/ft)	Hoskins Irrigation (gals)	Preston Forebay (FT)	Preston Forebay Volume (ac/ft)	Flow Into Preston Reservoir (GPM)	Temp Preston Irrigation (Est/gals)	Preston Reservoir (FT)	Preston Reservoir Volume (ac ft)	Flow from Preston To Ione WWTF (ON/OFF)
12/1/2024												
12/2/2024	793,719	0	21'3"	33.0	0	12'6"	17.5	100	0	18'8"	30.1	OFF
12/3/2024	449,237	0	21'3"	33.0	0	12'8"	17.3	100	0	18'8"	30.1	OFF
12/4/2024	560,313	0	21'2"	33.7	0	12'6"	17.5	100	0	18'7"	30.6	OFF
12/5/2024	350,912	0	21'2"	33.7	0	12'6"	17.5	100	0	18'7"	30.6	OFF
12/6/2024		0	21'2"	33.7	0	12'6"	17.5	100	0	18'7"	30.6	OFF
12/7/2024												
12/8/2024												
12/9/2024	383,250	0	21'0"	35.2	0	12'8"	17.3	100	0	18'7"	30.6	OFF
12/10/2024	329,015	0	20'11"	35.9	0	12'8"	17.3	100	0	18'7"	30.6	OFF
12/11/2024	364,729	0	20'11"	35.9	0	12'8"	17.3	100	0	18'7"	30.6	OFF
12/12/2024	1,165,875	0	20'10"	36.7	0	12'8"	17.3	100	0	18'7"	30.6	OFF
12/13/2024	930,906	0	20'9"	37.5	0	12'8"	17.3	100	0	18'6"	31.2	OFF
12/14/2024		0	20'6"	39.8	0	12'6"	17.5	100	0	18'5"	31.7	OFF
12/15/2024												
12/16/2024	995,622	0	20'3"	42.2	0	12'4"	17.7	100	0	18'4"	32.2	OFF
12/17/2024	647,390	0	20'0"	44.6	0	12'4"	17.7	100	0	18'4"	32.2	OFF
12/18/2024	395,213	0	20'0"	44.6	0	12'4"	17.7	100	0	18'4"	32.2	OFF
12/19/2024	438,700	0	20'0"	44.6	0	12'4"	17.7	100	0	18'3"	32.8	OFF
12/20/2024		0	20'0"	44.6	0	12'4"	17.7	100	0	18'3"	32.8	OFF
12/21/2024												
12/22/2024												
12/23/2024	639,356	0	19'8"	48.0	0	12'4"	17.7	100	0	18'1"	33.9	OFF
12/24/2024	1,246,125	0	19'7"	48.8	0	12'4"	17.7	100	0	18'1"	33.9	OFF
12/25/2024	646,275	0	19'5"	50.6	0	12'4"	17.7	100	0	18'0"	34.5	OFF
12/26/2024	1,370,106	0	19'2"	53.3	0	12'4"	17.7	100	0	18'0"	34.5	OFF
12/27/2024		0	19'0"	55.1	0	12'4"	17.7	100	0	18'0"	34.5	OFF
12/28/2024												
12/29/2024												
12/30/2024	1,157,437	0	18'7"	59.7	0	12'4"	17.7	100	0	17'10"	35.6	OFF
12/31/2024	962,250	0	18'5"	61.7	0	12'4"	17.7	100	0	17'8"	36.7	OFF
	Sutter Creek Total Flow											
Total	13,826,430	0			0				0			
Maximum	1,370,106											
Minimum	329,015											
Average Daily	714,677											

¹ The Inflow flow meter was used for these numbers due to a malfunction effluent flow meter.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

City of Sutter Creek

Update on Water Board Compliance with 13267 Letters

January 6, 2025

Overview

Section 6, Item A.

Individual order (1 of 3)

Joint order

13267 Orders

1. Individual orders issued to ARSA, Ione, and MCSP (“Individual Water Balance Orders”)
2. Joint order issued to all parties as one group

Central Valley Regional Water Quality Control Board

WATER CODE SECTION 13267 ORDER

14 August 2024

George Lee City Manager, City of Ione 1 East Main Street Ione, CA 95640 Via Email: glee@ione-ca.com	James Swift Board Chairman ARSA 18 Main Street Sutter Creek, CA 95685 Via Email: jswift@cityofsuttercreek.org	Frank Hahn President, Portlock International LTD. 9204 Skane Street Orlando, FL, 32827
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WATER CODE SECTION 13267 ORDER FOR TECHNICAL REPORT, AMADOR COUNTY REGIONAL OUTFALL AND CASTLE OAKS GOLF COURSE AND DEVELOPMENT, CITY OF IONE/AMADOR REGIONAL SANITATION AUTHORITY/PORTLOCK INT. LTD., WDR 93-246, AMADOR COUNTY

The City of Ione, Amador Regional Sanitation Authority, and Portlock International LTD. (Dischargers) are legally obligated to respond to this Order issued by the Central Valley Regional Water Quality Control Board. Please read this Order carefully.

I. Background

The Central Valley Regional Water Quality Control Board (Central Valley Water Board) regulates the Amador Regional Sanitation Authority (ARSA) system, the Ione Tertiary Treatment Plant (Tertiary Plant) and the land application areas on Castle Oaks Golf Course (COGC) under Water Reclamation Requirement Order 93-240 (WR93a). ARSA operates the ARSA system, which is leased from the Department of General Services. The City of Ione owns and operates the Tertiary Plant. The City of Ione also owns the COGC, which is leased to and operated by Portlock International LTD.

The ARSA system includes conveyance infrastructure, two land application areas (LAAs), and three storage reservoirs. The system receives secondary disinfected effluent directly from the City of Sutter Creek's wastewater treatment plant (Sutter Creek WWTP) and disposes of it on two LAAs within the ARSA system or conveys it to Preston Reservoir located in Ione. The City of Ione receives effluent from Preston Reservoir for further treatment at the Tertiary Plant and then land applies the effluent on the COGC. Under a 2007 contractual agreement with the City of Ione, Mule Creek State Prison has been sending effluent directly to the Tertiary Plant for further treatment and eventual reuse on the COGC. This discharge is not described in the WR93a.

Mark Buerger, JAMES | Patrick Pichler, Esq., Executive Director
10000 San Joaquin Street 9505, Merced, California, CA 95370 | www.waterboards.ca.gov/centralvalley/

Central Valley Regional Water Quality Control Board

WATER CODE SECTION 13267 ORDER

14 August 2024

Patrick Cowello Warden, California Department of Corrections Mule Creek State Prison P.O. Box 406059 Ione, CA 95640 Via Email: Patrick.Cowello@cdcr.ca.gov	Catherine Frazer Staff Director, California Department of Forestry and Fire Protection Cal Fire Training Center, Ione 4501 CA-104 Ione, CA 95640 Via Email: catherine.frazer@dfw.ca.gov	Crystal Jack CEO, Jackson Rancheria Development Corporation 12222 New York Ranch Road Jackson, CA 95642 Via Email: cjack@jacksoncasino.com
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George Lee City Manager, City of Ione 1 East Main Street Ione, CA 95640 Via Email: glee@ione-ca.com	James Swift Board Chairman, ARSA 18 Main Street Sutter Creek, CA 95685 Via Email: jswift@cityofsuttercreek.org	Frank Hahn President, Portlock International LTD. 9204 Skane Street Orlando, FL, 32827
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WATER CODE SECTION 13267 ORDER FOR TECHNICAL REPORT, MULE CREEK STATE PRISON, CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION/CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION, AMADOR COUNTY REGIONAL OUTFALL AND CASTLE OAKS GOLF COURSE AND DEVELOPMENT, CITY OF IONE/AMADOR REGIONAL SANITATION AUTHORITY/PORTLOCK INT. LTD., IONE WASTEWATER TREATMENT FACILITY, CITY OF IONE/JACKSON RANCHERIA DEVELOPMENT CORPORATION, AMADOR COUNTY

The California Department of Corrections and Rehabilitation, the California Department of Forestry and Fire Protection, the City of Ione, the Amador Regional Sanitation Authority, Jackson Rancheria Development Corporation, and Portlock International LTD (Parties) are legally obligated to respond to this Order issued by the Central Valley Regional Water Quality Control Board. Please read this Order carefully.

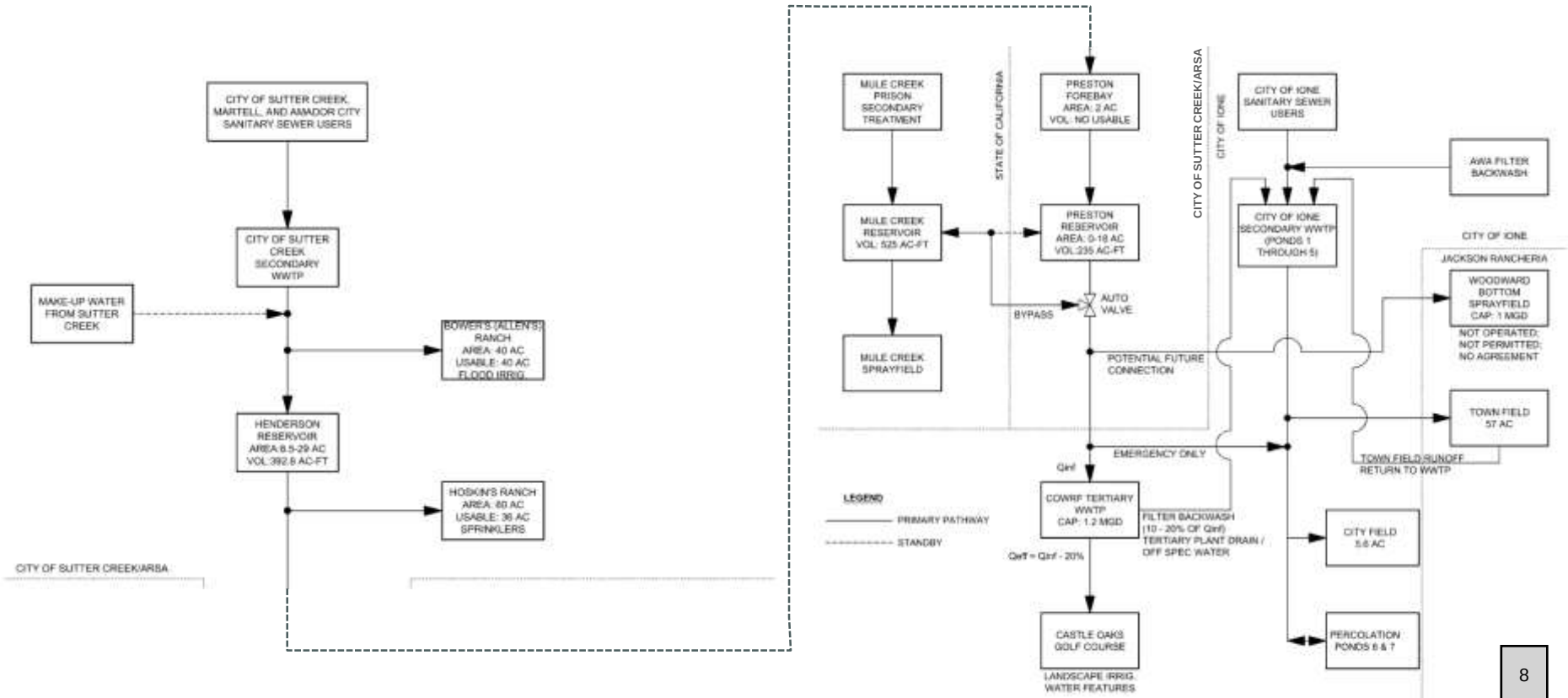
I. Introduction

The Central Valley Regional Water Quality Control Board (Central Valley Water Board or Board) regulates several interconnected wastewater treatment and disposal facilities

Mark Buerger, JAMES | Patrick Pichler, Esq., Executive Director
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ARSA System Diagram

Section 6, Item A.



Water Board's Purpose for Issuing the 13267 Letters

Section 6, Item A.

1. Existing permits are out of date and not reflective of true system capacities
2. Lack of capacity cited as an ongoing compliance problem
3. Establish individual system capacities under average and 100 year return period (100 RP) rainfall conditions (“intended to be individual exercises, if each was operated independently”)
4. Then if the parties intend to continue to operate a joint system, establish a joint water balance and a plan for creating the required capacity

13267 Letter Requirements

Section 6, Item A.

1. Current and forecasted flows (5 years)
2. Disposal acreages and agronomic rates
3. Water balance under average and 100-RP conditions
4. Calculations certified by the ARSA, Ione, and Portlock International, LTD, owner of Castle Oaks Golf Course (COGC) (“Parties”).
5. Any changes to collection system, treatment plant, and disposal features or their operation planned over the next 5 years.
6. Calculation of any excess effluent that is not addressed by current system capacity.

Timeline

Section 6, Item A.

Step	Date	Status
Draft 13267 Letters Issued	June 28, 2024	Completed
Meeting at Water Board	July 16, 2024	Completed
Draft 13267 Feedback letter issued	July 30, 2024	Completed
Final 13267 Letters Issued	August 14, 2024	Completed
Status Meeting at Water Board	October 30, 2024	Completed
Deadline for Individual Water Balance Technical Memos	December 13, 2024	Completed
Individual Water Balance Review Meeting @ Water Board	January 27, 2025	Scheduled
Deadline for Signed Statement of Intent from each Party	February 1, 2025	In Progress
Deadline for Joint Water Balance Technical Memos	May 1, 2025	Kicking off

Individual Water Balance Results

Section 6, Item A.

Growth projection for next 5 years, offset by reduced sewer infiltration and inflow (I/I):

**Table 2: Future Sutter Creek WWTP Flow Projections
Based on Population Growth and I/I Reduction Projects**

Year	ADWF (MGD)	Model Peak Month Flow (MGD)
2024	0.313	2.819
2029	0.319	2.687
Total Change	+2.17%	-4.7%

Individual Water Balance Results

Section 6, Item A.

Table 4: Summary of Water Balance Calculation Results

Row Number	Row Calculations	Parameter	Water Balance Scenario Results					
			Uncalibrated Current Flows		Calibrated Current Flows		Calibrated Future Flows	
		Climate Conditions	RP100 (Year 1)	Avg Year (Year 2)	RP100 (Year 1)	Avg Year (Year 2)	RP100 (Year 1)	Avg Year (Year 2)
Inflow Results								
A	--	WWTP Effluent (Ac-ft)	503.2	442.7	529.8	457.4	526.5	459.7
B	--	Precipitation and Runoff (Ac-ft)	230.6	120.1	230.6	120.1	230.6	120.1
C	--	Unmet Irrigation Demands (Ac-ft)	74.9	157.3	79.3	183.2	78.2	183.7
Storage Facilities Results								
D	--	Henderson Reservoir Max Storage Volume (Ac-ft)	392.8	281.7	392.8	294.1	392.8	291.3
E	--	Preston Reservoir Max Storage Volume (Ac-ft)	135.0	47.3	165.9	51.4	157.1	51.4
F	--	Henderson Reservoir Evaporation (Ac-ft)	66.5	53.7	67.0	55.5	67.3	55.3
G	--	Preston Reservoir Evaporation (Ac-ft)	33.5	43.1	42.5	18.7	41.2	18.7
Disposal Results								
H	--	Bower's Ranch Irrigation Demands (Ac-ft)	128.3	118.6	128.3	118.6	128.3	118.6
I	--	Hoskin's Ranch Irrigation Demands (Ac-ft)	115.5	106.7	115.5	106.7	115.5	106.7
J	--	COWRF & COGC Irrigation Demands (Ac-ft)	423.4	481.7	423.4	481.7	423.4	481.7
Overall Calculation Results								
K	(A+B)	Total Inflows (Ac-ft)	733.8	562.8	760.4	577.5	757.1	579.8
L	(F+G+H+I+J)	Total Outflows (Ac-ft)	767.3	803.8	776.7	781.2	775.7	780.9
M	--	Unmet Irrigation Demands (Ac-ft)	74.9	157.3	79.3	183.2	78.2	183.7
N	(D+E), or as shown ⁽¹⁾	Maximum Storage Volume Required (Ac-ft)	527.8	326.6 ⁽¹⁾	558.7	342.7 ⁽¹⁾	549.9	339.8 ⁽¹⁾
O	(627.8 Ac-ft – N)	Unutilized Storage Capacity at Peak Storage (Ac-ft)	100.0	298.8	69.1	282.3	77.9	285.1

(1) The peak month storage volumes for Henderson and Preston Reservoirs may be in different months than the overall system's peak storage month, resulting in minor discrepancies of 2.4 to 2.9 Ac-ft between Row N values and (D+E) calculations. Where discrepancies occur, Row N displays overall peak storage month volumes from water balance calculations.

ARSA Individual Water Balance Finding Summary:

Section 6, Item A.

1. Included certified flows, disposal capacities, and treatment rates from Lone and Castle Oaks
2. Without MCSP flows, the ARSA system does have adequate capacity in both rainfall scenarios but may have a shortfall of supply
3. The surplus irrigation (disposal) capacity is 78 – 185 acre-feet per year (AF/y)
4. This surplus capacity is not sufficient for:
 - MCSP contractual discharges (350 AF/y)
 - MCSP typical discharges (283 AF/y)
 - Growth at MCSP or Lone

Note: Findings may change based on Water Board input and any requirements for revision.

MCSP Individual Water Balance Finding Summary:

Section 6, Item A.

1. Wastewater flows

- Current flow: 0.38 Mgal/d
- **5-year projected flow: 0.54 Mgal/d (modeled)**
- **MCSP and MCIC max potential occupancy: 0.678 Mgal/d (modeled)**
- **Permitted treatment capacity: 0.74 Mgal/d (modeled)**

2. Storage and disposal components

- Existing Reservoir: 155 Mgal
- Existing Land Application Area: 200 acres
- Expansion Land Application Area (proposed in 2015, not constructed): 61 AC
- ARSA Agreement: 350 AF

Table 8
2013 through 2019 Average
COWRP Monthly Discharge

Month	Mgal	Acre-Feet
October	9.5	29.2
November	3.9	12.0
December	0.3	0.9
January	0.5	1.4
February	1.7	5.3
March	0.0	0.0
April	0.0	0.0
May	4.0	12.3
June	10.2	31.2
July	15.0	46.1
August	27.1	83.2
September	19.9	61.0
Total	92.1	215

MCSP Individual Water Balance Finding Summary:

Section 6, Item A.

Flow Scenario	All Storage/Disposal Performed On Site, No Upgrades	All Storage/Disposal Performed On Site, with 61 AC Additional LAA	Storage/Disposal On Site plus Water Transfer to ARSA, Volume (AF)
5-year projected flow: 0.54 Mgal/d	Not compliant	Not compliant	283 AF
MCSP and MCIC max potential occupancy: 0.67 Mgal/d	Not compliant	Not compliant	350 AF (plus additional onsite LAAs)
Permitted treatment capacity: 0.74 Mgal/d	Not compliant	Not compliant	350 AF (plus additional onsite LAAs)

Notes:

MCSP report also discusses all on-site storage/disposal upgrades options.

Findings may change based on Water Board input and any requirements for revision.

Status Summary and Next Steps

Section 6, Item A.

1. ARSA system can take 78 – 185 AF/y from MCSP, but MCSP needs to discharge up to 283 AF/y to ARSA (350 for their buildout) and/or develop expansions to onsite infrastructure
2. Lone's water balance works if they can continue to use their percolation beds. But Water Board may force lining those ponds which would cause a significant disposal shortfall at Lone.
3. Lone may need some Castle Oaks Water Reclamation Facility (COWRF) capacity in the future. COWRF needs an upgrade.
4. CDCR verbally indicated intent to participate in the Joint Water Balance effort with the goal of staying part of the system
5. Joint Water Balance effort is starting. Final report is due to Water Board on May 1, 2025

