

CHINO BASIN WATERMASTER



NOTICE OF MEETING

Thursday, October 17, 2024
9:00 a.m. – Advisory Committee Meeting

*Watermaster's function is to administer and enforce provisions of the Judgment and subsequent orders of the Court,
and to develop and implement an Optimum Basin Management Program*

**CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING**

9:00 a.m. – October 17, 2024

Mr. Jeff Pierson, Chair

Ms. Courtney Jones, Vice-Chair

Mr. Brian Geye, Second Vice-Chair

At The Offices Of

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

(Meeting can also be taken remotely via Zoom at this [link](#))

AGENDA

CALL TO ORDER

ROLL CALL

AGENDA - ADDITIONS/REORDER

SAFETY MINUTE

I. CONSENT CALENDAR

All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. MINUTES *(Page 1)*

Approve as presented:

1. Minutes of the Advisory Committee Meeting held on September 19, 2024

B. FINANCIAL REPORTS *(Page 5)*

Receive and file as presented:

Financials for the period ended August 31, 2024

II. BUSINESS ITEMS

**A. ANNUAL STREAMFLOW MONITORING REPORT FOR WATER RIGHTS PERMIT 21225
(INFORMATION ONLY) *(Page 20)***

B. ANNUAL AND SEMI-ANNUAL PLUME STATUS REPORTS (INFORMATION ONLY) *(Page 59)*

C. RESOLUTION 2024-04 – TO INCREASE THE CHINO BASIN SAFE STORAGE CAPACITY

Provide advice and assistance and recommend to the Watermaster Board to adopt Resolution 2024-04.
(Staff report will be provided separately)

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriate Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

B. ENGINEER

1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation

C. GENERAL MANAGER

1. Assessment Package Workshops
2. Other

D. INLAND EMPIRE UTILITIES AGENCY (Page 63)

1. Groundwater Recharge Update (Oral)
2. Metropolitan Water District Activities Report (Written)
3. Water Supply Conditions (Written)
4. State and Federal Legislative Reports (Written)

E. METROPOLITAN MEMBER AGENCY REPORTS

IV. INFORMATION

A. RECHARGE INVESTIGATION AND PROJECTS COMMITTEE (Page 83)

1. Monthly Project Status Update Sheet (Project 23a)
2. Potential Recharge Projects
3. IEUA Safety Improvements

V. POOL MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION – POSSIBLE ACTION

A Confidential Session may be held during the Advisory Committee meeting for the purpose of discussion and possible action.

VIII. FUTURE MEETINGS AT WATERMASTER

10/15/24	Tue	10:00 a.m.	Assessment Package Workshop #1
10/17/24	Thu	9:00 a.m.	Advisory Committee
10/17/24	Thu	10:00 a.m.	Recharge Investigations and Projects Committee (RIPComm)
10/24/24	Thu	9:30 a.m.	Watermaster Orientation*
10/24/24	Thu	11:00 a.m.	Watermaster Board
10/29/24	Tue	10:00 a.m.	2024/25 Assessment Package Workshop 2
10/30/24	Wed	1:30 p.m.	Water Rights and Replenishment Forecasting Tool Workshop
11/14/24	Thu	9:00 a.m.	Appropriative Pool Committee
11/14/24	Thu	11:00 a.m.	Non-Agricultural Pool Committee
11/14/24	Thu	1:30 p.m.	Agricultural Pool Committee
11/20/24	Wed	9:00 a.m.	Safe Yield Revaluation Workshop
11/21/24	Thu	9:00 a.m.	Advisory Committee
11/21/24	Thu	11:00 a.m.	Watermaster Board**

* The Watermaster Orientation series are held in person only with no remote access.

**The Board Meeting is being advanced by a week due to the Thanksgiving holiday.

ADJOURNMENT

DRAFT MINUTES
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING

September 19, 2024

The Advisory Committee meeting was held at the Chino Basin Watermaster offices located at 9641 San Bernardino Road, Rancho Cucamonga, CA, and via Zoom (conference call and web meeting) on September 19, 2024.

ADVISORY COMMITTEE MEMBERS PRESENT

• **AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER**

Jeff Pierson, Chair	Crops
Tariq Awan	State of California
Jimmy Medrano	State of California

• **AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT ON ZOOM**

Lewis Callahan	State of California
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• **APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER**

Courtney Jones, Vice-Chair	City of Ontario
Natalie Avila	City of Chino
Chris Diggs	City of Pomona
Amanda Coker for John Bosler	Cucamonga Valley Water District
Cris Fealy	Fontana Water Company
Chris Berch	Jurupa Community Services District

• **APPROPRIATIVE POOL COMMITTEE MEMBERS PRESENT ON ZOOM**

Ron Craig	City of Chino Hills
Nicole deMoet	City of Upland
Marty Zvirbulis	Fontana Union Water Company
Justin Scott-Coe	Monte Vista Water District
Brian Lee	San Antonio Water Company

• **NON-AGRICULTURAL POOL COMMITTEE MEMBERS PRESENT AT WATERMASTER**

Brian Geye, Second Vice-Chair	California Speedway Corporation
Bob Bowcock	CalMat Co.
Courtney Jones for Alexis Mascarinas	City of Ontario (Non-Ag)

• **MUNICIPAL REPRESENTATIVE PRESENT AT WATERMASTER**

Laura Roughton	Western Municipal Water District
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WATERMASTER BOARD MEMBERS PRESENT ON ZOOM

Mike Gardner	Western Municipal Water District
Bob Kuhn	Three Valleys Municipal Water District

WATERMASTER STAFF PRESENT

Todd Corbin	General Manager
Edgar Tellez Foster	Water Resources Mgmt. & Planning Dir.
Anna Nelson	Director of Administration
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Alonso Jurado	Water Resources Associate
Brittany Modesto	Administrative Analyst
Ruby Favela Quintero	Administrative Assistant
Jordan Garcia	Senior Field Operations Specialist
Erik Vides	Field Operations Specialist

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Brad Herrema	Brownstein Hyatt Farber Schreck, LLP
Andy Malone	West Yost

OTHERS PRESENT AT WATERMASTER

Eduardo Espinoza	Cucamonga Valley Water District
Justin Castruita	Fontana Union Water Company
Steve Smith	Inland Empire Utilities Agency
Bryan Smith	Jurupa Community Services District

OTHERS PRESENT ON ZOOM

Ben Orosco	City of Chino
Chad Nashida	City of Ontario
Jiwon Seung	Cucamonga Valley Water District
Derek Hoffman	Fennemore Law
Ben Lewis	Golden State Water Company
Eddie Lin	Inland Empire Utilities Agency
John Russ	Inland Empire Utilities Agency
Jesse Pompa	Jurupa Community Services District
Kevin O'Toole	Orange County Water District
David De Jesus	Three Valleys Municipal Water District
Rick Rees	WSP USA
Laura Roughton	Western Municipal Water District
Mallory O'Conor	Western Municipal Water District

CALL TO ORDER

Chair Pierson called the Advisory Committee meeting to order at 9:02 a.m.

ROLL CALL

(00:00:36) Ms. Nelson conducted the roll call and announced that a quorum was present.

AGENDA – ADDITIONS/REORDER

None

SAFETY MINUTE

(00:03:22) Mr. Corbin announced that Watermaster has an AED device on the premises and indicated that it is located near the front office lobby by the board room.

I. CONSENT CALENDAR

All matters listed under the Consent Calendar are considered to be routine and non-controversial and will be acted upon by one motion in the form listed below. There will be no separate discussion on these items prior to voting unless any members, staff, or the public requests specific items be discussed and/or removed from the Consent Calendar for separate action.

A. MINUTES

Approve as presented:
Minutes of the Advisory Committee Meeting held on August 15, 2024

B. FINANCIAL REPORTS

Financials for the period July 1, 2024, through August 31, 2024 will be presented at the next regular meeting.

C. OBMP SEMI-ANNUAL STATUS REPORT 2024-1

Recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2024-1, and direct staff to file a copy with the Court, subject to any necessary non-substantive changes.

D. APPLICATION: WATER TRANSACTION – 708.3 AF WEST END CONSOLIDATED WATER COMPANY TO CITY OF UPLAND

Provide advice and assistance to the Watermaster Board on the proposed transaction.

E. APPLICATION: WATER TRANSACTION – 66.4 AF WEST END CONSOLIDATED WATER COMPANY TO GOLDEN STATE WATER COMPANY

Provide advice and assistance to the Watermaster Board on the proposed transaction.

F. APPLICATION: WATER TRANSACTION – 270 AF CITY OF UPLAND TO GOLDEN STATE WATER COMPANY

Provide advice and assistance to the Watermaster Board on the proposed transaction.

(00:04:35)

Motion by Mr. Chris Berch, seconded by Mr. Cris Fealy, there being no dissent, the motion was deemed passed unanimously among those present.

Moved to approve the Consent Calendar as presented.

II. BUSINESS ITEMS

A. EMERGING CONTAMINANTS MONITORING PLAN (INFORMATION ONLY)

(00:04:58) Mr. Corbin prefaced the item and asked Mr. Malone to give a presentation.

III. REPORTS/UPDATES

A. WATERMASTER LEGAL COUNSEL

1. November 8, 2024, Court Hearing (Appropriative Pool Motion for Costs and Fees)
2. Court of Appeal Consolidated Cases No. E080457 and E082127 (City of Ontario appeal re: Fiscal Year 2021-22 and 2022-23 Assessment Packages)
3. Court of Appeal Case No. E080533 (Cities of Chino, Ontario appeal re: Fiscal Year 2022-23 Watermaster budget expenses to support CEQA analysis)
4. San Sevaine Basins – 60-day Clean Water Act Violation Notice Letter

(00:07:54) Mr. Herrema gave a report. A discussion ensued.

B. ENGINEER

1. Ground-Level Monitoring Program
2. 2025 Safe Yield Reevaluation Workshops

(00:09:13) Mr. Rapp gave a report. A discussion ensued.

C. GENERAL MANAGER

1. New Watermaster Staff Member Introduction
2. Other

(00:12:02) Mr. Corbin introduced Ms. Brittany Modesto as Watermaster's newest team member. She will be supporting the team as an administrative analyst.

D. INLAND EMPIRE UTILITIES AGENCY

1. Groundwater Recharge Update (Oral)
2. Metropolitan Water District Activities Report (Written)
3. Water Supply Conditions (Written)
4. State and Federal Legislative Reports (Written)

(00:18:05) Mr. Steve Smith of IEUA gave an update on groundwater recharge. A discussion ensued.

E. METROPOLITAN MEMBER AGENCY REPORTS

(00:28:02) Ms. Roughton with Western Municipal Water District announced that the 2-year SB366 (a long-range plan for new water goals) was passed unanimously at both houses and is awaiting the governor's signature. She also announced the Riverside County Water Task Force which will be held on October 4, 2024 from 7:30 a.m. to 9:00 a.m. and will discuss the future of AI and is open to all.

IV. INFORMATION

A. RECHARGE INVESTIGATIONS AND PROJECTS COMMITTEE (RIPCOMM)

(00:30:17) Mr. Corbin announced the Recharge Investigation and Projects Committee fact sheet that will be published monthly. It aims to aid parties in keeping up with project status, particularly Project 23a.

V. COMMITTEE MEMBER COMMENTS

None

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

A Confidential Session may be held during the Advisory Committee meeting for the purpose of discussion and possible action.

None

ADJOURNMENT

Chair Pierson adjourned the Advisory Committee meeting at 9:33 a.m.

Secretary: _____

Approved: _____



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730

909.484.3888

www.cbwm.org

STAFF REPORT

DATE: October 2024

TO: Watermaster Committees & Board

SUBJECT: Monthly Financial Reports (For the Reporting Period Ended August 31, 2024) (Consent Calendar Item I.B.)

Issue: Record of Monthly Financial Reports for the reporting periods ended August 31, 2024 [Normal Course of Business]

Recommendation: Receive and file Monthly Financial Reports for the reporting periods ended August 31, 2024 as presented.

Financial Impact: None.

Actions and Future Considerations

Appropriative Pool – October 10, 2024: Received and Filed

Non-Agricultural Pool – October 10, 2024: Received and Filed

Agricultural Pool – October 10, 2024: Received and Filed

Advisory Committee – October 17, 2024: Receive and File

Watermaster Board – October 24, 2024:

BACKGROUND

A monthly reporting packet is provided to keep all members apprised of Watermaster revenues, expenditures, and other financial activity. Monthly reports include the following:

1. Cash Disbursements – Summarized report of all payments made during the reporting month.
2. Credit Card Expense Detail – Detail report of all credit card activity during the reporting month.
3. Combining Schedule of Revenues, Expenses & Changes in Net Assets – Detail report of all revenue and expense activity for the fiscal YTD, summarized by pool category.
4. Treasurer’s Report – Summary of Watermaster investments holdings and anticipated earnings as of month end.
5. Budget to Actual Report – Detail report of actual revenue and expense activity, shown for reporting month and YTD, comparatively to the adopted budget.
6. Monthly Variance Report & Supplemental Schedules – Supporting schedule providing explanation for major budget variances. Also provides several additional tables detailing pool fund balance, salaries expense, legal expense, and engineering expense.

DISCUSSION

Detailed explanation of major variances and other additional information can be found on the “Monthly Variance Report & Supplemental Schedules.”

Watermaster staff will provide additional explanation or respond to any questions on these reports.

ATTACHMENTS

1. Monthly Financial Reports (August 31, 2024)



Chino Basin Watermaster

Cash Disbursements

August 2024

Date	Number	Vendor Name	Description	Amount
08/05/2024	24959	WOLF BEDLINERS, INC.	Bedliner for new field truck	\$ (575.13)
08/06/2024	24960	DORA CERVANTES	Carpet cleaning	(800.00)
08/06/2024	24961	EIDE BAILLY LLP	June accounting consulting services	(262.50)
08/06/2024	24962	GEYE, BRIAN		(125.00)
08/06/2024	24963	PIERSON, JEFFREY		(1,625.00)
08/06/2024	24964	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(173.78)
08/06/2024	24965	UNION 76	July fuel purchases	(155.26)
08/06/2024	24966	VISION SERVICE PLAN	September vision insurance coverage	(113.85)
08/07/2024	24967	ACWA JOINT POWERS INSURANCE AUTHORITY	September life insurance	(270.83)
08/07/2024	24968	APPLIED COMPUTER TECHNOLOGIES	Zoom database migration projects	(437.50)
08/07/2024	24969	BURRTEC WASTE INDUSTRIES, INC.	Utilities: Waste	(168.62)
08/07/2024	24970	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(479.47)
08/07/2024	24971	CONCENTRA	Pre-employment screening	(181.00)
08/07/2024	24972	ELIE, STEVEN		(250.00)
08/07/2024	24973	EMPOWER LAB	August consulting services	(500.00)
08/07/2024	24974	FRONTIER COMMUNICATIONS	Landline connection for Bay Alarm system	(152.57)
08/07/2024	24975	IRELAND SOUND SYSTEMS INC	Boardroom audio/video system service agreement	(5,340.00)
08/07/2024	24976	KAVOUNAS, PETER	Health and dental premium reimbursements	(1,478.36)
08/07/2024	24977	SAN BERNARDINO COUNTY - DEPT. AIRPORTS	August rent for extensometer site	(172.00)
08/07/2024	24978	STATE COMPENSATION INSURANCE FUND	FY 24 Worker's compensation insurance	(2,264.91)
08/07/2024	24979	USAFACT, INC.	Pre-employment background check	(120.22)
08/07/2024	24980	VANGUARD CLEANING SYSTEMS	August janitorial service and June electrostatic spraying	(1,000.00)
08/09/2024	ACH 8/9/24	CALPERS	August Medical Insurance Premiums	(16,389.54)
08/13/2024	24981	RBM LOCK & KEY	Field locks	(423.60)
08/13/2024	24982	WELL TEC SERVICES	Meter calibration test and repair parts	(49,087.50)
08/14/2024	24983	CALIFORNIA BANK & TRUST	Account ending 6198 - See detail attached	(2,329.43)
08/15/2024	24984	APPLIED COMPUTER TECHNOLOGIES	July database consulting services	(4,250.00)
08/15/2024	24985	BOWCOCK, ROBERT		(250.00)
08/15/2024	24986	C.J. BROWN & COMPANY, CPAs	FY 24 Audit services	(6,799.00)
08/15/2024	24987	CORELOGIC INFORMATION SOLUTIONS	July geographic package services	(125.00)
08/15/2024	24988	CUCAMONGA VALLEY WATER DISTRICT	September lease	(11,727.00)
08/15/2024	24989	CURATALO, JAMES		(1,375.00)
08/15/2024	24990	FEDEX	Shipping of Pools meeting packages	(122.69)
08/15/2024	24991	GRAINGER	Disposable work gloves	(230.16)
08/15/2024	24992	LEGAL SHIELD	August employee paid legal insurance	(119.55)
08/15/2024	24993	READY REFRESH	Office water dispenser lease	(130.02)
08/15/2024	24994	RUBEN LLAMAS		-
08/15/2024	24995	SOUTHERN CA EDISON	Utilities: Electric	(3,623.80)
08/15/2024	24997	VERIZON WIRELESS	Internet services for Field Ops tablets	(277.17)
08/15/2024	24998	WESTERN MUNICIPAL WATER DISTRICT		(250.00)
08/21/2024	25000	BROWNSTEIN HYATT FARBER SCHRECK	July legal services	(51,489.76)
08/21/2024	25001	EGOSCUE LAW GROUP, INC.	July OAP legal services	(5,250.00)
08/21/2024	25002	GREAT AMERICA LEASING CORP.	July copy machine lease	(1,464.61)
08/21/2024	25003	KESSLER ALAIR INSURANCE SERVICES, INC.	Policy Renewal: General E&O liability	(13,651.63)
08/21/2024	25004	SANTA ANA WATERSHED PROJECT AUTHORITY	FY 25 Basin monitoring program task force contributions	(15,984.21)
08/21/2024	25005	SOCALGAS	Utilities: Gas	(50.17)
08/21/2024	25006	UNITED HEALTHCARE	September dental insurance coverage	(622.06)
08/21/2024	25007	VC3, INC.		(5,738.60)
08/21/2024	25008	VERIZON WIRELESS	Internet services and mobile broadband unlimited	(38.01)
08/21/2024	25009	VISION SERVICE PLAN	September vision insurance coverage	(48.79)
08/22/2024	25011	SANTA ANA WATERSHED PROJECT AUTHORITY	FY 25 TMDL task force	(9,454.00)
08/22/2024	25012	NAKANO, JUSTIN	Employee mileage reimbursement	(115.24)
08/22/2024	ACH8/22/24	JOHN J. SCHATZ	May-August AP legal services	(51,035.23)
08/23/2024	ACH 8/23/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 27239	(172.92)
08/23/2024	ACH 8/23/24	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Annual Unfunded Accrued Liability-Plan 3299	(12,164.17)
08/28/2024	25013	FAVELA QUIINTERO, RUBY	Employee expense reimbursements	(565.26)
08/28/2024	25014	PETTY CASH	Petty cash replenishment	(319.82)
08/28/2024	25015	RUBEN LLAMAS		(125.00)
08/28/2024	25016	CHEF DAVE'S CATERING & EVENT SERVICES	Board meeting catering services	(447.50)
08/28/2024	25017	SOUTHERN CALIFORNIA EDISON	Utilities: Electric	(302.66)
08/28/2024	25018	STANDARD INSURANCE CO.	August life and disability coverage	(988.75)
Total for Month \$				(284,183.85)



Chino Basin Watermaster

Credit Card Expense Detail

August 2024

Date	Number	Description	Expense Account	Amount
08/14/2024	24983	CALIFORNIA BANK & TRUST		
		Microsoft Software - Software used by J. Garcia	6054 - Computer Software	(15.00)
		REV Subscription - Speech to text transcription services	6112 - Subscriptions/Publications	(29.99)
		Mariscos Kikas Inc. - Lunch meeting E. Tellez Foster and H. Dyer	6141.1 - Meeting Supplies	(34.34)
		Panera Bread - CBWM OPS meeting	6141.1 - Meeting Supplies	(75.65)
		FedEx - Mailing	6042 - Postage - General	(37.70)
		Bamboo HR - HRIS and Timekeeping System	6061.2 - HRIS System	(230.14)
		Amazon - Toner Magenta	6031.7 - General Office Supplies	(124.57)
		Amazon - Farewell Event for A. Moore	6031.7 - General Office Supplies	(11.37)
		Amazon - Farewell Event for A. Moore	6031.7 - General Office Supplies	(13.93)
		Amazon - Farewell Event for A. Moore	6031.7 - General Office Supplies	(21.29)
		Nothing Bundt Cake - Farewell dessert for A. Moore	6141.1 - Meeting Supplies	(60.29)
		Amazon - Misc. office supplies	6031.7 - General Office Supplies	(215.87)
		Chipotle - Farewell Event for A. Moore	6141.1 - Meeting Supplies	(347.24)
		Amazon - Water bottle for E. Vides	6031.7 - General Office Supplies	(29.08)
		BlueHost - Monthly Software Renewal - Standard VPN Server with cPanel	6054 - Computer Software	(91.99)
		LinkedIn - Premium Career Monthly Subscription	6112 - Subscriptions/Publications	(39.99)
		Amazon - Wiper blades for work truck	6177 - Vehicle Repairs & Maintenanc	(44.80)
		Amazon - Misc. office supplies	6031.7 - General Office Supplies	(37.69)
		Amazon - Toner Cyan	6031.7 - General Office Supplies	(125.95)
		Amazon - Toner Black	6031.7 - General Office Supplies	(117.22)
		Amazon - Labels	6031.7 - General Office Supplies	(25.85)
		Amazon - Truck door part	6177 - Vehicle Repairs & Maintenanc	(44.75)
		Amazon - Keyboard	6031.7 - General Office Supplies	(51.73)
		Amazon - Manila folders	6031.7 - General Office Supplies	(28.97)
		The Back Abbey - Lunch meeting T. Corbin and B. Bowcock	6141.1 - Meeting Supplies	(57.18)
		Home Depot - Office plants, soil, and planters	6031.7 - General Office Supplies	(304.11)
		Mestiza Coffeehouse - Breakfast meeting T. Corbin, S. Burton, M. Martinez	6141.1 - Meeting Supplies	(29.60)
		Biaani' Café & Kitchen - Breakfast meeting T. Corbin, S. Elie	6141.1 - Meeting Supplies	(30.77)
		Lowes - Plant saucer	6031.7 - General Office Supplies	(52.37)
Total for Month				\$ (2,329.43)



Chino Basin Watermaster

Combining Schedule of Revenues, Expenses & Changes in Net Assets

For the Period of July 1, 2024 through August 31, 2024

(Unaudited)

	JUDGMENT ADMIN.	OPTIMUM BASIN MGMT.	TOTAL JUDGMENT ADMIN & OBMP	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUND WATER REPLENISH.	GRAND TOTALS	ADOPTED BUDGET 2024-2025 WITH CARRYOVER
				AP POOL	OAP POOL	ONAP POOL			
Administrative Revenues:									
Administrative Assessments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,833,780
Interest Revenue	-	75,613	75,613	2,958	11,978	560	1,537	92,646	478,500
Groundwater Replenishment	-	-	-	-	-	-	-	-	-
Mutual Agency Project Revenue	191,073	-	191,073	-	-	-	-	191,073	191,070
Miscellaneous Income	1,407	-	1,407	-	-	-	-	1,407	-
Total Administrative Revenues	192,480	75,613	268,093	2,958	11,978	560	1,537	285,126	10,503,350
Administrative & Project Expenditures:									
Watermaster Administration	534,372	-	534,372	-	-	-	-	534,372	2,528,540
Watermaster Board-Advisory Committee	47,257	-	47,257	-	-	-	-	47,257	422,420
Optimum Basin Mgmt Administration	-	146,198	146,198	-	-	-	-	146,198	1,437,940
OBMP Project Costs	-	542,433	542,433	-	-	-	-	542,433	4,971,020
Pool Legal Services	-	-	-	31,091	5,250	1,309	-	37,650	-
Pool Meeting Compensation	-	-	-	-	3,875	500	-	4,375	-
Pool Special Projects	-	-	-	-	9,454	-	-	9,454	-
Pool Administration	-	-	-	-	-	-	-	-	370,660
Debt Service	-	-	-	-	-	-	-	-	772,770
Agricultural Expense Transfer ¹	-	-	-	18,579	(18,579)	-	-	-	-
Replenishment Water Assessments	-	-	-	-	-	-	-	-	180,234
Total Administrative Expenses	581,629	688,632	1,270,260	49,670	-	1,809	-	1,321,739	10,683,584
Net Ordinary Income	(389,148)	(613,019)	(1,002,167)	(46,712)	11,978	(1,249)	1,537	(1,036,613)	(180,234)
Other Income/(Expense)									
Refund-Recharge Debt Service	-	-	-	-	-	-	-	-	-
Carryover Budget*	-	-	-	-	-	-	-	-	454,875
Net Other Income/(Expense)	-	-	-	-	-	-	-	-	454,875
Net Transfers To/(From) Reserves	\$ (389,148)	\$ (613,019)	\$ (1,002,167)	\$ (46,712)	\$ 11,978	\$ (1,249)	\$ 1,537	\$ (1,036,613)	\$ 274,640
Net Assets, July 1, 2024			8,794,214	555,405	1,404,964	65,733	180,234	11,000,551	
Refund-Excess Operating Reserves			-					-	
Net Assets, End of Period			7,792,047	508,693	1,416,942	64,485	181,771	9,963,937	
Pool Assessments Outstanding				(86,315)	(586,852)	-			
Pool Fund Balance				\$ 422,377	\$ 830,090	\$ 64,485			

¹ Fund balance transfer as agreed to in the Peace Agreement.

*Carryover budget will be updated once the FY 2023-24 has been finalized.



Chino Basin Watermaster

Treasurer's Report

August 2024

	Type	Monthly Yield	Cost	Market	% Total
Cash & Investments					
Local Agency Investment Fund (LAIF) *	Investment	4.58%	\$ 643,374	\$ 641,003	5.9%
CA CLASS Prime Fund **	Investment	5.41%	9,842,483	9,843,517	90.6%
Bank of America	Checking		376,671	376,671	3.5%
Bank of America	Payroll		-	-	0.0%
Total Cash & Investments			\$ 10,862,528	\$ 10,861,191	100.0%

* The LAIF Market Value factor is updated quarterly in September, December, March, and June.

** The CLASS Prime Fund Net Asset Value factor is updated monthly.

Certification

I certify that (1) all investment actions executed since the last report have been made in full compliance with Chino Basin Watermaster's Investment Policy, and (2) Funds on hand are sufficient to meet all foreseen and planned administrative and project expenditures for the next six months.

Anna Nelson, Director of Administration

Prepared By:

Daniela Uriarte, Senior Accountant



Chino Basin Watermaster

Budget to Actual

For the Period July 1, 2024 to August 31, 2024

(Unaudited)

	August 2024	YTD Actual	FY 25 Adopted Budget with Carryover	\$ Over / (Under) Budget	% of Budget
1 Administration Revenue					
2 Local Agency Subsidies	\$ -	\$ 191,073	\$ 191,070	\$ 3	100%
3 Admin Assessments-Appropriative Pool	-	-	9,521,030	(9,521,030)	0%
4 Admin Assessments-Non-Ag Pool	-	-	312,750	(312,750)	0%
5 Total Administration Revenue	-	191,073	10,024,850	(9,833,777)	2%
6 Other Revenue					
7 Appropriative Pool-Replenishment	-	-	-	-	N/A
8 Non-Ag Pool-Replenishment	-	-	-	-	N/A
9 Interest Income	36,565	75,613	478,500	(402,887)	16%
10 Miscellaneous Income	-	1,407	-	1,407	N/A
11 Carryover Budget	-	-	454,875	(454,875)	0%
12 Total Other Revenue	36,565	77,020	933,375	(856,354)	8%
13 Total Revenue	36,565	268,093	10,958,225	(10,690,132)	2%
14 Judgment Administration Expense					
15 Judgment Administration	34,900	79,632	721,010	(641,378)	11%
16 Admin. Salary/Benefit Costs	87,253	208,853	1,032,120	(823,267)	20%
17 Office Building Expense	18,236	41,181	234,470	(193,289)	18%
18 Office Supplies & Equip.	2,526	5,038	46,760	(41,722)	11%
19 Postage & Printing Costs	1,643	3,600	32,950	(29,350)	11%
20 Information Services	11,663	18,626	232,530	(213,904)	8%
21 Contract Services	903	10,992	111,460	(100,468)	10%
22 Watermaster Legal Services	51,713	73,429	414,060	(340,631)	18%
23 Insurance	13,457	38,572	50,950	(12,378)	76%
24 Dues and Subscriptions	210	280	25,900	(25,620)	1%
25 Watermaster Administrative Expenses	549	1,184	9,630	(8,446)	12%
26 Field Supplies	290	520	3,200	(2,680)	16%
27 Travel & Transportation	2,537	65,254	104,960	(39,706)	62%
28 Training, Conferences, Seminars	2,029	2,529	49,370	(46,842)	5%
29 Advisory Committee Expenses	5,740	5,740	134,130	(128,390)	4%
30 Watermaster Board Expenses	19,029	41,516	288,290	(246,774)	14%
31 ONAP - WM & Administration	4,050	4,373	120,940	(116,567)	4%
32 OAP - WM & Administration	6,227	6,550	124,220	(117,670)	5%
33 Appropriative Pool- WM & Administration	16,442	21,180	125,500	(104,320)	17%
34 Allocated G&A Expenditures	(27,131)	(47,420)	(540,830)	493,410	9%
35 Total Judgment Administration Expense	252,266	581,629	3,321,620	(2,739,991)	18%
36 Optimum Basin Management Plan (OBMP)					
37 Optimum Basin Management Plan	73,902	146,198	1,437,940	(1,291,742)	10%
38 Groundwater Level Monitoring	29,978	60,473	585,050	(524,577)	10%
39 Program Element (PE)2- Comp Recharge	11,344	33,722	1,774,300	(1,740,578)	2%
40 PE3&5-Water Supply/Desalte	840	(27,354)	122,010	(149,364)	-22%
41 PE4- Management Plan	75,362	162,215	412,400	(250,185)	39%
42 PE6&7-CoopEfforts/SaltMgmt	111,077	122,006	669,380	(547,374)	18%
43 PE8&9-StorageMgmt/Conj Use	81,452	143,950	867,050	(723,100)	17%
44 Recharge Improvements	-	-	772,770	(772,770)	0%
45 Administration Expenses Allocated-OBMP	10,470	17,723	232,750	(215,027)	8%
46 Administration Expenses Allocated-PE 1-9	16,662	29,697	308,080	(278,383)	10%
47 Total OBMP Expense	411,086	688,632	7,181,730	(6,493,098)	10%
48 Other Expense					
49 Groundwater Replenishment	-	-	180,234	(180,234)	0%
50 Total Other Expense	-	-	180,234	(180,234)	0%
51 Total Expenses	663,352	1,270,260	10,683,584	(9,413,324)	12%
52 Increase / (Decrease) to Reserves	\$ (626,787)	\$ (1,002,167)	\$ 274,640	\$ (1,276,807)	



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024

(Unaudited)

Budget to Actual

The Budget to Actual report summarizes the operating and non-operating revenues and expenses of Chino Basin Watermaster for the fiscal year-to-date (YTD). Columns are included for current monthly and YTD activity shown comparatively to the FY 25 adopted budget. The final two columns indicate the amount over or under budget, and the YTD percentage of total budget used.

Revenues

Lines 1-5 Administration Revenue – Includes local agency subsidies and administrative assessment for the Appropriate, Agricultural and Non-Agricultural Pools. Below is a summary of notable account variances at month end:

- Line 2 Local Agency Subsidies includes the annual Dy Year Yield (DYY) administrative fee received. This account is at 100% of budget due to the timing of payment.

Lines 6-12 Other Revenue – Includes Pool replenishment assessments, interest income, miscellaneous income, and carryover budget from prior years.

Expenses

Lines 14-35 Judgment Administration Expense – Includes Watermaster general administrative expenses, contract services, insurance, office and other administrative expenses. Below is a summary of notable account variances at month end:

- Line 16 Admin Salary/Benefit Costs includes wages and benefits for Watermaster administrative staff. The account is slightly over budget due to vacation and severance payouts done in July.
- Line 23 Insurance includes general liability insurance, directors' and officers' liability, municipalities coverage, environmental pollution liability and other various insurance policies. The account is at 76% of budget due to the timing of policy renewals.
- Line 27 Travel & Transportation includes travel and transportation costs related to Watermaster business, not related to conferences and seminars, vehicle fuel, repairs and maintenance, and vehicle purchases. The account is at 62% of budget due to the timing of the new field vehicle purchase.

Lines 36-47 Optimum Basin Management Plan (OBMP) Expense – Includes legal, engineering, groundwater level monitoring, allocated administrative expenses, and other expenses.

Lines 48-50 Other Expense – Includes groundwater replenishment, and various refunds as appropriate.



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024

(Unaudited)

Pool Services Fund Accounting

Each Pool has a fund account created to pay their own legal service invoices. The legal services invoices are funded and paid using the fund accounts (8467 for the Overlying Agricultural Pool (OAP), 8567 for the Overlying Non-Agricultural Pool (ONAP), and 8367 for the Appropriate Pool (AP)). Along with the legal services fund account for the OAP (8467), the OAP also has two other fund accounts for Ag Pool Meeting Attendance expenses (8470), and Special Projects expenses (8471). The ONAP also has a meeting compensation fund account (8511). Additionally, the OAP has a reserve fund that is held by Watermaster and spent at the direction of the OAP. The AP also has account 8368 relating to the Tom Harder contract. These fund accounts are replenished at the direction of each Pool, and the legal service invoices are approved by the Pool leadership and when paid by Watermaster, are deducted from the existing fund account balances. If the fund account for any pool reaches zero, no further payments can be paid from the fund and a replenishment action must be initiated by the Pool.

The following tables detail the fund balance accounts as of August 31, 2024 (continued next page):

Fund Balance For Non-Agricultural Pool Account 8567 - Legal Services		Fund Balance For Appropriate Pool Account 8367 - Legal Services	
Beginning Balance July 1, 2024:	\$ 63,483.09	Beginning Balance July 1, 2024:	\$ (9,472.87)
Additions:			
Interest Earnings	560.41	Interest Earnings	2,957.76
Subtotal Additions:	560.41	Subtotal Additions:	2,957.76
Reductions:			
Invoices paid July 2024 - Aug. 2024	(1,309.00)	Invoices paid July 2024 - Aug. 2024	(31,091.23)
Subtotal Reductions:	(1,309.00)	Subtotal Reductions:	(31,091.23)
Available Fund Balance as of Aug. 31, 2024	\$ 62,734.50	Available Fund Balance as of Aug. 31, 2024	\$ (37,606.34)

Fund Balance For Non-Agricultural Pool Account 8511 - Meeting Compensation		Fund Balance For Appropriate Pool Account 8368 - Tom Harder Contract	
Beginning Balance July 1, 2024:	\$ 2,250.00	Beginning Balance July 1, 2024:	\$ 20,577.61
Reductions:			
Compensation paid July 2024 - Aug. 2024	(500.00)	Invoices paid July 2024 - Aug. 2024	-
Subtotal Reductions:	(500.00)	Subtotal Reductions:	-
Available Fund Balance as of Aug. 31, 2024	\$ 1,750.00	Available Fund Balance as of Aug. 31, 2024	\$ 20,577.61



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024

(Unaudited)

Pool Services Fund Accounting – Cont.

Fund Balance for Agricultural Pool Account 8467 - Legal Services (Held by AP)

Beginning Balance July 1, 2024*:	\$ 388,647.51
Reductions:	
Invoices paid July 2024 - Aug. 2024	(5,250.00)
Subtotal Reductions:	<u>(5,250.00)</u>
Available Fund Balance as of Aug. 31, 2024	<u>\$ 383,397.51</u>

*Balance includes payments received totaling \$262,832.38 for Settlement Agreement outstanding invoices issued Apr. 15, 2022 and Jun. 17, 2022.

Agricultural Pool Reserve Funds As shown on the Combining Schedules

Beginning Balance July 1, 2024*:	\$ 818,112.17
Additions:	
YTD Interest earned on Ag Pool Funds FY 25	11,978.03
Transfer of Funds from AP to Special Fund for Legal Service Invoices	5,250.00
Total Additions:	<u>17,228.03</u>
Reductions:	
Legal service invoices paid July 2024 - Aug. 2024	<u>(5,250.00)</u>
Total Reductions	<u>(5,250.00)</u>
Agricultural Pool Reserve Funds Balance as of Aug. 31, 2024:	<u>\$ 830,090.20</u>

*Balance includes payments of \$102,245.10 and \$42,025.61 received in FY 24 for outstanding invoices issued Sep. 9, 2022 and Apr. 20, 2023 for Ag Pool legal services, respectively.

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation (Held by AP)

Beginning Balance July 1, 2024:	\$ 17,694.65
Reductions:	
Compensation paid July 2024 - Aug. 2024	(3,875.00)
Subtotal Reductions:	<u>(3,875.00)</u>
Available Fund Balance as of Aug. 31, 2024	<u>\$ 13,819.65</u>

Fund Balance For Agricultural Pool Account 8471 - Special Projects (Held by AP)

Beginning Balance July 1, 2024:	\$ 51,643.00
Reductions:	
Invoices paid July 2024 - Aug. 2024	(9,454.00)
Subtotal Reductions:	<u>(9,454.00)</u>
Available Fund Balance as of Aug. 31, 2024	<u>\$ 42,189.00</u>



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024

(Unaudited)

Watermaster Salary Expenses

The following table details the Year-To-Date (YTD) Actual Watermaster burdened salary costs compared to the FY 25 adopted budget. The “\$ Over Budget” and the “% of Budget” columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	\$ Over / (Under) Budget	% of Budget
WM Salary Expense				
5901.1 · Judgment Admin - Doc. Review	6,870	93,860	(86,990)	7.3%
5901.3 · Judgment Admin - Field Work	1,716	11,860	(10,144)	14.5%
5901.5 · Judgment Admin - General	2,705	81,090	(78,385)	3.3%
5901.7 · Judgment Admin - Meeting	6,150	39,710	(33,561)	15.5%
5901.9 · Judgment Admin - Reporting	946	13,890	(12,944)	6.8%
5910 · Judgment Admin - Court Coord./Attendance	899	16,970	(16,071)	5.3%
5911 · Judgment Admin - Exhibit G	-	6,400	(6,400)	0.0%
5921 · Judgment Admin - Production Monitoring	-	5,440	(5,440)	0.0%
5931 · Judgment Admin - Recharge Applications	683	-	683	100.0%
5941 · Judgment Admin - Reporting	-	2,140	(2,140)	0.0%
5951 · Judgment Admin - Rules & Regs	-	11,260	(11,260)	0.0%
5961 · Judgment Admin - Safe Yield	8,945	9,510	(565)	94.1%
5971 · Judgment Admin - Storage Agreements	125	13,000	(12,875)	1.0%
5981 · Judgment Admin - Water Accounting/Database	18,396	108,290	(89,894)	17.0%
5991 · Judgment Admin - Water Transactions	3,357	5,330	(1,973)	63.0%
6011.11 · WM Staff - Overtime	1,631	18,000	(16,369)	9.1%
6011.10 · Admin - Accounting	37,936	278,330	(240,394)	13.6%
6011.15 · Admin - Building Admin	11,753	31,200	(19,447)	37.7%
6011.20 · Admin - Conference/Seminars	4,332	58,530	(54,198)	7.4%
6011.25 · Admin - Document Review	7,524	2,620	4,904	287.2%
6011.50 · Admin - General	56,095	362,560	(306,465)	15.5%
6011.60 · Admin - HR	20,097	50,450	(30,353)	39.8%
6011.70 · Admin - IT	9,476	34,070	(24,594)	27.8%
6011.80 · Admin - Meeting	16,963	39,760	(22,797)	42.7%
6011.90 · Admin - Team Building	1,215	41,550	(40,335)	2.9%
6011.95 · Admin - Training (Give/Receive)	880	64,160	(63,280)	1.4%
6017 · Temporary Services	-	26,040	(26,040)	0.0%
6201 · Advisory Committee	3,110	82,850	(79,740)	3.8%
6301 · Watermaster Board	21,329	83,910	(62,581)	25.4%
8301 · Appropriative Pool	16,592	67,280	(50,688)	24.7%
8401 · Agricultural Pool	3,364	66,005	(62,641)	5.1%
8501 · Non-Agricultural Pool	1,559	62,725	(61,166)	2.5%
6901.1 · OBMP - Document Review	8,221	95,294	(87,073)	8.6%
6901.3 · OBMP - Field Work	356	50,870	(50,514)	0.7%
6901.5 · OBMP - General	9,479	81,120	(71,641)	11.7%
6901.7 · OBMP - Meeting	5,187	80,360	(75,173)	6.5%
6901.9 · OBMP - Reporting	1,523	11,040	(9,517)	13.8%
7104.1 · PE1 - Monitoring Program	30,329	275,499	(245,170)	11.0%
7201 · PE2 - Comprehensive Recharge	7,065	71,753	(64,688)	9.8%
7301 · PE3&5 - Water Supply/Desalter	-	9,515	(9,515)	0.0%
7301.1 · PE5 - Reg. Supply Water Prgm.	840	9,510	(8,671)	8.8%
7401 · PE4 - MZ1 Subsidence Mgmt. Plan	-	14,040	(14,040)	0.0%
7501 · PE6 - Coop. Programs/Salt Mgmt.	712	9,514	(8,802)	7.5%
7501.1 · PE 7 - Salt Nutrient Mgmt. Plan	-	9,510	(9,510)	0.0%
7601 · PE8&9 - Storage Mgmt./Recovery	2,669	22,520	(19,851)	11.9%
Subtotal WM Staff Costs	332,297	2,529,335	(2,197,038)	13%
60184.1 · Administrative Leave	-	6,550	(6,550)	0.0%
60185 · Vacation	35,781	90,280	(54,500)	39.6%
60185.1 · Comp Time	4,071	-	4,071	100.0%
60186 · Sick Leave	7,241	79,450	(72,209)	9.1%
60187 · Holidays	-	-	-	0.0%
Subtotal WM Paid Leaves	47,092	176,280	(129,188)	27%
Total WM Salary Costs	379,389	2,705,615	(2,326,226)	14.0%



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024
(Unaudited)

Engineering

The following table details the Year-To-Date (YTD) Actual Engineering costs compared to the FY 24 adopted budget. The “\$ Over Budget” and the “% of Budget” columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	\$ Over / (Under) Budget	% of Budget
Engineering Services Costs				
5901.8 · Judgment Admin - Meetings-Engineering Services	\$ -	\$ 37,066	\$ (37,066)	0.0%
5906.71 · Judgment Admin - Data Requests-CBWM Staff	11,489	101,048	(89,559)	11.4%
5906.72 · Judgment Admin - Data Requests-Non-CBWM Staff	5,175	37,008	(31,834)	14.0%
5925 · Judgment Admin - Ag Production & Estimation	6,297	31,096	(24,799)	20.3%
5935 · Judgment Admin - Mat'l Physical Injury Requests	-	39,459	(39,459)	0.0%
5945 · Judgment Admin - WM Annual Report Preparation	5,882	16,924	(11,043)	34.8%
5965 · Judgment Admin - Support Data Collection & Mgmt Process	-	39,659	(39,659)	0.0%
6206 · Advisory Committee Meetings-WY Staff	1,324	23,510	(22,186)	5.6%
6306 · Watermaster Board Meetings-WY Staff	2,965	23,510	(20,545)	12.6%
8306 · Appropriative Pool Meetings-WY Staff	3,369	23,510	(20,141)	14.3%
8406 · Agricultural Pool Meetings-WY Staff	1,967	23,510	(21,543)	8.4%
8506 · Non-Agricultural Pool Meetings-WY Staff	1,596	23,510	(21,914)	6.8%
6901.8 · OBMP - Meetings-WY Staff	7,191	37,066	(29,875)	19.4%
6901.95 · OBMP - Reporting-WY Staff	19,682	62,606	(42,925)	31.4%
6906 · OBMP Engineering Services - Other	15,559	51,440	(35,881)	30.2%
6906.1 · OBMP Watermaster Model Update	-	67,596	(67,596)	0.0%
6906.21 · State of the Basin Report	-	195,188	(195,188)	0.0%
7104.3 · Grdwtr Level-Engineering	29,720	254,627	(224,907)	11.7%
7104.8 · Grdwtr Level-Contracted Services	-	26,174	(26,174)	0.0%
7104.9 · Grdwtr Level-Capital Equipment	-	17,000	(17,000)	0.0%
7202 · PE2-Comp Recharge-Engineering Services	2,135	23,496	(21,362)	9.1%
7202.2 · PE2-Comp Recharge-Engineering Services	24,523	75,944	(51,421)	32.3%
7302 · PE3&5-PBHSP Monitoring Program	(28,193)	73,305	(101,498)	-38.5%
7303 · PE3&5-Engineering - Other	-	16,180	(16,180)	0.0%
7306 · PE3&5-Engineering - Outside Professionals	-	6,500	(6,500)	0.0%
7402 · PE4-Engineering	94,047	281,239	(187,192)	33.4%
7402.10 · PE4-Northwest MZ1 Area Project	45,480	16,656	28,824	273.1%
7403 · PE4-Eng. Services-Contracted Services-InSar	22,000	39,600	(17,600)	55.6%
7406 · PE4-Engineering Services-Outside Professionals	-	38,600	(38,600)	0.0%
7408 · PE4-Engineering Services-Network Equipment	-	17,555	(17,555)	0.0%
7502 · PE6&7-Engineering	50,119	398,309	(348,190)	12.6%
7505 · PE6&7-Laboratory Services	26,400	61,242	(34,842)	43.1%
7510 · PE6&7-IEUA Salinity Mgmt. Plan	3,526	-	3,526	100.0%
7511 · PE6&7-SAWBMP Task Force-50% IEUA	-	27,067	(27,067)	0.0%
7517 · Surface Water Monitoring Plan-Chino Creek - 50% IEUA	(8,164)	33,574	(41,738)	-24.3%
7520 · Preparation of Water Quality Mgmt. Plan	-	130,164	(130,164)	0.0%
7610 · PE8&9-Support 2020 Mgmt. Plan	-	32,585	(32,585)	0.0%
7614 · PE8&9-Support Imp. Safe Yield Court Order	141,281	768,963	(627,683)	18.4%
7615 · PE8&9-Develop 2025 Storage Plan	-	42,632	(42,632)	0.0%
Total Engineering Services Costs	\$ 485,368	\$ 3,215,118	\$ (2,729,750)	15.1%



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024
(Unaudited)

Legal

The following table details the YTD Brownstein Hyatt Farber Schreck (BHFS) expenses and costs compared to the FY 24 adopted budget. The “\$ Over Budget” and the “% of Budget” columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	\$ Over / (Under) Budget	% of Budget
6070 · Watermaster Legal Services				
6071 · BHFS Legal - Court Coordination	\$ 15,432	\$ 144,040	\$ (128,608)	10.7%
6072 · BHFS Legal - Rules & Regulations	-	10,500	(10,500)	0.0%
6073 · BHFS Legal - Personnel Matters	39,304	28,150	11,154	139.6%
6074 · BHFS Legal - Interagency Issues	-	40,540	(40,540)	0.0%
6077 · BHFS Legal - Party Status Maintenance	-	13,590	(13,590)	0.0%
6078 · BHFS Legal - Miscellaneous (Note 1)	18,694	177,240	(158,546)	10.5%
Total 6070 · Watermaster Legal Services	73,429	414,060	(340,631)	17.7%
6275 · BHFS Legal - Advisory Committee	1,306	27,770	(26,464)	4.7%
6375 · BHFS Legal - Board Meeting	11,388	88,705	(77,317)	12.8%
6375.1 · BHFS Legal - Board Workshop(s)	-	14,000	(14,000)	0.0%
8375 · BHFS Legal - Appropriative Pool	1,218	34,710	(33,492)	3.5%
8475 · BHFS Legal - Agricultural Pool	1,218	34,705	(33,487)	3.5%
8575 · BHFS Legal - Non-Ag Pool	1,218	34,705	(33,487)	3.5%
Total BHFS Legal Services	16,348	234,595	(218,247)	7.0%
6907.3 · WM Legal Counsel				
6907.31 · Archibald South Plume	-	12,565	(12,565)	0.0%
6907.32 · Chino Airport Plume	-	12,565	(12,565)	0.0%
6907.33 · Desalter/Hydraulic Control	-	38,680	(38,680)	0.0%
6907.34 · Santa Ana River Water Rights	57	21,405	(21,348)	0.3%
6907.36 · Santa Ana River Habitat	-	31,280	(31,280)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	-	63,200	(63,200)	0.0%
6907.39 · Recharge Master Plan	41,640	14,270	27,370	291.8%
6907.41 · Prado Basin Habitat Sustainability	-	10,290	(10,290)	0.0%
6907.44 · SGMA Compliance	114	10,290	(10,176)	1.1%
6907.45 · OBMP Update	-	177,240	(177,240)	0.0%
6907.47 · 2020 Safe Yield Reset	17,203	80,190	(62,987)	21.5%
6907.48 · Ely Basin Investigation	4,003	64,890	(60,887)	6.2%
6907.90 · WM Legal Counsel - Unanticipated	-	38,885	(38,885)	0.0%
Total 6907 · WM Legal Counsel	63,017	575,750	(512,733)	10.9%
Total Brownstein, Hyatt, Farber, Schreck Costs	\$ 152,794	\$ 1,224,405	\$ (1,071,612)	12.5%



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024
(Unaudited)

Optimum Basin Management Plan (OBMP)

The following table details the Year-To-Date (YTD) Actual OBMP costs compared to the FY 24 adopted budget. The “\$ Over Budget” and the “% of Budget” columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	\$ Over / (Under) Budget	% of Budget
6900 · Optimum Basin Mgmt Plan				
6901.1 · OBMP - Document Review-WM Staff	\$ 8,221	\$ 95,294	\$ (87,073)	8.6%
6901.3 · OBMP - Field Work-WM Staff	356	50,870	(50,514)	0.7%
6901.5 · OBMP - General-WM Staff	9,479	81,120	(71,641)	11.7%
6901.7 · OBMP - Meeting-WM Staff	5,187	80,360	(75,173)	6.5%
6901.8 · OBMP - Meeting-West Yost	7,191	37,066	(29,875)	19.4%
6901.9 · OBMP - Reporting-WM Staff	1,523	11,040	(9,517)	13.8%
6901.95 · OBMP - Reporting-West Yost	19,682	62,606	(42,925)	31.4%
Total 6901 · OBMP WM and West Yost Staff	51,638	418,356	(366,718)	12.3%
6903 · OBMP - SAWPA				
6903 · OBMP - SAWPA Group	15,984	15,990	(6)	100.0%
Total 6903 · OBMP - SAWPA	15,984	15,990	(6)	100.0%
6906 · OBMP Engineering Services				
6906.1 · OBMP - Watermaster Model Update	-	67,596	(67,596)	0.0%
6906.21 · State of the Basin Report	-	195,188	(195,188)	0.0%
6906 · OBMP Engineering Services - Other	15,559	51,440	(35,881)	30.2%
Total 6906 · OBMP Engineering Services	15,559	314,224	(298,665)	5.0%
6907 · OBMP Legal Fees				
6907.31 · Archibald South Plume	-	12,565	(12,565)	0.0%
6907.32 · Chino Airport Plume	-	12,565	(12,565)	0.0%
6907.33 · Desalter/Hydraulic Control	-	38,680	(38,680)	0.0%
6907.34 · Santa Ana River Water Rights	57	21,405	(21,348)	0.3%
6907.36 · Santa Ana River Habitat	-	31,280	(31,280)	0.0%
6907.38 · Reg. Water Quality Cntrl Board	-	63,200	(63,200)	0.0%
6907.39 · Recharge Master Plan	41,640	14,270	27,370	291.8%
6907.41 · Prado Basin Habitat Sustainability	-	10,290	(10,290)	0.0%
6907.44 · SGMA Compliance	114	10,290	(10,176)	1.1%
6907.45 · OBMP Update	-	177,240	(177,240)	0.0%
6907.47 · 2020 Safe Yield Reset	17,203	80,190	(62,987)	21.5%
6907.48 · Ely Basin Investigation	4,003	64,890	(60,887)	6.2%
6907.49 · San Sevaine Basin Discharge	-	110,080	(110,080)	0.0%
6907.90 · WM Legal Counsel - Unanticipated	-	38,885	(38,885)	0.0%
Total 6907 · OBMP Legal Fees	63,017	685,830	(622,813)	9.2%
6909 · OBMP Other Expenses				
6909.6 · OBMP Expenses - Miscellaneous	-	3,540	(3,540)	0.0%
Total 6909 · OBMP Other Expenses	-	3,540	(3,540)	0.0%
Total 6900 · Optimum Basin Mgmt Plan	\$ 146,198	\$ 1,437,940	\$ (1,291,742)	10.2%



Chino Basin Watermaster

Monthly Variance Report & Supplemental Schedules

For the period July 1, 2024 to August 31, 2024
(Unaudited)

Judgment Administration

The following table details the Year-To-Date (YTD) Actual Judgment Administration costs compared to the FY 24 adopted budget. The “\$ Over Budget” and the “% of Budget” columns are a comparison of the YTD actual to the annual budget.

	Year to Date Actual	FY 24-25 Budget	\$ Over / (Under) Budget	% of Budget
5901 · Admin-WM Staff				
5901.1 · Admin-Doc. Review-WM Staff	\$ 6,870	\$ 93,860	\$ (86,990)	7.3%
5901.3 · Admin-Field Work-WM Staff	1,716	11,860	(10,144)	14.5%
5901.5 · Admin-General-WM Staff	2,705	81,090	(78,385)	3.3%
5901.7 · Admin-Meeting-WM Staff	6,150	39,710	(33,561)	15.5%
5901.8 · Admin-Meeting - West Yost	-	37,066	(37,066)	0.0%
5901.9 · Admin-Reporting-WM Staff	946	13,890	(12,944)	6.8%
Total 5901 · Admin-WM Staff	18,386	277,476	(259,090)	6.6%
5900 · Judgment Admin Other Expenses				
5906.71 · Admin-Data Req-CBWM Staff	11,489	101,048	(89,559)	11.4%
5906.72 · Admin-Data Req-Non CBWM Staff	5,175	37,008	(31,834)	14.0%
5910 · Court Coordination/Attend-WM	899	16,970	(16,071)	5.3%
5911 · Exhibit G-WM Staff	-	6,400	(6,400)	0.0%
5921 · Production Monitoring-WM Staff	-	5,440	(5,440)	0.0%
5925 · Ag Prod & Estimation-West Yost	6,297	31,096	(24,799)	20.3%
5931 · Recharge Applications-WM Staff	683	-	683	100.0%
5935 · Admin-Mat'l Phy Inj Requests	-	39,459	(39,459)	0.0%
5941 · Reporting-WM Staff	-	2,140	(2,140)	0.0%
5945 · WM Annual Report Prep-West Yost	5,882	16,924	(11,043)	34.8%
5951 · Rules & Regs-WM Staff	-	11,260	(11,260)	0.0%
5961 · Safe Yield-WM Staff	8,945	9,510	(565)	94.1%
5965 · Support Data Collect-West Yost	-	39,659	(39,659)	0.0%
5971 · Storage Agreements-WM Staff	125	13,000	(12,875)	1.0%
5981 · Water Acct/Database-WM Staff	18,396	108,290	(89,894)	17.0%
5991 · Water Transactions-WM Staff	3,357	5,330	(1,973)	63.0%
Total 5900 · Judgment Admin Other Expenses	61,246	443,534	(382,288)	13.8%
Total 5900 · Judgment Administration	\$ 79,632	\$ 721,010	\$ (641,378)	11.0%



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730

909.484.3888 www.cbwm.org

STAFF REPORT

DATE: October 17, 2024

TO: Advisory Committee Members

SUBJECT: Annual Streamflow Monitoring Report for Water Rights Permit 21225 (Business Item II.A.)

Issue: The Annual Streamflow Monitoring Report for Fiscal Year 2023/24 was submitted to the Department of Fish and Wildlife on September 20, 2024. [Information Only]

Recommendation: None.

Financial Impact: None.

Future Consideration

Advisory Committee – October 17, 2024: Information only

Watermaster Board – October 24, 2024: Information only

BACKGROUND

Watermaster and the California Department of Fish and Wildlife agreed in 2007 that Watermaster would prepare estimates of monthly changes in discharge in each tributary of the Santa Ana River from which stormwater is diverted. Watermaster prepares an annual report describing the data and methods used to prepare those estimates and submits the annual report to the Department of Fish and Wildlife by October 1st of each year. Each Annual Report covers the 12-month period of July 1st through June 30th.

DISCUSSION

The report describes the data and methodology used to assess stormwater diversion impacts and summarizes the diversion impact analysis for each tributary system for the FY 2023/24 reporting period. As in past years, the stormwater and dry-weather discharges diverted for recharge within the Chino Basin during the reporting period were small relative to total discharge: about 15 percent of the total estimated discharge was diverted for recharge. About 87 percent of the diversions occurred between November 1st and March 30th, during storm events.

Watermaster's diversions for recharge reduce stormwater and dry-weather discharge, improve water quality in the Santa Ana River and its Chino Basin tributaries, and reduce channel erosion in these drainages, thereby offsetting some of the increase in stormwater and dry-weather discharge resulting from the urbanization of the watershed.

West Yost will discuss additional details found in the report and answer questions.

A report was given to the Pool Committees on October 10, 2024 as an informational item.

ATTACHMENTS

1. Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal Year 2023/24



23692 Birtcher Drive
Lake Forest CA 92630

949.420.3030 phone
530.756.5991 fax
westyost.com

September 19, 2024

Project No.: 941-80-24-06
SENT VIA: EMAIL

Mr. Todd Corbin
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

SUBJECT: Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal Year 2023/24

Dear Mr. Corbin:

West Yost hereby submits the Annual Streamflow Monitoring Report for Fiscal Year (FY) 2023/24. This is the 16th Annual Report prepared pursuant to Term 20 of the Chino Basin Watermaster's (Watermaster) Water Rights Permit 21225. Per the terms of the March 20, 2007 Stipulation, Watermaster and the California Department of Fish and Wildlife (DFW) agreed that Watermaster would prepare estimates of monthly changes in discharge in each tributary of the Santa Ana River from which stormwater is diverted, prepare annual reports describing the data and methods used to prepare those estimates, and submit the annual reports to the DFW by October 1st of each year.¹ Each annual report covers the 12-month period of July 1st through June 30th.

This letter report describes the data and methodology used to assess stormwater diversion impacts and summarizes the diversion impact analysis for each tributary system for the FY 2023/24 reporting period.

As in past years, the stormwater and dry-weather discharges diverted for recharge within the Chino Basin during the reporting period were small relative to total discharge: about 12 percent of the total estimated discharge was diverted for recharge. About 75 percent of the diversions occurred between November 1st and March 30th, during storm events.

Watermaster's diversions for recharge reduce stormwater and dry-weather discharge, improve water quality in the Santa Ana River and its Chino Basin tributaries, and reduce channel erosion in these drainages, thereby offsetting some of the increase in stormwater and dry-weather discharge resulting from the urbanization of the watershed.

¹ In September 2010, Watermaster requested and the DFW approved an extension of the report due date from September 1st to October 1st of each year.

DATA COLLECTION AND METHODOLOGY

There are four main tributary systems to the Santa Ana River from which Watermaster and the Inland Empire Utilities Agency (IEUA)² divert stormwater and dry-weather discharges for groundwater recharge: San Antonio/Chino Creek (hereafter referred to as Chino Creek), Cucamonga Creek, Day Creek, and Etiwanda/San Sevaine Creek (hereafter referred to as San Sevaine Creek). Figure 1 shows these creeks, their drainage areas, and other significant hydrologic features. Chino Creek and Cucamonga Creek discharge directly to the Prado Dam Reservoir, while Day Creek and San Sevaine Creek discharge to the Santa Ana River upstream of the Prado Dam Reservoir. The impact of Watermaster's stormwater and dry-weather diversions is estimated relative to the reduction in discharge on each tributary system and the reduction in discharge from each tributary system to the Prado Dam Reservoir. For Chino Creek and Cucamonga Creek, these are one and the same.

Two of the four tributary systems, Chino and Cucamonga Creeks, are equipped with U.S. Geological Survey (USGS) stream gages, and average daily discharge data are available for these stations. Daily USGS data, daily stormwater and dry-weather discharge diversion data from the IEUA, and daily discharge data collected from other known point discharges (e.g., recycled and imported water discharges) are used to estimate the discharge of Chino and Cucamonga Creeks as they enter the Prado Dam Reservoir. These data are also used to reconstruct hydrographs for the tributaries as they would have been without stormwater and dry-weather discharge diversions.

Day Creek and San Sevaine Creek are not equipped with USGS gaging stations. The hydrographs for these two systems were estimated using West Yost's Waste Load Allocation Model (WLAM). The WLAM uses recharge basin and stream channel characteristics, daily precipitation, boundary inflows, and land use characteristics to estimate stormwater runoff, and subsequently routes stormwater as well as non-tributary inflows through the Santa Ana River Watershed. The WLAM was developed for and has been used by the Santa Ana Regional Water Quality Control Board (Regional Board) to evaluate the discharge and water quality impacts of existing and planned recycled water and stormwater discharges to the surface and groundwater resources of the watershed.³ Watermaster and the City of Riverside used the WLAM to complete the only watershed-wide (system-wide) review of all appropriative water rights applications on the Santa Ana River in the 2006 State Water Resources Control Board hearing process. Watermaster most recently updated the WLAM in 2020 as part of the *2020 Safe Yield Recalculation*.⁴ The updated version of the WLAM was used for this analysis, and the land use reflects 2017 conditions.

Daily discharge tables for key hydrologic components and for the aggregate of all hydrologic components are included in the enclosed appendices.

DIVERSION IMPACT ANALYSIS

During FY 2023/24, Watermaster diverted a total of 16,056 acre-feet (af) of stormwater and dry-weather discharge to recharge basins on the Chino, Cucamonga, Day, and San Sevaine tributary systems. Table 1 summarizes, by tributary, the monthly diversions for recharge at each spreading basin, as provided by the IEUA. Impact analyses of these diversions are provided below.

² The IEUA operates the diversion and recharge facilities on behalf of Watermaster, pursuant to Watermaster's permit.

³ Wildermuth Environmental, Inc. (2009). *2008 Santa Ana River Wasteload Allocation Model Report*. Prepared for the Basin Monitoring Program Task Force. May 2009.

⁴ Wildermuth Environmental, Inc. (2020). *2020 Safe Yield Recalculation*. Prepared for the Chino Basin Watermaster. April 2020.

Chino Creek

The objective of this analysis is to illustrate the impact of Watermaster’s diversions on flows in Chino Creek. Figure 1 shows the locations of significant points of activity on the Chino Creek tributary system, including Watermaster’s points of diversion to recharge basins, USGS gaging stations, the Orange County Water District’s (OCWD) OC-59 imported water turnout,⁵ and the IEUA’s recycled water discharge points. The impact of Watermaster’s diversions of the flow in Chino Creek on discharge to the Prado Dam Reservoir is assessed at the point where recycled water from the IEUA RP-1 (Prado) recycling plant discharges to Chino Creek (see *WLAM-Estimated Points of Discharge* feature in Figure 1).⁶ Because discharge to the Chino Creek tributary system from OCWD OC-59 occurs irregularly, it is not considered a part of the natural system and is not included in the reconstructed hydrograph of Chino Creek. This methodology is consistent with the Santa Ana River Watermaster’s methodology of computing the annual volume-weighted TDS concentration of the Santa Ana River at the Prado Dam Reservoir.⁷ The total discharge of imported water to Chino Creek through OC-59 during FY 2023/24 was about 25,773 af.

The estimated average daily discharge entering the Prado Dam Reservoir from Chino Creek is calculated from the average daily discharge measured at USGS gage 11073360 (Appendix A1) less any imported water discharges from OC-59 that were not diverted into recharge basins (Appendix A2 minus Appendix A3) plus the average daily discharge from each of the IEUA’s recycled water discharge points (Carbon Canyon, RP1-Prado, and RP5) (Appendix A4). These discharges are summarized as monthly totals in rows one through four of Table 2a and are shown in detail as daily totals in Appendices A1 through A4. The resulting daily discharge time history, summarized in row five of Table 2a and shown in detail in Appendix A5, approximates actual daily discharge in Chino Creek after Watermaster’s diversions and without OC-59 discharges. Note that this estimation does not account for additional stormwater flows generated by the drainage area for the Chino Creek downstream of USGS gage 11073360. The drainage area for these unaccounted-for flows is approximately 24 square miles and represents about 26 percent of the total Chino Creek drainage area. Thus, the relative impact of Watermaster’s diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row six of Table 2a and shown in detail in Appendix A6. When added together, the daily discharge time histories from Appendices A5 and A6 yield what would have been the approximate daily discharge time history in Chino Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. This reconstructed discharge time history is summarized in row seven of Table 2a and shown in detail in Appendix A7. The percent reduction in discharge entering the Prado Dam Reservoir due to Watermaster diversions relative to the estimated discharge without diversions is summarized in row eight of Table 2a.

⁵ The Metropolitan Water District of Southern California can supply the OCWD with State Water Project water through the OC-59 connection, which discharges water to San Antonio Creek, and subsequently to Chino Creek, through the Prado Basin, and into Orange County via the Santa Ana River. The IEUA, through an agreement with the OCWD, can divert water discharged at the OC-59 connection to the recharge facilities along the Chino Creek tributary system.

⁶ Note that the IEUA RP-1 recycling plant has two discharge locations: one to Chino Creek (RP-1 Prado) and one to Cucamonga Creek (RP-1 Cucamonga).

⁷ See for example, FIFTY-THIRD ANNUAL REPORT OF THE SANTA ANA RIVER WATERMASTER FOR WATER YEAR OCTOBER 1 2022 - SEPTEMBER 30, 2023. Prepared in April 2024 by the Santa Ana River Watermaster for the ORANGE COUNTY WATER DISTRICT v. CITY OF CHINO, et al. CASE NO. 117628 - COUNTY OF ORANGE.

The total discharge that entered the Prado Dam Reservoir from Chino Creek during FY 2023/24 was estimated to be about 23,825 af. Monthly discharges ranged from a low of about 405 af (July) to a high of about 8,897 af (February). Total diversions of stormwater and dry-weather flows from Chino Creek were about 3,009 af. The estimated total discharge that would have entered the Prado Dam Reservoir without stormwater and dry-weather diversions is about 26,833 af; thus, about 11 percent of the total estimated discharge in Chino Creek was diverted for recharge in FY 2023/24. About 76 percent of the diversions on Chino Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2a shows the estimated monthly discharge to the Prado Dam Reservoir, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cubic feet per second [cfs]). This figure illustrates that the relative magnitude of the stormwater and dry-weather diversions for recharge, shown as the light blue bar (monthly diversions), is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2a also shows that most recharge results from a few short-duration stormwater events (i.e., when the yellow line [average daily discharge with diversions] is significantly below the red line [average daily discharge without diversions] during the large upward peaks in the graph where stream flow is magnified by stormwater runoff).

Cucamonga Creek

Figure 1 shows the locations of significant points of activity on the Cucamonga Creek tributary system, including Watermaster's points of diversion to recharge basins, USGS gaging stations, and the IEUA's recycled water discharge points. The impact of Watermaster's diversions on discharge to the Santa Ana River at the Prado Dam Reservoir is assessed at the point where the concrete-lined channel of Cucamonga Creek ends (see *WLAM-Estimated Points of Discharge* feature in Figure 1). The estimated average daily discharge entering the Prado Dam Reservoir from Cucamonga Creek is approximated as the average daily discharge measured at USGS gage 11073495. The estimated discharge time history is summarized as a monthly total in row one of Table 2b and is shown in detail as daily values in Appendix B1. Note that this estimation does not account for additional stormwater flows generated by the drainage area for the Cucamonga Creek downstream of USGS gage 11073495. The drainage area for these unaccounted-for flows is approximately 13 square miles and represents about 15 percent of the total Cucamonga Creek drainage area. Thus, the relative impact of Watermaster's diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2b and shown in detail in Appendix B2. When added together, the daily discharge time histories from Appendices B1 and B2 yield what would have been the approximate daily discharge time history in Cucamonga Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. This reconstructed discharge time history is summarized in row three of Table 2b and shown in detail in Appendix B3. The percent reduction in discharge entering the Prado Dam Reservoir relative to the estimated discharge without Watermaster diversions is summarized in row four of Table 2b.

The total discharge that entered the Prado Dam Reservoir from Cucamonga Creek during FY 2023/24 was estimated to be about 47,798 af. Monthly discharges ranged from a low of about 440 af (July) to a high of about 20,899 af (February). Total diversions from Cucamonga Creek were about 5,165 af. The estimated total discharge that would have entered Prado Dam Reservoir without stormwater and dry-weather diversions is about 52,964 af; thus, about 10 percent of the total discharge in Cucamonga Creek was diverted for recharge in FY 2023/24. 67 percent of the diversions on Cucamonga Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2b shows total monthly discharge to the Prado Dam Reservoir, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). This figure illustrates that the relative magnitude of the stormwater diversions for recharge is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2b also shows that most recharge results from a few short-duration stormwater events.

Day Creek

Figure 1 shows the locations of significant points of activity on the Day Creek tributary system, including Watermaster's points of diversion to recharge basins and the confluence of Day Creek and the Santa Ana River (see the *WLAM-Estimated Points of Discharge* feature in Figure 1). Day Creek's average daily discharge to the Santa Ana River was estimated using the WLAM. The estimated daily discharge represents discharge to the Santa Ana River without stormwater diversions for recharge. The discharge time history estimated by the WLAM is summarized as monthly totals in row one of Table 2c and is shown in detail as daily values in Appendix C1. Because the WLAM does not simulate dry-weather flows, the estimated daily discharge underestimates actual flows on Day Creek and, thus, overestimates the impact of diversions on discharge to the Santa Ana River. To correct for this underestimation, dry-weather diversions are added together with the WLAM-estimated discharge to create a reconstructed hydrograph of Day Creek.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2c and shown in detail in Appendix C2. The "diversion" values reported by the IEUA represent the recharge of stormwater and dry weather flow in basins. There are instances when the reported diversions are in excess of total WLAM estimated stormwater flow; in such cases, the excess diversions are assumed to be dry-weather flows. In other instances, when the volume of stormwater diverted for recharge is large, the recharge may continue to occur after storm flows in the creek have stopped (i.e., when the WLAM estimated flow is zero). Periods of recharge that are attributed to stormwater are highlighted grey in Appendices C1, C2, and C3. During storm periods, dry-weather flows are not estimated and are assumed to be zero. All diversions that occur during non-storm periods are considered dry-weather flows. The time history of dry-weather flow diversions is summarized in row three of Table 2c and shown in detail in Appendix C3. None of the diversions that occurred in FY 2023/24 were estimated to be dry-weather flows. Note that dry-weather flows that occur downstream of the recharge basins are not estimated. Thus, the relative impact of Watermaster's diversions is overstated.

When added together, the stormwater discharge estimated by the WLAM (row one of Table 2c), and the estimated dry-weather diversions (row three of Table 2c) yield the total estimated discharge from Day Creek to the Santa Ana River. This total estimated discharge without diversions is summarized in row four of Table 2c. Subtracting the diversions (row two of Table 2c) from the total estimated discharges (row four of Table 2c) yields an estimated monthly discharge from Day Creek to the Santa Ana River after Watermaster diversions. This calculation is done monthly. Within each storm period (highlighted in grey in Appendices C1, C2, and C3), total diversions are subtracted from the total stormwater flows generated during the storm, including diversions that were recharged on dates after the actual stormwater flows were generated. The estimated monthly discharge is summarized in row five of Table 2c.

The percent reduction in discharge entering the Santa Ana River from Day Creek relative to the estimated discharge without Watermaster diversions is summarized in row six of Table 2c. Table 2c also summarizes the discharge measured at USGS gage 11066460 (row seven), the closest gage on the Santa Ana River upstream of its confluence with Day Creek (see Figure 1). The percent reduction in discharge to the Prado Dam Reservoir from Day Creek, relative to discharge in the Santa Ana River at USGS gage 11066460, is summarized in row eight of Table 2c.

Total discharge to the Santa Ana River from Day Creek during FY 2023/24 was estimated to be about 14,305 af. Monthly discharges range from a low of zero af (primarily summer months) to a high of about 9,629 af (February). Total diversions from Day Creek were about 694 af, of which none were dry-weather flows. The estimated discharge that would have entered the Santa Ana River without stormwater and dry-weather diversions is 15,000 af; thus, about 5 percent of the total discharge in Day Creek was diverted for recharge in FY 2023/24. The percent reduction in discharge entering the Prado Dam Reservoir was about 0.7 percent. 77 percent of the diversions on Day Creek occurred between November and March and were coincident with the larger storm events of the year.

Figure 2c shows total monthly discharge, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). Stormwater runoff accounted for 99 percent of Watermaster's diversions, which occurred during short-duration events.

San Sevaine Creek

Figure 1 shows the locations of significant points of activity on the San Sevaine Creek tributary system, including Watermaster's points of diversion to recharge basins and the confluence of San Sevaine Creek and the Santa Ana River (see *WLAM-Estimated Points of Discharge* feature on Figure 1). San Sevaine Creek's average daily discharge to the Santa Ana River was also estimated using the WLAM. The estimated daily discharge represents discharge to the Santa Ana River without stormwater diversions for recharge. The discharge time history estimated by the WLAM is summarized as monthly totals in row 1 of Table 2d and is shown in detail as daily values in Appendix D1. Because the WLAM does not simulate dry-weather flows, the estimated daily discharge underestimates actual flows on San Sevaine Creek and, thus, overestimates the impact of diversions on discharge to the Santa Ana River. To correct for this underestimation, dry-weather diversions are added together with the WLAM estimated discharge to create a reconstructed hydrograph of San Sevaine Creek.

The time history of stormwater and dry-weather discharge diversions is summarized in row two of Table 2d and shown in detail in Appendix D2. The "diversion" values reported by the IEUA represent the recharge of stormwater and dry weather flow in basins. There are instances when the reported diversions are in excess of total WLAM estimated stormwater flow; in such cases, the excess diversions are assumed to be dry-weather flows. In other instances, when the volume of stormwater diverted for recharge is large, the recharge may continue to occur after storm flows in the creek have stopped (i.e., when the WLAM estimated flow is zero). Periods of recharge that are attributed to stormwater are highlighted grey in Appendices D1, D2, and D3. During storm periods, dry-weather flows are not estimated and are assumed to be 0. All diversions that occur during non-storm periods are considered dry-weather flows. The time history of dry-weather flow diversions is summarized in row 3 of Table 2d and shown in detail in Appendix D3. Note that dry-weather flows that occur downstream of the recharge basins are not estimated. Thus, the relative impact of Watermaster's diversions is overstated.

When added together, the stormwater discharge estimated by the WLAM (row one of Table 2d) and the estimated dry-weather diversions (row three of Table 2d) yield the total estimated discharge from San Sevaine Creek to the Santa Ana River. This total discharge is summarized in row four of Table 2d. Subtracting the diversions (row two of Table 2d) from the total estimated discharges (row four of Table 2d) yields an estimated monthly discharge from San Sevaine Creek to the Santa Ana River after Watermaster diversions. This calculation is done monthly. Within each storm period (highlighted in grey in Appendices D1, D2, and D3), total diversions are subtracted from the total stormwater flows generated during the storm, including diversions that were recharged on dates after actual stormwater flows were generated. In some cases, a diversion taken at the beginning of one month was subtracted from stormwater flows generated in a previous month. The estimated monthly discharge is summarized in row five of Table 2d.

The percent reduction in discharge entering the Santa Ana River from San Sevaine Creek relative to the estimated discharge without Watermaster diversions is summarized in row six of Table 2d. Table 2d also summarizes the discharge measured at USGS gage 11066460 (row seven), the closest gage on the Santa Ana River upstream of its confluence with San Sevaine Creek (see Figure 1). The percent reduction in discharge to the Prado Dam Reservoir from San Sevaine Creek, relative to discharge in the Santa Ana River at USGS gage 11066460, is summarized in row eight of Table 2d.

Total discharge to the Santa Ana River from San Sevaine Creek during FY 2023/24 was estimated to be about 24,144 af. Monthly discharges ranged from a low of zero af (June and July) to a high of about 18,079 af (February). Total diversions from San Sevaine Creek were about 7,188 af, of which about 609 af were dry-weather flows. The estimated discharge that would have entered the Santa Ana River without stormwater and dry-weather diversions is 31,330; thus, about 23 percent of the total discharge in San Sevaine Creek was diverted for recharge in FY 2023/24. The percent reduction in discharge entering the Prado Dam Reservoir was about 7 percent. On San Sevaine Creek, 78 percent of the diversions occurred between November and March and were coincident with the larger storm events of the year.

Figure 2d shows total monthly discharge, with and without diversions, as a stacked bar chart (af) and average daily discharge, with and without diversions, as an xy plot (cfs). Stormwater runoff accounted for about 92 percent of Watermaster's diversions, which occurred during short-duration events, while the remainder of the diversions were dry-weather flows.

Should you have any questions regarding the information contained herein, please contact Amanda Gateley (949)461-1138 or agateley@westyost.com) or Carolina Sanchez (949)600-7504 or csanchez@westyost.com).

Sincerely,
WEST YOST



Amanda Gateley
Geologist, GIT
GIT #1750



Carolina Sanchez
Engineer, PE
RCE #85598

Table 1. Total Monthly Stormwater and Dry-Weather Recharge Fiscal Year 2023/24, (af)

Tributary System	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
Chino Creek													
College Heights	0	3	0	0	0	0	1	34	29	38	0	0	105
Upland	0	93	1	0	0	29	40	364	80	16	11	0	634
Montclair	0	280	113	7	35	68	132	733	203	43	22	0	1,636
Brooks Street	1	58	5	2	2	33	79	272	141	27	15	0	633
Tributary Total	1	434	119	9	37	131	252	1,402	452	124	48	0	3,009
Cucamonga Creek													
7 th and 8 th Street	136	283	66	37	72	114	159	226	174	74	40	2	1,383
Ely	1	437	62	2	64	112	259	527	457	78	19	3	2,021
Turner 1 and 2	8	51	34	24	41	93	83	160	228	68	3	4	797
Turner 3, 4 and 5	12	34	47	39	77	57	57	199	44	23	8	9	607
Grove	1	67	11	1	10	25	56	103	62	17	4	2	358
Tributary Total	158	873	220	102	265	401	613	1,215	964	260	74	20	5,165
Day Creek													
Lower Day	2	50	16	10	14	21	38	364	97	69	13	1	694
Tributary Total	2	50	16	10	14	21	38	364	97	69	13	1	694
San Sevaine Creek													
San Sevaine	0	233	28	21	41	152	141	787	509	98	61	9	2,080
Jurupa	13	7	1	0	6	204	120	223	330	54	2	0	958
Hickory	0	45	69	22	30	34	48	128	129	8	18	0	531
Banana	0	60	4	0	21	40	42	73	72	28	0	0	340
RP-3	0	56	0	0	0	16	130	383	226	46	47	12	917
Declez	3	126	13	13	59	136	149	178	191	54	5	2	929
Etiwanda Debris Basin	0	47	0	0	0	0	0	199	191	150	44	1	632
Victoria	1	119	11	12	18	47	92	213	224	46	17	1	801
Tributary Total	16	694	126	68	175	629	722	2,183	1,872	485	193	25	7,188
Tributary System Total	177	2,051	481	190	491	1,182	1,625	5,164	3,385	938	328	46	16,056

Note: Recharge volumes represent diversions of both stormwater and dry-weather discharge; recharge volumes are rounded to the nearest whole number.

Table 2a. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Chino Creek for FY 2023/24, (af)

Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge in Chino Creek at USGS Gage 11073360 ^(a)	65	1,515	87	57	214	408	747	7,172	1,386	275	152	47	12,125
(2)	Discharge to San Antonio Creek from OCWD OC-59	3,585	3,661	4,649	3,415	3,072	2,471	0	0	0	186	2,317	2,417	25,773
(3)	Diversions of OC-59 Imported Water to Recharge Basins	3,585	3,661	4,649	3,415	3,072	2,471	0	0	0	186	2,317	2,417	25,773
(4)	Recycled Water Discharge from IEUA's CCWRF, RP-5, and RP-1 (Prado)	340	492	521	534	798	1,220	1,506	1,725	1,554	1,300	1,044	666	11,700
(5) =(1)-[(2)-(3)]+(4)	Estimated Discharge Entering the Prado Dam Reservoir	405	2,007	608	591	1,012	1,628	2,253	8,897	2,940	1,575	1,196	713	23,825
(6)	Stormwater and Dry-Weather Discharge Diversions	1	434	119	9	37	131	252	1,402	452	124	48	0	3,009
(7) =(5)+(6)	Estimated Discharge That Would Have Entered the Prado Dam Reservoir <i>without</i> Stormwater and Dry-Weather Diversions	406	2,441	727	600	1,049	1,760	2,505	10,299	3,391	1,699	1,244	713	26,833
(8) =(6)/(7)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge <i>without</i> Diversions	0%	18%	16%	2%	4%	7%	10%	14%	13%	7%	4%	0%	11%

^(a)For July 1, 2023 to December 2, 2023, data have been approved by the USGS; data after December 2, 2023 are provisional.

Table 2b. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Cucamonga Creek for FY 2023/24, (af)

Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge Entering the Prado Dam Reservoir after Stormwater and Dry-Weather Diversions (USGS Gage 11073495) ^(a)	440	3,458	530	798	1,469	2,990	2,705	20,899	9,605	2,047	1,501	1,356	47,798
(2)	Stormwater and Dry-Weather Discharge Diversions	158	873	220	102	265	401	613	1,215	964	260	74	20	5,165
(3) =(1)+(2)	Estimated Discharge That Would Have Entered the Prado Dam Reservoir <u>without</u> Stormwater and Dry-Weather Diversions	597	4,331	750	900	1,734	3,392	3,318	22,114	10,569	2,307	1,576	1,376	52,964
(4) =(2)/(3)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge <u>without</u> Diversions	26.5%	20.2%	29.3%	11.3%	15.3%	11.8%	18.5%	5.5%	9.1%	11.3%	4.7%	1.5%	10%

^(a)For July 1, 2023 to December 1, 2023, data have been approved by the USGS; data after December 1, 2023 are provisional.

Table 2c. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from Day Creek for FY 2023/24, (af)

Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge Entering the Santa Ana River <u>without</u> Stormwater and Dry-Weather Diversions <u>or</u> Dry-Weather Flows ^(a)	0	1,975	25	10	75	254	880	9,993	1,425	334	25	0	14,996
(2)	Stormwater and Dry-Weather Discharge Diversions ^(b)	2	50	16	10	14	21	38	364	97	69	13	1	694
(3)	Diversions Attributable to Dry-Weather Flows ^(c)	2	1	0	0	0	0	0	0	0	0	0	1	4
(4) =(1)+(3)	Total Discharge Entering the Santa Ana River <u>without</u> Stormwater and Dry-Weather Diversions ^(d)	2	1,976	25	10	75	254	880	9,993	1,425	334	25	1	15,000
(5) =(4)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	0	1,926	9	0	61	233	842	9,629	1,328	265	12	0	14,307
(6) =(2)/(4)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge <u>without</u> Diversions	76%	3%	63%	104%	18%	8%	4%	4%	7%	21%	50%	84%	5%
(7)	Discharge in the Santa Ana River at USGS Gage 11066460	2,729	10,178	3,694	3,199	3,505	3,890	8,162	33,287	9,829	10,727	4,546	2,381	96,127
(8) =(2)/(7)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460 ^(e)	0.1%	0.5%	0.4%	0.3%	0.4%	0.5%	0.5%	1.1%	1.0%	0.6%	0.3%	0.0%	0.7%

^(a) Estimated using the WLAM.

^(b) Calculated on a monthly basis.

^(c) Calculated on a monthly basis. Note that the WLAM does not simulate dry-weather flows on the Day Creek tributary system. Thus, there are dates on which the measured diversions from Day Creek are greater than the WLAM's estimated discharge to the Santa Ana River without diversions. For these dates, the difference between the measured diversions and estimated discharge can be attributed to dry-weather discharge. Dry-weather diversions that occur while stormwater is being recharged (highlighted in grey in Appendices C1-C3) or downstream of the recharge basins are not included in these calculations.

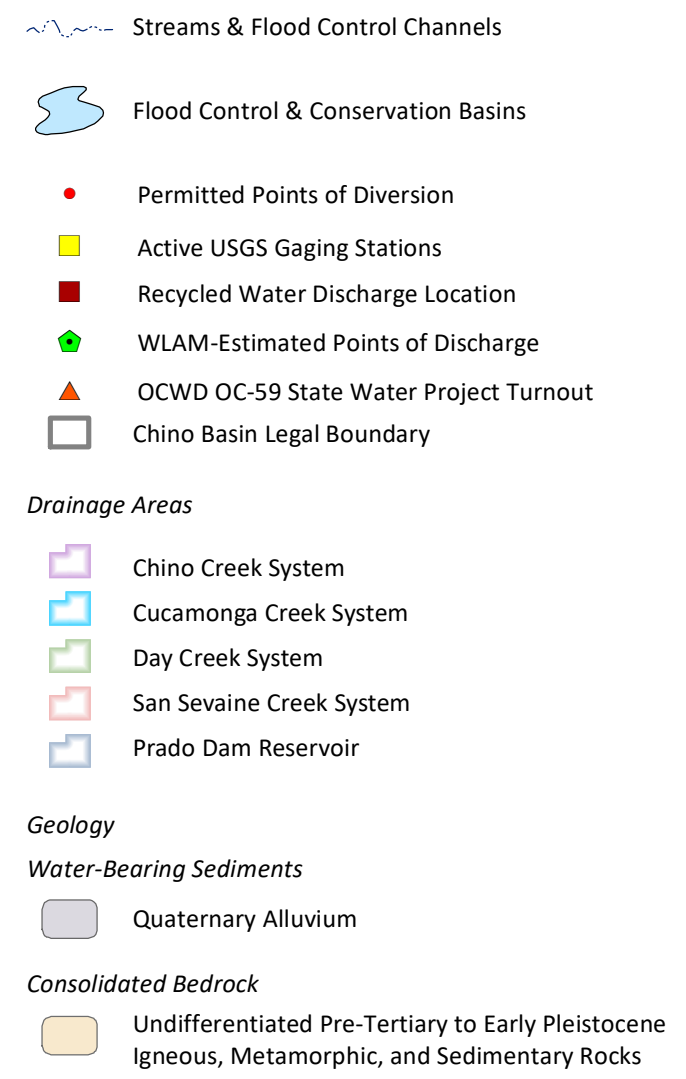
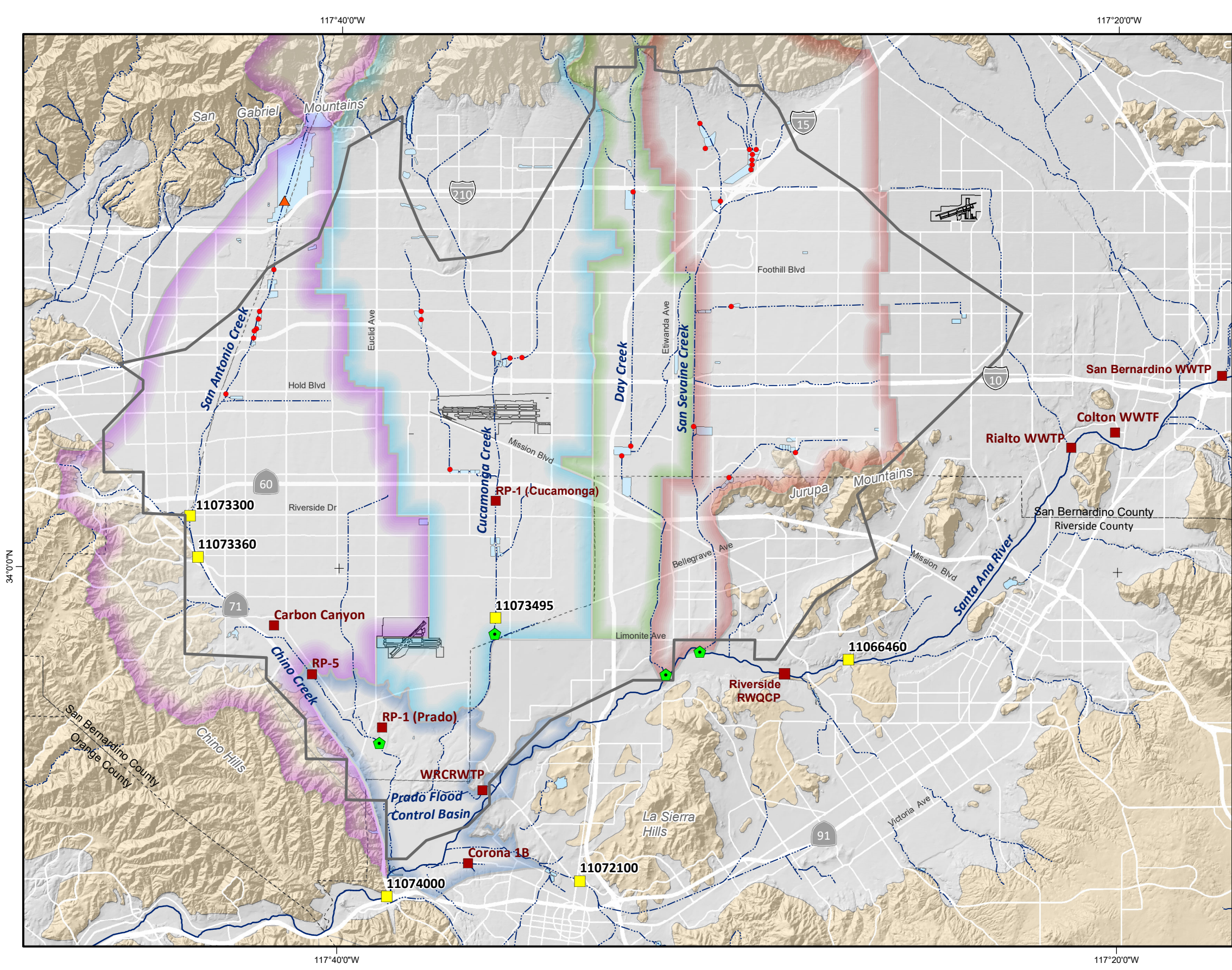
^(d) Calculated on a monthly basis.

^(e) For July 1, 2023 to June 20, 2024, data have been approved by the USGS; data after June 20, 2024 are provisional.

Table 2d. Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from San Sevaine Creek for FY 2023/24, (af)

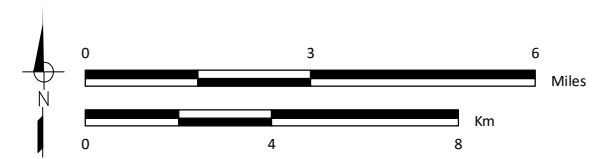
Row	Discharge Components	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total
(1)	Discharge Entering the Santa Ana River <u>without</u> Stormwater and Dry-Weather Diversions <u>or</u> Dry-Weather Flows ^(a)	0	4,105	117	55	300	813	1,450	20,140	3,091	487	163	0	30,721
(2)	Stormwater and Dry-Weather Discharge Diversions ^(b)	16	694	126	68	175	629	722	2,183	1,872	485	193	25	7,188
(3)	Diversions Attributable to Dry-Weather Flows ^(c)	16	9	25	18	9	3	1	121	109	187	86	25	609
(4) =(1)+(3)	Total Discharge Entering the Santa Ana River <u>without</u> Stormwater and Dry-Weather Diversions ^(d)	16	4,114	142	73	309	816	1,451	20,261	3,200	674	249	25	31,330
(5) =(4)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	0	3,420	16	5	134	187	729	18,078	1,328	189	56	0	24,142
(6) =(2)/(4)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge <u>without</u> Diversions	100%	17%	89%	93%	57%	77%	50%	11%	59%	72%	78%	100%	23%
(7)	Discharge in the Santa Ana River at USGS Gage 11066460	2,729	10,178	3,694	3,199	3,505	3,890	8,162	33,287	9,829	10,727	4,546	2,381	96,127
(8) =(2)/(7)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460 ^(e)	0.6%	6.8%	3.4%	2.1%	5.0%	16.2%	8.8%	6.6%	19.0%	4.5%	4.2%	1.1%	7%

^(a) Estimated using the WLAM.
^(b) Calculated on a monthly basis.
^(c) Calculated on a monthly basis. Note that the WLAM does not simulate dry-weather flows on the San Sevaine Creek tributary system. Thus, there are dates on which the measured diversions from San Sevaine Creek are greater than the WLAM's estimated discharge to the Santa Ana River without diversions. For these dates, the difference between the measured diversions and estimated discharge can be attributed to dry-weather discharge. Dry-weather diversions that occur while stormwater is being recharged (highlighted in grey in Appendices D1-D3) or downstream of the recharge basins are not included in these calculations.
^(d) Calculated on a monthly basis.
^(e) For July 1, 2023 to June 20, 2024, data have been approved by the USGS; data after June 20, 2024 are provisional.



Prepared by:
WEST YOST
 Water. Engineered.

Author: AG
 Date: 8/29/2024
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 General Eng\GIS\MXD\Permit 21225 Annual Report



Prepared for:
Chino Basin Watermaster
 Water Rights Compliance Reporting
 FY 2023/24

Stormwater Recharge Points of Diversion
 Water Rights Permit 21225

Figure 1

Figure 2a
Estimated Discharge from Chino Creek to Prado Dam Reservoir
With and without Stormwater and Dry-Weather Discharge Diversions

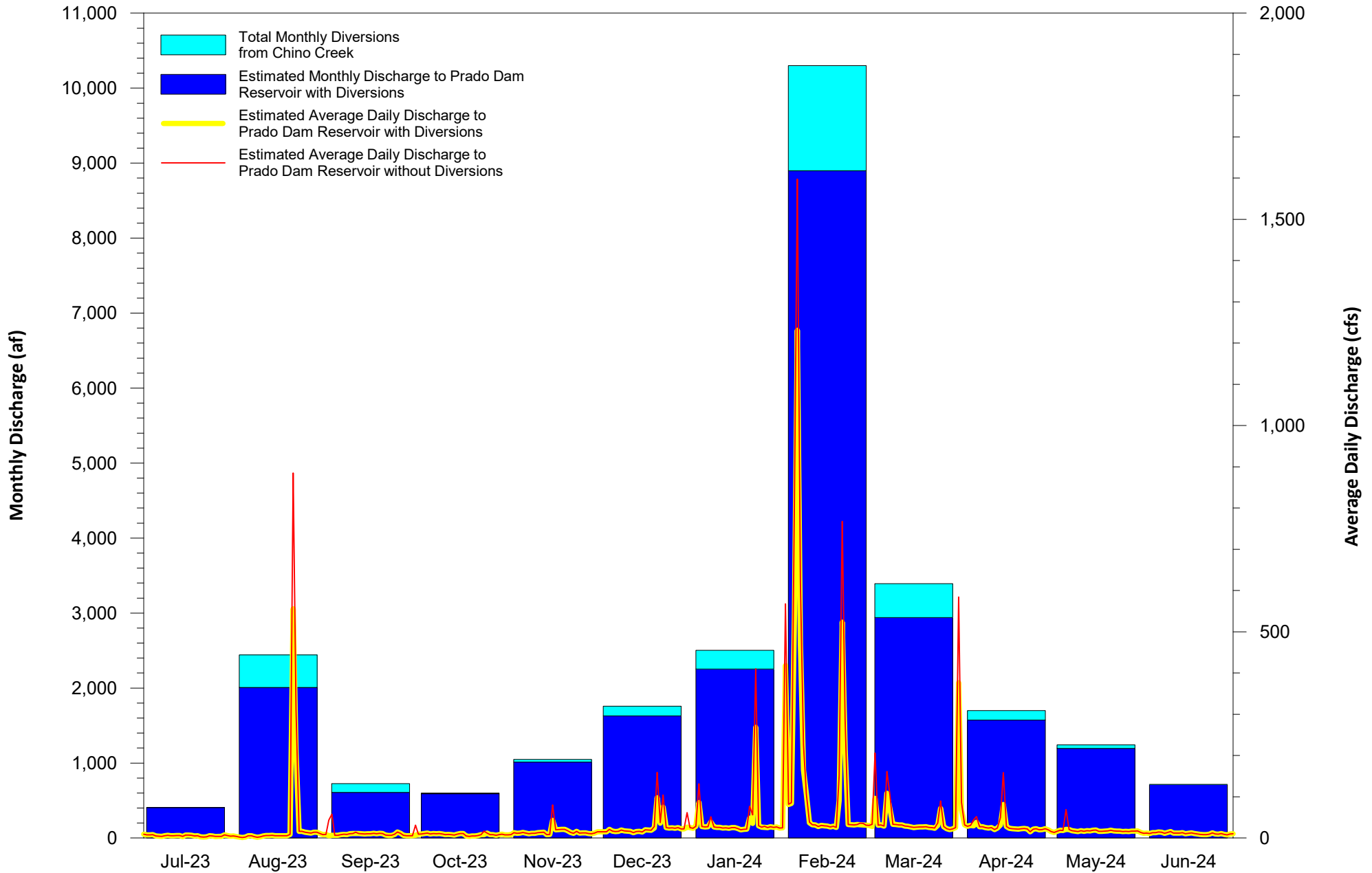


Figure 2b
Estimated Discharge from Cucamonga Creek to Prado Dam Reservoir
With and without Stormwater and Dry-Weather Discharge Diversions

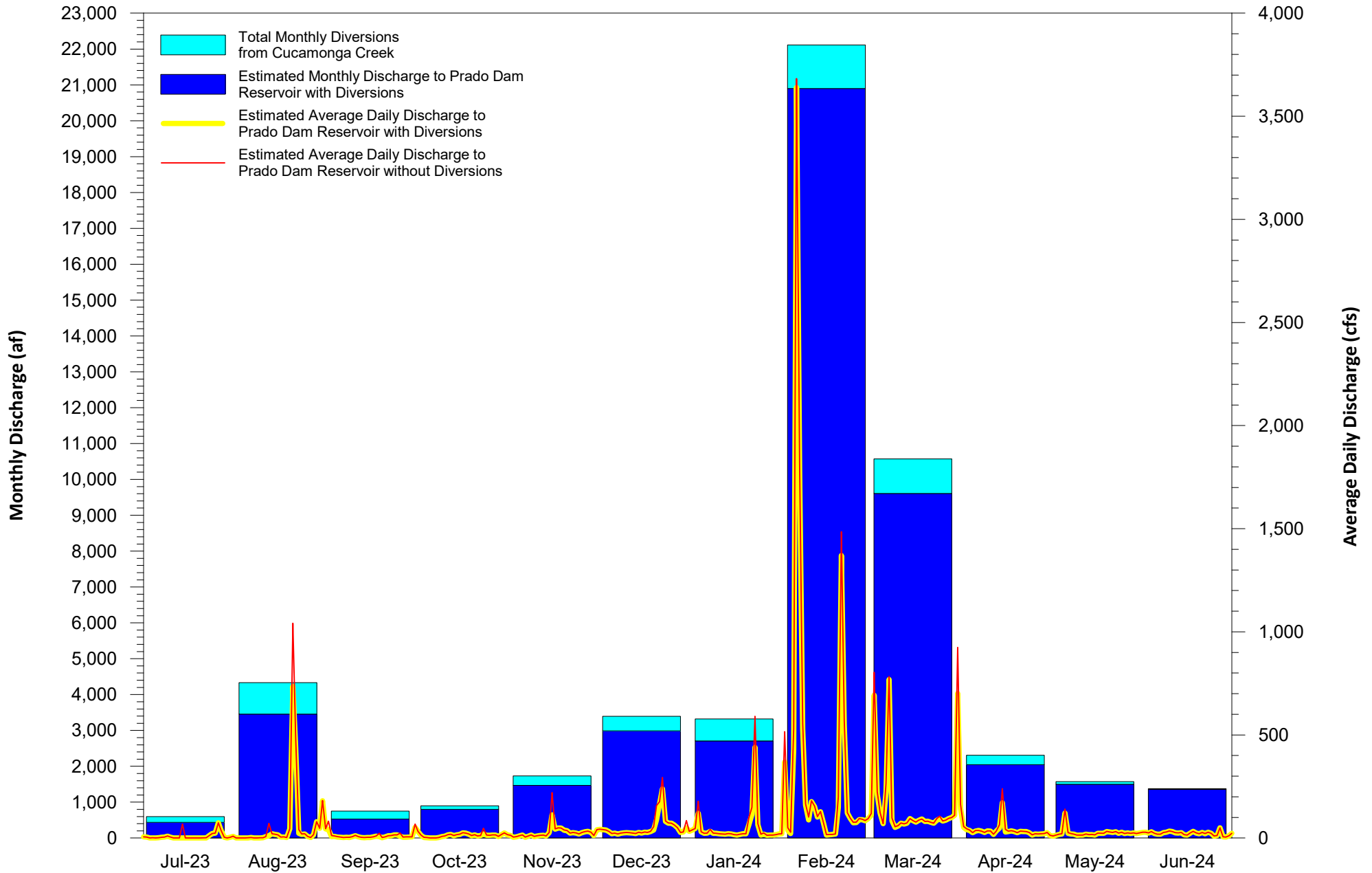


Figure 2c
Estimated Discharge from Day Creek to the Santa Ana River
With and without Stormwater and Dry-Weather Discharge Diversions

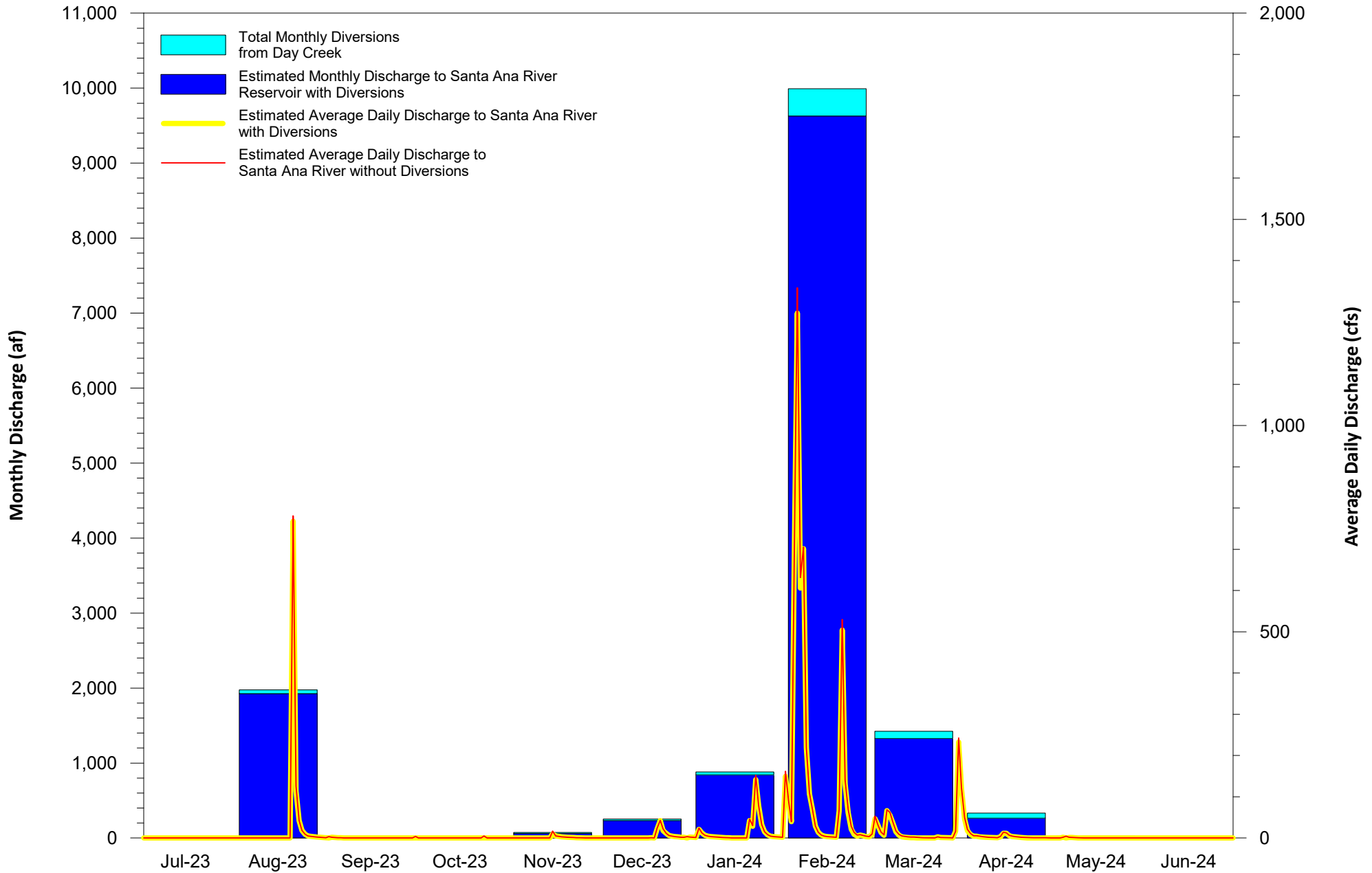
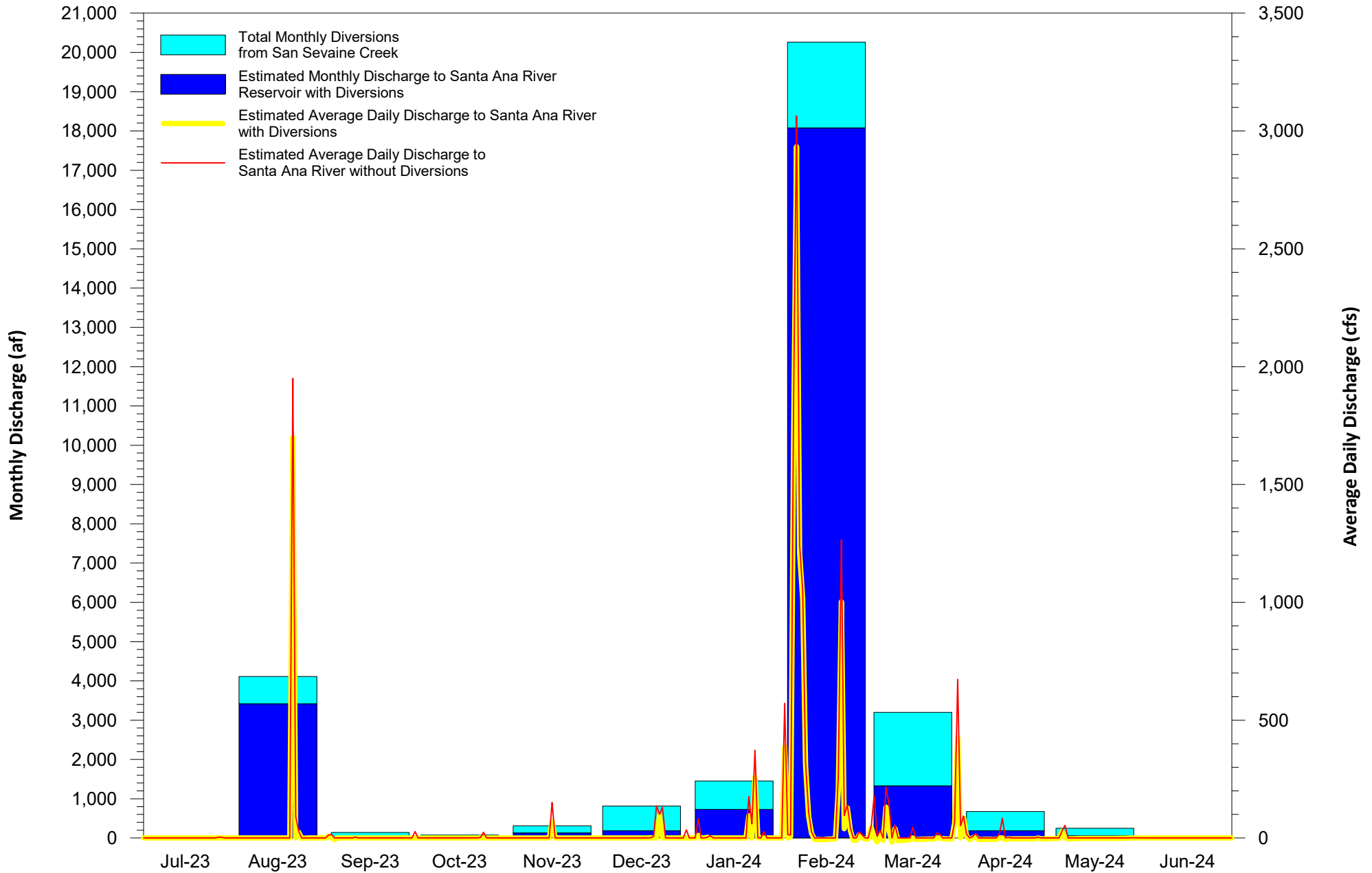


Figure 2d
Estimated Discharge from San Sevaine Creek to the Santa Ana River
With and without Stormwater and Dry-Weather Discharge Diversions



Author: AG
 Date: 9/3/2024

Appendix A1
Average Daily Discharge at USGS Gage 11073360 on Chino Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.94	0.92	3.51	1.72	0.61	0.86	1.80	391.00	3.01	4.46	1.24	1.11
2	0.99	0.87	8.19	0.89	0.64	0.78	1.97	55.10	67.10	4.38	1.10	1.30
3	0.93	0.84	1.75	0.84	0.73	0.74	58.20	58.80	3.53	4.49	1.07	1.05
4	0.92	0.85	1.19	1.01	0.68	0.77	1.60	515.00	3.06	3.45	1.04	1.03
5	0.88	0.90	1.20	1.26	0.52	0.74	1.29	1190.00	2.82	12.50	27.50	0.89
6	0.97	0.89	1.08	1.33	0.56	0.74	1.72	419.00	81.10	2.82	1.72	0.85
7	0.91	0.96	1.08	1.15	0.68	0.74	11.10	123.00	41.80	2.66	1.39	0.90
8	0.88	1.06	1.02	1.28	0.66	0.75	1.00	74.70	3.78	2.66	1.64	0.84
9	0.89	1.06	0.99	1.36	0.63	0.73	0.69	6.24	3.20	2.63	3.10	0.87
10	0.91	1.26	2.45	0.96	0.69	0.61	0.75	3.60	2.89	2.66	2.61	0.79
11	0.93	1.15	1.74	0.75	0.62	0.65	0.83	3.18	2.88	2.66	2.73	1.48
12	0.83	0.99	1.31	0.81	0.60	0.69	0.72	2.71	2.98	2.34	3.85	0.60
13	0.85	1.14	1.28	0.78	0.69	1.07	0.72	2.39	2.87	7.84	3.25	0.67
14	0.91	1.01	1.60	0.74	0.74	0.88	0.77	2.37	2.62	56.50	3.29	0.69
15	1.69	1.10	1.09	0.62	81.70	1.07	0.76	2.23	2.76	2.97	1.78	0.64
16	1.70	0.99	1.10	0.88	2.30	0.63	0.73	2.23	2.66	1.78	1.45	0.87
17	0.77	0.97	1.03	0.68	1.39	0.94	0.80	2.12	2.50	1.87	1.30	0.96
18	0.76	1.08	1.00	0.66	4.02	0.76	0.75	1.97	2.56	1.65	1.26	0.70
19	0.80	1.47	0.97	1.10	1.06	2.46	0.74	63.50	2.57	1.90	1.23	0.69
20	0.78	542.00	1.17	0.89	1.00	89.00	23.80	484.00	2.53	1.47	1.26	0.70
21	0.72	188.00	0.89	0.69	0.85	9.45	10.60	181.00	2.35	1.59	1.22	0.75
22	1.08	2.07	0.88	0.93	0.75	51.30	241.00	5.03	2.41	2.25	1.20	0.69
23	1.42	1.55	0.86	1.88	0.71	1.06	3.04	3.80	6.97	1.33	1.07	0.68
24	0.89	1.36	0.92	0.66	0.76	1.25	1.63	3.38	47.10	1.40	1.12	0.68
25	0.85	1.33	0.85	0.99	0.71	1.14	1.64	3.16	2.59	1.38	1.09	0.78
26	1.74	1.27	0.94	0.65	0.68	1.15	1.25	4.78	2.24	1.40	1.23	0.52
27	1.29	1.28	0.80	0.94	0.68	1.05	1.56	5.61	2.39	1.38	1.28	0.51
28	0.90	1.14	0.85	0.62	0.66	0.91	1.64	2.95	2.06	1.22	1.22	0.60
29	0.95	1.58	0.96	0.73	0.77	0.83	2.07	2.91	2.12	1.63	1.15	0.54
30	1.80	1.37	1.35	0.55	0.82	31.00	0.83	--	348.00	1.34	1.12	0.50
31	1.92	1.14	--	0.57	--	1.04	0.69	--	41.10	--	1.20	--
Minimum	0.7	0.8	0.8	0.6	0.5	0.6	0.7	2.0	2.1	1.2	1.0	0.5
Maximum	1.9	542.0	8.2	1.9	81.7	89.0	241.0	1,190.0	348.0	56.5	27.5	1.5
Average	1.0	25.4	1.5	0.9	3.6	6.8	12.5	124.7	21.9	4.6	2.5	0.8
Total Volume (af)	65.1	1,514.6	87.4	57.4	214.0	408.2	747.2	7,171.8	1,385.6	274.9	152.2	47.4

Note: For July 1, 2023 to December 2, 2023, data have been approved by the USGS; data after December 2, 2023 are provisional.

Appendix A2

Average Daily Discharge at OC-59 on San Antonio Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	65.3	54.9	78.3	66.9	51.8	49.0	0.0	0.0	0.0	0.0	58.2	36.3
2	64.9	58.5	77.3	64.7	51.2	48.9	0.0	0.0	0.0	0.0	58.4	36.5
3	65.2	54.6	78.3	61.9	52.1	49.3	0.0	0.0	0.0	0.0	58.9	36.5
4	64.5	55.2	78.8	67.0	52.5	49.0	0.0	0.0	0.0	0.0	51.1	36.5
5	65.6	55.4	78.1	63.8	51.8	51.5	0.0	0.0	0.0	0.0	37.2	36.5
6	67.3	56.5	78.3	61.7	50.2	57.7	0.0	0.0	0.0	0.0	35.5	36.3
7	66.9	55.5	79.9	61.3	48.0	59.9	0.0	0.0	0.0	0.0	34.7	36.2
8	64.0	62.5	81.2	60.1	47.0	62.0	0.0	0.0	0.0	0.0	34.8	36.2
9	64.4	67.7	81.3	57.8	51.4	62.5	0.1	0.0	0.0	0.0	34.6	36.2
10	64.3	68.4	81.3	56.1	51.1	62.2	0.0	0.0	0.0	0.0	34.6	36.2
11	68.2	70.0	80.9	55.1	54.3	62.3	0.0	0.0	0.0	0.0	34.8	38.3
12	74.2	69.4	80.2	54.6	52.2	61.9	0.0	0.0	0.0	0.0	34.8	39.9
13	73.9	68.4	80.1	55.6	53.5	62.0	0.0	0.0	0.0	0.0	34.9	39.6
14	73.5	67.5	78.6	55.5	53.4	60.7	0.0	0.0	0.0	0.0	34.8	39.6
15	73.9	71.1	77.9	55.9	52.7	59.0	0.0	0.0	0.0	0.0	34.2	39.6
16	73.0	72.7	81.8	54.3	52.5	59.1	0.0	0.0	0.0	0.0	33.8	39.5
17	73.6	71.5	80.5	50.7	52.5	58.8	0.0	0.0	0.0	0.0	33.7	39.6
18	73.8	40.2	82.0	51.5	52.5	42.0	0.0	0.0	0.0	0.0	33.8	41.0
19	54.9	0.0	80.1	52.4	52.2	30.8	0.0	0.0	0.0	0.0	33.8	43.6
20	33.6	0.0	78.6	51.9	52.3	15.2	0.0	0.0	0.0	0.0	33.8	43.0
21	33.2	0.0	78.0	51.9	52.2	0.0	0.0	0.0	0.0	0.0	34.0	42.6
22	33.6	30.5	78.0	49.3	52.0	0.0	0.0	0.0	0.0	0.0	33.6	42.7
23	35.2	77.9	78.1	50.1	51.7	0.0	0.0	0.0	0.0	0.0	33.3	42.4
24	35.1	76.8	77.3	50.6	52.1	0.0	0.0	0.0	0.0	0.0	33.1	42.3
25	36.4	75.9	78.3	51.1	52.0	0.0	0.0	0.0	0.0	0.0	33.4	45.5
26	41.9	77.0	81.0	51.2	51.9	0.0	0.0	0.0	0.0	0.0	36.9	46.8
27	52.6	78.1	81.2	51.9	51.7	0.0	0.0	0.0	0.0	0.0	37.2	48.0
28	53.0	77.5	70.7	52.1	51.6	34.5	0.0	0.0	0.0	0.0	36.8	48.3
29	53.4	78.2	63.1	52.5	49.5	49.8	0.0	0.0	0.0	34.0	36.4	46.4
30	54.8	77.5	64.8	50.2	49.0	49.7	0.0	-	0.0	59.6	36.4	46.6
31	53.5	76.6	-	51.9	-	47.9	0.0	-	0.0	-	36.4	-
Minimum	33.2	0.0	63.1	49.3	47.0	0.0	0.0	0.0	0.0	0.0	33.1	36.2
Maximum	74.2	78.2	82.0	67.0	54.3	62.5	0.1	0.0	0.0	59.6	58.9	48.3
Average	58.3	59.5	78.1	55.5	51.6	40.2	0.0	0.0	0.0	3.1	37.7	40.6
Total Volume (af)	3,585.2	3,661.3	4,649.2	3,415.0	3,072.1	2,470.9	0.1	0.0	0.0	185.8	2,316.6	2,417.3

Appendix A3

Daily Diversions of OC-59 Water to Recharge Basins from the Chino Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	65.3	54.9	78.3	66.9	51.8	49.0	0.0	0.0	0.0	0.0	58.2	36.3
2	64.9	58.5	77.3	64.7	51.2	48.9	0.0	0.0	0.0	0.0	58.4	36.5
3	65.2	54.6	78.3	61.9	52.1	49.3	0.0	0.0	0.0	0.0	58.9	36.5
4	64.5	55.2	78.8	67.0	52.5	49.0	0.0	0.0	0.0	0.0	51.1	36.5
5	65.6	55.4	78.1	63.8	51.7	51.5	0.0	0.0	0.0	0.0	37.2	36.5
6	67.3	56.5	78.3	61.7	50.2	57.7	0.0	0.0	0.0	0.0	35.5	36.3
7	66.9	55.5	79.9	61.3	48.0	59.9	0.0	0.0	0.0	0.0	34.7	36.2
8	64.0	62.5	81.2	60.1	47.0	62.0	0.0	0.0	0.0	0.0	34.8	36.2
9	64.4	67.7	81.3	57.8	51.4	62.5	0.0	0.0	0.0	0.0	34.6	36.2
10	64.3	68.4	81.3	56.1	51.1	62.2	0.0	0.0	0.0	0.0	34.6	36.2
11	68.2	70.0	80.9	55.1	54.3	62.3	0.0	0.0	0.0	0.0	34.8	38.3
12	74.2	69.4	80.2	54.6	52.2	61.9	0.0	0.0	0.0	0.0	34.8	39.9
13	73.9	68.4	80.1	55.6	53.5	62.0	0.0	0.0	0.0	0.0	34.8	39.6
14	73.5	67.5	78.6	55.5	53.4	60.7	0.0	0.0	0.0	0.0	34.8	39.6
15	73.9	71.1	77.9	55.9	52.7	59.0	0.0	0.0	0.0	0.0	34.2	39.6
16	73.0	72.7	81.8	54.3	52.5	59.1	0.0	0.0	0.0	0.0	33.8	39.5
17	73.6	71.5	80.5	50.7	52.5	58.8	0.0	0.0	0.0	0.0	33.7	39.6
18	73.8	40.2	82.0	51.5	52.5	42.0	0.0	0.0	0.0	0.0	33.8	41.0
19	54.9	0.0	80.1	52.4	52.2	30.8	0.0	0.0	0.0	0.0	33.8	43.6
20	33.6	0.0	78.6	51.9	52.3	15.2	0.0	0.0	0.0	0.0	33.8	43.0
21	33.2	0.0	78.0	51.9	52.2	0.0	0.0	0.0	0.0	0.0	34.0	42.6
22	33.6	30.5	78.0	49.3	52.0	0.0	0.0	0.0	0.0	0.0	33.6	42.7
23	35.2	77.9	78.1	50.1	51.7	0.0	0.0	0.0	0.0	0.0	33.3	42.4
24	35.1	76.8	77.3	50.6	52.1	0.0	0.0	0.0	0.0	0.0	33.1	42.3
25	36.4	75.9	78.3	51.1	52.0	0.0	0.0	0.0	0.0	0.0	33.4	45.5
26	41.9	77.0	81.0	51.1	51.9	0.0	0.0	0.0	0.0	0.0	36.9	46.7
27	52.6	78.1	81.2	51.9	51.7	0.0	0.0	0.0	0.0	0.0	37.2	48.0
28	53.0	77.5	70.7	52.1	51.6	34.5	0.0	0.0	0.0	0.0	36.8	48.3
29	53.4	78.2	63.1	52.5	49.5	49.8	0.0	0.0	0.0	34.0	36.4	46.4
30	54.8	77.5	64.8	50.2	49.0	49.7	0.0	-	0.0	59.6	36.4	46.6
31	53.5	76.6	-	51.9	-	47.9	0.0	-	0.0	-	36.4	-
Minimum	33.2	0.0	63.1	49.3	47.0	0.0	0.0	0.0	0.0	0.0	33.1	36.2
Maximum	74.2	78.2	82.0	67.0	54.3	62.5	0.0	0.0	0.0	59.6	58.9	48.3
Average	58.3	59.5	78.1	55.5	51.6	40.2	0.0	0.0	0.0	3.1	37.7	40.6
Total Volume (af)	3,585.3	3,661.4	4,649.2	3,415.0	3,072.1	2,470.9	0.1	0.0	0.0	185.8	2,316.7	2,417.2

Note: On days when the non-replenishment discharge recorded was greater than the measured recharge, the total diversion volume was manually changed to 0.

Appendix A4

Average Daily Discharge of All IEUA Recycled Water Effluent Discharges to Chino Creek, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	9.3	3.7	5.6	9.4	8.4	15.0	21.8	27.4	24.9	27.4	13.8	11.9
2	7.7	2.2	6.7	10.1	13.0	15.0	26.5	26.3	29.2	24.1	16.2	11.1
3	7.7	1.5	6.7	10.8	11.6	15.0	28.0	25.4	27.7	26.3	18.7	13.2
4	8.4	2.2	6.5	11.8	11.9	21.2	26.3	27.5	28.8	26.0	18.6	13.2
5	5.0	5.4	8.0	10.1	13.8	16.7	25.7	41.2	26.0	25.4	21.2	14.9
6	4.3	5.7	9.0	11.0	12.1	15.9	25.5	51.5	27.5	24.8	20.3	13.9
7	3.9	3.4	8.5	10.5	10.2	16.1	27.7	41.6	27.7	24.8	17.8	11.3
8	5.4	1.9	10.5	11.0	11.6	19.5	26.0	32.3	29.7	22.9	16.7	13.5
9	6.8	2.8	10.7	9.7	11.3	17.2	25.2	30.8	29.4	21.7	15.5	15.5
10	5.6	5.0	11.0	8.0	12.8	16.6	24.9	28.6	28.6	22.4	17.6	12.2
11	5.6	6.2	10.7	9.0	13.8	16.1	23.5	28.5	28.6	18.1	16.4	11.8
12	6.2	6.2	10.2	8.4	13.9	13.3	24.0	25.5	26.3	21.8	17.9	12.2
13	6.2	6.5	9.9	7.4	8.5	15.6	23.2	28.2	25.5	23.7	17.5	13.0
14	3.7	5.6	10.2	9.3	8.7	16.4	24.3	27.2	24.4	25.1	19.0	10.4
15	7.0	5.4	10.2	11.1	14.1	14.7	24.8	27.1	22.7	24.9	19.5	11.3
16	7.1	5.4	11.4	11.0	20.0	19.8	22.6	24.4	23.7	22.1	16.4	12.7
17	6.5	5.4	10.5	5.3	20.3	19.5	19.3	26.5	24.4	20.9	16.1	10.7
18	4.8	5.7	11.3	4.2	21.0	19.0	20.1	23.7	24.1	20.7	16.9	9.7
19	5.6	7.1	10.7	5.3	20.9	24.4	21.0	27.5	25.1	19.5	17.3	8.7
20	3.1	13.9	7.0	5.3	18.1	24.0	24.6	39.6	23.4	21.4	18.9	8.0
21	2.5	19.3	6.3	6.3	13.5	26.6	24.6	34.8	23.1	21.8	17.2	8.5
22	2.9	16.2	6.3	8.2	11.6	23.5	27.4	28.0	21.5	19.6	16.6	9.3
23	5.4	16.2	9.0	8.0	16.2	24.1	26.6	28.6	23.8	13.9	16.9	12.5
24	5.3	14.2	14.5	11.8	11.8	23.2	24.6	28.3	24.6	20.0	15.9	9.9
25	3.7	12.8	11.3	8.5	12.5	23.5	24.3	29.9	25.1	21.5	16.1	9.1
26	4.2	12.2	6.5	8.5	12.5	22.7	24.3	27.5	20.3	18.7	15.8	10.8
27	4.2	13.9	5.7	6.8	11.1	24.1	25.8	26.0	18.1	18.9	16.6	8.7
28	7.7	13.9	5.6	8.0	10.4	22.3	24.4	28.2	20.0	21.4	16.7	7.6
29	6.3	10.7	5.6	9.1	11.8	22.0	24.9	27.7	23.2	20.0	17.3	9.9
30	4.6	8.5	6.7	7.7	15.0	26.5	23.4	-	28.6	15.8	13.6	10.4
31	4.8	8.8	-	7.6	-	25.5	23.8	-	27.2	-	11.3	-
Minimum	2.5	1.5	5.6	4.2	8.4	13.3	19.3	23.7	18.1	13.9	11.3	7.6
Maximum	9.3	19.3	14.5	11.8	21.0	26.6	28.0	51.5	29.7	27.4	21.2	15.5
Average	5.5	8.0	8.8	8.7	13.4	19.8	24.5	30.0	25.3	21.8	17.0	11.2
Total Volume (af)	340.0	492.2	521.1	534.0	797.9	1,220.2	1,505.9	1,725.3	1,553.8	1,300.0	1,043.7	665.9

Appendix A5
Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir
after Watermaster Diversions and Removal of OCWD OC-59 Discharge, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	10.2	4.6	9.1	11.2	9.0	15.9	23.6	418.4	27.9	31.8	15.0	13.0
2	8.7	3.0	14.8	10.9	13.6	15.8	28.4	81.4	96.3	28.5	17.3	12.4
3	8.7	2.4	8.4	11.7	12.3	15.7	86.2	84.2	31.2	30.8	19.8	14.2
4	9.3	3.0	7.7	12.8	12.6	22.0	27.9	542.5	31.8	29.4	19.6	14.2
5	5.8	6.3	9.2	11.3	14.3	17.4	27.0	1,231.2	28.8	37.9	48.7	15.7
6	5.3	6.6	10.1	12.3	12.6	16.7	27.2	470.5	108.6	27.6	22.0	14.8
7	4.8	4.4	9.6	11.7	10.9	16.8	38.8	164.6	69.5	27.4	19.2	12.2
8	6.3	2.9	11.5	12.3	12.3	20.2	27.0	107.0	33.5	25.6	18.3	14.3
9	7.7	3.8	11.7	11.1	11.9	17.9	25.9	37.0	32.6	24.3	18.6	16.3
10	6.5	6.2	13.4	9.0	13.5	17.2	25.7	32.2	31.5	25.1	20.3	13.0
11	6.5	7.3	12.4	9.7	14.4	16.7	24.3	31.6	31.5	20.8	19.1	13.2
12	7.0	7.2	11.5	9.2	14.5	14.0	24.7	28.2	29.3	24.2	21.8	12.8
13	7.0	7.6	11.2	8.2	9.2	16.7	23.9	30.5	28.4	31.5	20.7	13.7
14	4.6	6.6	11.8	10.0	9.4	17.3	25.1	29.6	27.1	81.6	22.3	11.1
15	8.6	6.5	11.3	11.8	95.8	15.8	25.5	29.3	25.5	27.9	21.3	11.9
16	8.8	6.4	12.5	11.9	22.3	20.4	23.3	26.7	26.3	23.9	17.9	13.6
17	7.3	6.4	11.6	5.9	21.7	20.4	20.1	28.6	26.9	22.8	17.4	11.6
18	5.6	6.8	12.3	4.8	25.1	19.8	20.9	25.6	26.7	22.4	18.1	10.4
19	6.4	8.6	11.6	6.4	21.9	26.9	21.8	91.0	27.6	21.4	18.6	9.4
20	3.9	555.9	8.1	6.2	19.1	113.0	48.4	523.6	25.9	22.8	20.1	8.7
21	3.2	207.3	7.2	7.0	14.3	36.1	35.2	215.8	25.4	23.4	18.4	9.3
22	4.0	18.3	7.2	9.1	12.4	74.8	268.4	33.0	23.9	21.9	17.8	10.0
23	6.8	17.8	9.8	9.9	17.0	25.2	29.7	32.4	30.8	15.3	17.9	13.2
24	6.2	15.6	15.5	12.4	12.5	24.5	26.2	31.7	71.7	21.4	17.1	10.6
25	4.6	14.2	12.1	9.5	13.2	24.7	25.9	33.0	27.7	22.9	17.2	9.9
26	5.9	13.5	7.4	9.2	13.2	23.9	25.5	32.3	22.5	20.1	17.0	11.3
27	5.5	15.2	6.5	7.8	11.8	25.2	27.4	31.6	20.5	20.3	17.8	9.2
28	8.6	15.1	6.4	8.7	11.0	23.2	26.1	31.1	22.0	22.6	17.9	8.2
29	7.3	12.3	6.5	9.9	12.5	22.8	27.0	30.6	25.3	21.6	18.5	10.4
30	6.4	9.9	8.0	8.3	15.8	57.5	24.2	-	376.6	17.1	14.7	10.9
31	6.7	10.0	-	8.2	-	26.6	24.5	-	68.3	-	12.5	-
Minimum	3.2	2.4	6.4	4.8	9.0	14.0	20.1	25.6	20.5	15.3	12.5	8.2
Maximum	10.2	555.9	15.5	12.8	95.8	113.0	268.4	1,231.2	376.6	81.6	48.7	16.3
Average	6.6	32.6	10.2	9.6	17.0	26.5	36.6	154.7	47.8	26.5	19.5	12.0
Total Volume (af)	405.1	2,006.9	608.5	591.4	1,011.9	1,628.3	2,253.0	8,897.1	2,939.3	1,574.9	1,195.9	713.3

Appendix A6

Daily Diversions of Stormwater and Dry-Weather Discharges to Recharge Basins from the Chino Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	19.0	0.0	0.0	0.0	0.0	75.2	2.7	0.0	0.0	0.0
2	0.0	0.0	25.8	0.0	0.0	0.0	0.0	0.2	55.2	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	22.8	0.7	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	145.9	0.0	7.2	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	184.6	0.0	7.2	24.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.4	26.6	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	6.3	31.1	16.9	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
10	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.9	0.0	0.0
15	0.0	0.0	0.0	0.0	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	1.8	0.0	30.5	0.0	0.0	0.0	0.0
20	0.0	166.1	0.0	0.0	0.0	31.1	14.4	123.0	0.0	0.0	0.0	0.0
21	0.0	52.8	0.0	0.0	0.0	0.8	10.6	36.6	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	14.9	71.5	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	12.5	0.0	0.0	17.6	0.0	-	104.7	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	9.1	-	0.0	-
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum	0.0	166.1	25.8	4.3	18.7	31.1	71.5	184.6	104.7	38.9	24.0	0.0
Average	0.0	7.1	2.0	0.1	0.6	2.1	4.1	24.4	7.4	2.1	0.8	0.0
Total Volume (af)	0.6	434.1	118.9	8.5	37.0	131.2	251.6	1,402.0	452.0	124.3	47.6	0.0

Note: On days when the non-replenishment discharge recorded was greater than the measured recharge, the total diversion volume was manually changed to 0.

Appendix A7
Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir
without Watermaster Diversion, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	10.2	4.6	28.1	11.2	9.0	15.9	23.6	493.6	30.6	31.8	15.0	13.0
2	8.7	3.1	40.7	10.9	13.6	15.8	28.4	81.6	151.6	28.5	17.3	12.4
3	8.7	2.4	8.4	11.7	12.3	15.7	109.0	84.9	31.2	30.8	19.8	14.2
4	9.3	3.0	7.7	12.8	12.6	22.0	27.9	688.4	31.8	36.6	19.6	14.2
5	5.8	6.3	9.3	11.3	14.3	17.4	27.0	1,415.8	28.8	45.1	72.7	15.7
6	5.3	6.6	10.1	12.3	12.6	16.7	27.2	544.9	135.2	27.6	22.0	14.8
7	4.8	4.4	9.6	11.7	10.9	16.8	45.0	195.7	86.4	27.4	19.2	12.2
8	6.3	2.9	11.6	12.3	12.3	20.2	27.0	107.0	33.5	25.6	18.3	14.3
9	7.7	3.8	11.7	11.1	11.9	17.9	25.9	38.0	32.6	24.3	18.6	16.3
10	6.5	6.2	15.0	9.0	13.5	17.2	25.7	32.2	31.5	25.1	20.3	13.0
11	6.5	7.3	12.5	9.7	14.4	16.7	24.3	31.6	31.5	20.8	19.1	13.2
12	7.0	7.2	11.6	9.2	14.5	14.0	24.7	28.2	29.3	24.2	21.8	12.8
13	7.0	7.6	11.2	8.2	9.2	16.7	23.9	30.5	28.4	40.9	20.7	13.7
14	4.6	6.6	11.9	10.0	9.4	17.3	25.1	29.6	27.1	120.4	22.3	11.1
15	8.7	6.5	11.3	11.8	114.4	15.8	25.5	29.3	25.5	27.9	21.3	11.9
16	8.8	6.4	12.6	11.9	22.3	20.4	23.3	26.7	26.4	23.9	17.9	13.6
17	7.3	6.4	11.6	5.9	21.7	20.4	20.1	28.6	27.0	22.8	17.4	11.6
18	5.6	6.8	12.3	4.8	25.1	19.8	20.9	25.6	26.7	22.4	18.1	10.4
19	6.4	8.6	11.7	6.4	21.9	28.7	21.8	121.5	27.7	21.4	18.6	9.4
20	3.9	722.0	8.2	6.2	19.1	144.0	62.8	646.6	25.9	22.8	20.1	8.7
21	3.2	260.1	7.3	7.0	14.3	36.9	45.8	252.4	25.4	23.4	18.4	9.3
22	4.0	18.3	7.3	9.1	12.4	89.7	339.9	33.0	24.0	21.9	17.8	10.0
23	6.8	17.8	9.9	14.2	17.0	25.2	29.7	32.4	33.8	15.3	17.9	13.2
24	6.2	15.6	15.5	12.4	12.5	24.5	26.2	31.7	80.8	21.4	17.1	10.6
25	4.6	14.2	12.2	9.5	13.2	24.7	27.2	33.0	27.7	22.9	17.2	9.9
26	5.9	13.5	7.5	9.2	13.2	23.9	25.5	34.1	22.5	20.1	17.0	11.3
27	5.5	15.2	6.6	7.8	11.8	25.2	27.4	33.4	20.5	20.3	17.8	9.2
28	8.6	15.1	6.5	8.7	11.0	23.2	26.1	31.1	22.1	22.6	17.9	8.2
29	7.3	12.3	6.6	9.9	12.5	22.8	27.0	30.6	25.4	21.6	18.5	10.4
30	6.5	9.9	20.5	8.3	15.8	75.1	24.2	-	481.4	17.1	14.7	10.9
31	6.7	10.0	-	8.2	-	26.6	24.5	-	77.4	-	12.5	-
Minimum	3.2	2.4	6.5	4.8	9.0	14.0	20.1	25.6	20.5	15.3	12.5	8.2
Maximum	10.2	722.0	40.7	14.2	114.4	144.0	339.9	1,415.8	481.4	120.4	72.7	16.3
Average	6.6	39.7	12.2	9.8	17.6	28.6	40.7	179.0	55.2	28.6	20.2	12.0
Total Volume (af)	405.7	2,441.0	727.4	599.9	1,048.9	1,759.5	2,504.6	10,299.1	3,391.4	1,699.2	1,243.5	713.3

Appendix B1
Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir after Watermaster Diversions, (cfs)
(Average Daily Discharge at USGS Gage 11073495)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	5.5	0.0	40.8	32.5	12.0	41.8	39.3	368.0	111.0	51.9	9.5	28.1
2	4.7	0.5	6.8	13.5	3.6	40.3	46.2	37.7	693.0	41.2	13.2	24.4
3	0.3	0.0	8.2	3.1	6.3	38.5	120.0	21.7	212.0	37.1	17.2	30.7
4	0.9	0.1	5.2	2.1	9.9	31.8	30.3	429.0	121.0	25.8	19.9	22.2
5	0.4	1.0	3.5	0.5	14.6	20.9	22.8	3,640.0	69.8	33.2	121.0	18.3
6	1.6	2.3	2.4	0.1	3.7	23.7	23.5	1,780.0	222.0	36.7	22.8	18.5
7	3.5	0.5	3.2	0.3	8.7	19.0	32.1	528.0	768.0	33.4	19.7	26.6
8	4.9	0.3	3.1	2.3	14.8	23.4	23.3	160.0	83.8	27.2	18.4	28.6
9	9.2	0.7	6.6	7.3	6.9	25.2	22.5	88.2	51.6	34.3	13.3	33.9
10	4.0	1.6	10.9	9.3	10.3	26.5	20.4	177.0	58.3	33.7	14.1	31.3
11	0.6	6.6	6.3	15.1	12.5	25.3	19.5	152.0	72.3	17.9	14.1	25.3
12	0.0	10.7	3.0	18.0	13.8	23.6	18.7	102.0	68.2	34.3	19.1	24.4
13	0.0	20.6	1.9	11.3	9.7	21.4	21.3	127.0	72.1	48.6	16.1	26.3
14	0.1	18.0	2.8	15.2	26.6	27.6	20.1	70.9	94.0	171.0	16.7	15.8
15	0.0	15.0	2.8	18.1	112.0	24.5	16.0	14.8	84.7	29.4	14.7	14.1
16	0.3	4.4	5.5	25.0	43.7	28.5	14.9	15.9	76.8	31.0	23.3	24.0
17	0.6	4.9	9.2	23.5	48.2	27.2	17.9	17.1	86.3	34.9	23.1	32.4
18	0.4	2.6	6.6	18.5	48.0	31.7	20.4	19.5	91.8	31.3	22.6	24.2
19	0.3	44.5	1.7	11.4	38.2	38.8	20.4	148.0	80.1	25.7	31.9	20.8
20	0.4	735.0	5.4	15.3	35.5	87.6	63.3	1,370.0	81.4	32.8	29.3	26.9
21	0.6	435.0	10.7	9.7	23.6	166.0	115.0	549.0	76.1	31.9	27.2	21.1
22	0.8	23.3	11.2	11.8	26.0	238.0	440.0	121.0	71.9	31.0	30.8	27.9
23	12.3	18.1	15.4	20.0	24.5	80.4	64.2	93.9	85.4	26.1	23.4	22.6
24	21.9	19.8	15.0	13.4	19.3	72.3	14.6	74.6	93.5	14.1	27.9	9.3
25	23.8	8.0	9.1	12.8	26.4	72.0	19.1	75.3	82.7	19.2	21.6	12.2
26	73.8	2.3	4.1	14.1	30.4	63.1	13.3	88.6	86.4	18.5	24.9	49.5
27	35.2	15.7	3.7	14.4	32.3	50.5	13.9	89.5	94.7	20.0	22.3	5.9
28	3.5	79.4	5.0	7.2	27.5	27.0	14.6	83.7	99.5	21.2	25.2	4.9
29	0.4	47.0	5.4	16.4	11.8	29.1	16.4	94.2	110.0	26.0	21.5	10.9
30	3.5	181.0	51.9	24.6	39.7	49.4	19.6	--	701.0	12.6	24.7	22.5
31	8.1	44.6	--	15.6	--	32.6	20.3	--	143.0	--	27.5	--
Minimum	0.0	0.0	1.7	0.1	3.6	19.0	13.3	14.8	51.6	12.6	9.5	4.9
Maximum	73.8	735.0	51.9	32.5	112.0	238.0	440.0	3,640.0	768.0	171.0	121.0	49.5
Average	7.2	56.2	8.9	13.0	24.7	48.6	44.0	363.3	156.2	34.4	24.4	22.8
Total Volume (af)	439.8	3,458.1	529.8	797.8	1,468.7	2,990.5	2,705.3	20,899.0	9,604.8	2,046.9	1,501.4	1,355.8

Note: For July 1, 2023 to December 1, 2023, data have been approved by the USGS; data after December 1, 2023 are provisional.

Appendix B2

Daily Diversions to Recharge Basins on the Cucamonga Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.4	0.5	40.8	0.5	0.9	0.8	0.3	147.4	7.9	3.6	1.0	0.2
2	0.4	0.5	5.1	0.5	0.9	0.8	0.3	12.6	110.7	3.6	1.0	0.2
3	0.4	0.5	1.5	0.5	0.9	0.8	58.9	6.7	12.9	1.8	1.0	0.2
4	0.4	0.5	1.5	0.5	0.9	0.4	0.1	101.5	2.4	0.4	1.0	0.2
5	0.4	0.5	1.5	0.5	0.9	0.4	0.3	42.7	0.4	3.3	19.2	0.2
6	0.4	0.5	0.4	0.5	0.9	0.4	0.3	34.2	43.2	0.4	3.0	0.2
7	0.4	0.5	0.4	0.5	0.9	0.4	10.0	29.7	15.9	0.4	2.3	0.2
8	0.4	0.5	0.4	0.5	0.9	0.4	0.3	5.9	14.0	0.4	0.7	0.2
9	0.4	0.5	0.4	0.5	0.9	0.4	0.4	14.0	3.1	0.5	0.7	0.2
10	0.4	0.5	2.2	0.5	0.9	0.4	0.3	3.7	1.7	0.7	0.7	0.2
11	0.4	0.5	0.4	0.9	0.9	0.5	0.3	3.6	0.8	0.8	0.7	0.5
12	0.4	60.3	0.4	0.9	0.9	0.5	0.3	1.5	0.8	0.8	0.7	0.5
13	0.4	0.5	0.4	0.9	0.9	0.5	0.3	1.5	0.8	16.4	0.7	0.5
14	67.6	0.5	0.5	0.9	0.9	0.5	0.3	1.5	0.4	68.7	0.9	0.5
15	0.4	0.5	0.5	0.9	107.9	0.5	0.3	1.4	0.5	12.9	0.2	0.5
16	0.4	0.5	0.5	0.9	0.9	0.5	0.3	1.4	0.4	2.7	0.2	0.5
17	0.4	0.5	0.5	0.9	0.9	0.5	0.3	0.1	0.4	1.0	0.2	0.4
18	0.4	0.4	16.5	0.9	0.9	0.3	0.3	0.2	0.4	1.0	0.2	0.4
19	0.4	0.3	0.5	0.9	0.9	16.5	0.3	52.3	0.4	0.9	0.2	0.3
20	0.4	306.6	0.5	0.9	0.9	69.5	34.0	115.4	0.4	0.9	0.2	0.3
21	0.4	41.8	0.5	0.9	0.8	10.8	34.3	20.1	0.4	0.9	0.2	0.3
22	0.4	17.8	0.5	0.9	0.8	55.9	150.3	1.7	0.4	0.9	0.2	0.3
23	0.4	1.6	0.5	27.8	0.8	2.0	5.6	1.7	8.9	1.0	0.2	0.3
24	0.4	0.8	0.5	0.9	0.8	1.1	3.8	1.6	13.0	1.0	0.2	0.3
25	0.4	0.5	15.2	0.9	0.8	0.3	5.9	1.5	0.4	1.0	0.2	0.3
26	0.4	0.5	0.5	0.9	0.8	0.3	0.1	5.2	0.4	1.0	0.2	0.3
27	0.4	0.5	1.7	0.9	0.8	0.3	0.1	2.2	0.5	1.0	0.2	0.3
28	0.4	0.5	0.5	0.9	0.8	0.3	0.1	1.0	0.5	1.0	0.2	0.3
29	0.4	0.5	0.5	0.9	0.8	0.3	0.1	0.2	0.5	1.1	0.2	0.3
30	0.4	0.5	15.5	0.9	0.9	35.3	0.1	-	223.3	1.0	0.2	0.3
31	0.4	0.3	-	0.9	-	0.3	0.1	-	20.0	-	0.2	-
Minimum	0.4	0.3	0.4	0.5	0.8	0.3	0.1	0.1	0.4	0.4	0.2	0.2
Maximum	67.6	306.6	40.8	27.8	107.9	69.5	150.3	147.4	223.3	68.7	19.2	0.5
Average	2.6	14.2	3.7	1.7	4.5	6.5	10.0	21.1	15.7	4.4	1.2	0.3
Total Volume (af)	157.5	873.4	220.4	102.0	264.9	401.3	612.9	1,215.0	964.4	260.4	74.5	19.8

Appendix B3
Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir
without Watermaster Diversions, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	5.9	0.5	81.6	33.0	12.9	42.6	39.6	515.4	118.9	55.5	10.5	28.3
2	5.1	1.0	11.9	14.0	4.5	41.1	46.5	50.3	803.7	44.8	14.2	24.6
3	0.7	0.5	9.7	3.7	7.2	39.3	178.9	28.4	224.9	38.9	18.2	30.9
4	1.3	0.6	6.6	2.6	10.8	32.2	30.4	530.5	123.4	26.2	20.9	22.4
5	0.8	1.5	4.9	1.0	15.5	21.3	23.1	3,682.7	70.2	36.5	140.2	18.5
6	2.0	2.8	2.8	0.6	4.6	24.1	23.8	1,814.2	265.2	37.1	25.8	18.7
7	3.9	0.9	3.6	0.8	9.6	19.4	42.1	557.7	783.9	33.8	22.0	26.8
8	5.2	0.8	3.5	2.9	15.7	23.8	23.6	165.9	97.8	27.6	19.1	28.8
9	9.6	1.2	7.0	7.8	7.8	25.6	22.9	102.2	54.7	34.8	14.0	34.1
10	4.4	2.0	13.1	9.8	11.2	26.9	20.7	180.7	60.0	34.4	14.8	31.5
11	1.0	7.0	6.7	16.0	13.4	25.8	19.8	155.6	73.1	18.7	14.8	25.8
12	0.4	71.0	3.3	18.9	14.7	24.1	19.0	103.5	69.0	35.1	19.8	24.9
13	0.4	21.1	2.3	12.2	10.6	21.9	21.6	128.5	72.9	65.0	16.8	26.8
14	67.7	18.5	3.3	16.1	27.5	28.1	20.4	72.4	94.4	239.7	17.6	16.3
15	0.4	15.5	3.3	19.0	219.9	25.0	16.3	16.2	85.2	42.3	14.9	14.6
16	0.6	4.9	6.0	25.9	44.6	29.0	15.2	17.3	77.2	33.7	23.5	24.5
17	1.0	5.3	9.7	24.4	49.1	27.7	18.2	17.2	86.7	35.9	23.3	32.8
18	0.8	3.0	23.1	19.4	48.9	32.0	20.7	19.7	92.2	32.3	22.8	24.6
19	0.7	44.8	2.2	12.3	39.1	55.3	20.7	200.3	80.5	26.6	32.1	21.1
20	0.7	1,041.6	5.9	16.2	36.4	157.1	97.3	1,485.4	81.8	33.7	29.5	27.2
21	1.0	476.8	11.2	10.6	24.4	176.8	149.3	569.1	76.5	32.8	27.4	21.4
22	1.2	41.1	11.7	12.7	26.8	293.9	590.3	122.7	72.3	31.9	31.0	28.2
23	12.7	19.7	15.9	47.8	25.3	82.4	69.8	95.6	94.3	27.1	23.6	22.9
24	22.3	20.6	15.5	14.3	20.1	73.4	18.4	76.2	106.5	15.1	28.1	9.6
25	24.2	8.4	24.3	13.7	27.2	72.3	25.0	76.8	83.1	20.2	21.8	12.5
26	74.2	2.8	4.6	15.0	31.2	63.4	13.4	93.8	86.8	19.5	25.1	49.8
27	35.6	16.2	5.4	15.3	33.1	50.8	14.0	91.7	95.2	21.0	22.5	6.2
28	3.9	79.9	5.5	8.1	28.3	27.3	14.7	84.7	100.0	22.2	25.4	5.2
29	0.8	47.5	5.9	17.3	12.6	29.4	16.5	94.4	110.5	27.1	21.7	11.2
30	3.9	181.5	67.4	25.5	40.6	84.7	19.7	--	924.3	13.6	24.9	22.8
31	8.5	44.9	--	16.5	--	32.9	20.4	--	163.0	--	27.7	--
Minimum	0.4	0.5	2.2	0.6	4.5	19.4	13.4	16.2	54.7	13.6	10.5	5.2
Maximum	74.2	1,041.6	81.6	47.8	219.9	293.9	590.3	3,682.7	924.3	239.7	140.2	49.8
Average	9.7	70.4	12.6	14.6	29.1	55.2	54.0	384.5	171.9	38.8	25.6	23.1
Total Volume (af)	597.3	4,331.5	750.2	899.8	1,733.5	3,391.8	3,318.2	22,114.0	10,569.2	2,307.4	1,575.9	1,375.6

Appendix C1
WLAM Estimated Daily Discharge from Day Creek to the Santa Ana River
without Watermaster Diversions (Stormwater Flow only), (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	3.6	0.0	0.0	0.0	1.9	162.1	9.6	50.1	0.3	0.0
2	0.0	0.0	1.6	0.0	0.0	0.0	1.5	90.9	53.2	21.1	0.2	0.0
3	0.0	0.0	1.2	0.0	0.0	0.0	24.1	39.5	30.6	10.7	0.0	0.0
4	0.0	0.0	0.8	0.0	0.0	0.0	12.3	729.7	14.5	5.7	2.0	0.0
5	0.0	0.0	0.6	0.0	0.0	0.0	6.5	1,334.3	7.6	5.8	4.7	0.0
6	0.0	0.0	0.3	0.0	0.0	0.0	4.6	631.7	68.3	4.3	1.6	0.0
7	0.0	0.0	0.1	0.0	0.0	0.0	3.6	705.1	62.0	3.4	1.2	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	2.9	218.7	38.6	2.7	0.9	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	108.8	17.2	2.1	0.6	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	1.7	71.0	8.9	1.6	0.4	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	1.3	29.1	5.0	1.2	0.2	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.0	13.9	3.9	0.9	0.1	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.7	7.3	3.1	4.2	0.1	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.5	2.4	14.1	0.1	0.0
15	0.0	0.0	0.0	0.0	16.6	0.0	0.4	3.6	2.2	12.6	0.1	0.0
16	0.0	0.0	0.0	0.0	5.1	0.0	0.2	2.9	1.5	6.6	0.0	0.0
17	0.0	0.0	0.0	0.0	3.9	0.0	0.1	2.3	1.1	4.3	0.0	0.0
18	0.0	0.0	0.0	0.0	3.1	0.6	0.1	1.8	0.8	3.4	0.0	0.0
19	0.0	0.1	0.0	0.0	2.5	0.0	0.0	69.3	0.6	2.7	0.0	0.0
20	0.0	781.3	0.0	0.0	1.9	24.5	45.9	529.9	0.4	2.1	0.0	0.0
21	0.0	126.0	0.0	0.0	1.5	42.9	30.3	140.7	0.3	1.6	0.0	0.0
22	0.0	42.5	0.0	0.0	1.1	22.0	152.0	69.7	0.1	1.2	0.0	0.0
23	0.0	18.5	0.0	5.1	0.8	11.7	78.6	28.4	3.1	1.0	0.0	0.0
24	0.0	9.4	0.0	0.0	0.6	6.2	32.6	13.7	1.3	0.9	0.0	0.0
25	0.0	5.1	0.0	0.0	0.4	4.3	15.2	7.2	1.1	0.9	0.0	0.0
26	0.0	3.8	0.0	0.0	0.2	3.4	8.0	8.3	0.8	0.8	0.0	0.0
27	0.0	3.0	0.0	0.0	0.1	2.7	4.7	6.2	0.6	0.7	0.0	0.0
28	0.0	2.2	0.0	0.0	0.0	2.1	3.7	4.3	0.4	0.7	0.0	0.0
29	0.0	1.6	0.0	0.0	0.0	1.7	3.0	3.4	16.1	0.6	0.0	0.0
30	0.0	1.2	4.2	0.0	0.0	3.3	2.3	-	242.3	0.5	0.0	0.0
31	0.0	0.8	-	0.0	-	2.4	1.8	-	120.7	-	0.0	-
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.1	0.5	0.0	0.0
Maximum	0.0	781.3	4.2	5.1	16.6	42.9	152.0	1,334.3	242.3	50.1	4.7	0.0
Average	0.0	32.1	0.4	0.2	1.3	4.1	14.3	173.7	23.2	5.6	0.4	0.0
Total Volume (af)	0.0	1,974.5	24.6	10.1	75.0	253.5	880.1	9,993.3	1,424.7	334.0	24.8	0.0

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix C2

Daily Diversions to Recharge Basins on the Day Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	3.6	0.0	0.0	0.0	0.0	12.3	0.7	4.0	0.3	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.4	3.1	0.2	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.7	2.2	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.7	1.3	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.4	0.7	1.2	4.7	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	1.8	1.2	0.1	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.3	1.1	0.1	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.1	0.1	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.0	0.8	0.1	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	0.1	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.3	0.1	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.3	0.1	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.2	0.1	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	2.9	0.1	0.0
15	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	1.5	1.3	0.1	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.1	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.4	0.8	0.0	0.0
20	0.0	13.0	0.0	0.0	0.0	2.5	3.3	25.7	0.3	0.9	0.0	0.0
21	0.0	11.7	0.0	0.0	0.0	0.3	1.9	9.2	0.2	1.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	4.0	10.3	8.7	0.1	1.0	0.0	0.0
23	0.0	0.0	0.0	5.1	0.0	0.0	0.0	6.8	0.0	1.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.9	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.9	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.8	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.7	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	0.0	0.0
30	0.0	0.0	4.2	0.0	0.0	3.3	0.0	-	9.8	0.5	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	1.7	-	0.0	-
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Maximum	0.0	13.0	4.2	5.1	6.8	4.0	10.3	61.4	9.8	4.0	4.7	0.0
Average	0.0	0.8	0.3	0.2	0.2	0.3	0.6	6.3	1.6	1.2	0.2	0.0
Total Volume (af)	1.5	49.9	15.8	10.4	13.7	20.5	37.9	364.1	96.5	68.9	12.5	0.8

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix C3

Estimated Daily Dry-Weather Flows Captured by Diversion Basins, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0	-	0.0	-
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Volume (af)	1.5	0.5	0.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.8

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed. On dates when stormwater diversions are measured after storm flow has stopped, dry-weather flows could not be estimated and are assumed to be 0. Within each storm period, however, any diversions in excess of total WLAM estimated stormflow are assumed to be dry-weather flows.

Appendix D1

**WLAM Estimated Daily Discharge from San Sevaine Creek to the Santa Ana River
without Watermaster Diversions (Stormwater Flow only), (cfs)**

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.0	0.0	12.2	0.0	0.0	0.0	0.0	571.3	52.1	92.8	0.0	0.0
2	0.0	0.0	15.3	0.0	0.0	0.0	0.0	15.6	178.3	17.7	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	81.7	12.4	6.7	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,892.1	32.9	6.4	28.7	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,064.1	0.0	19.5	53.3	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1,244.1	215.1	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	9.9	1,049.3	140.2	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	318.4	0.2	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	110.7	55.3	0.0	0.0	0.0
10	0.0	0.0	4.2	0.0	0.0	0.0	0.0	26.8	0.3	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.2	0.0	0.0
15	0.0	0.0	0.0	0.0	150.8	0.0	0.0	0.0	45.6	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	3.1	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	6.8	0.0	266.6	0.0	0.0	0.0	0.0
20	0.0	1,950.3	0.0	0.0	0.0	136.4	175.5	1,265.5	0.0	0.0	0.0	0.0
21	0.0	91.0	0.0	0.0	0.0	100.0	59.8	95.6	0.0	0.0	0.0	0.0
22	0.0	27.8	0.0	2.8	0.0	130.6	372.2	140.6	0.0	0.0	0.0	0.0
23	0.0	0.5	0.0	24.8	0.0	0.0	1.0	42.1	20.7	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	27.5	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	0.0	3.9	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.1	0.0	0.0	0.0
30	0.0	0.0	27.2	0.0	0.0	34.7	0.0	-	673.1	0.0	0.0	0.0
31	0.0	0.0	-	0.0	-	0.0	0.0	-	52.5	-	0.0	-
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum	0.0	1,950.3	27.2	24.8	150.8	136.4	372.2	3,064.1	673.1	92.8	53.3	0.0
Average	0.0	66.8	2.0	0.9	5.0	13.2	23.6	350.1	50.3	8.2	2.6	0.0
Total (af)	0.0	4,105.0	116.9	54.8	299.7	812.9	1,449.5	20,139.9	3,090.5	486.7	162.7	0.0

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix D2

Daily Diversions to Recharge Basins on the San Sevaine Creek Tributary System, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.1	0.1	4.3	0.2	0.2	0.2	0.1	185.5	7.6	9.0	1.9	0.8
2	0.1	0.1	15.3	0.2	0.2	0.2	0.1	15.6	175.3	8.2	1.5	0.8
3	0.1	0.1	7.0	0.7	0.2	0.2	69.6	6.5	23.0	7.3	1.1	0.7
4	0.1	0.1	0.1	0.7	0.2	0.2	0.1	161.7	20.0	6.4	0.7	0.7
5	0.1	0.1	0.2	0.7	0.2	0.2	0.1	130.2	9.6	13.1	53.3	0.6
6	0.1	0.1	0.2	0.7	0.2	0.2	0.1	35.6	83.6	6.0	3.5	0.5
7	0.1	0.1	0.2	0.7	0.2	0.2	9.9	34.2	108.4	5.7	3.0	0.5
8	0.1	0.1	0.2	0.7	0.2	0.2	0.1	8.1	17.1	5.5	2.5	0.4
9	0.1	0.1	0.2	0.2	0.2	0.2	0.1	18.4	15.3	5.5	2.0	0.4
10	0.1	0.1	4.2	0.2	0.2	0.2	0.1	6.5	12.5	5.6	1.8	0.3
11	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	9.6	5.7	1.8	0.4
12	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	9.1	5.4	1.7	0.4
13	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.5	8.7	18.8	1.6	0.4
14	0.1	0.1	0.2	0.2	0.2	0.2	0.1	6.7	6.2	83.2	1.5	0.4
15	0.1	0.1	0.2	0.2	82.0	0.2	0.1	5.3	45.6	6.3	1.7	0.4
16	0.1	0.1	0.2	0.2	0.2	0.2	0.1	4.4	5.7	5.7	1.7	0.4
17	0.1	0.1	0.2	0.2	0.2	0.2	0.1	3.7	5.5	4.3	1.6	0.4
18	0.1	0.1	0.2	0.2	0.2	0.2	0.1	3.2	5.2	3.8	1.5	0.4
19	0.1	0.1	0.2	0.2	0.2	6.8	0.1	61.4	5.0	3.6	1.4	0.4
20	0.1	249.5	0.2	0.2	0.2	136.4	80.6	262.2	4.9	3.4	1.2	0.4
21	0.1	91.0	0.2	0.2	0.2	3.9	59.8	55.7	4.6	3.3	1.2	0.3
22	0.1	4.3	0.2	0.2	0.2	130.6	114.5	12.7	4.4	3.2	1.1	0.3
23	0.1	1.8	0.2	24.8	0.2	0.1	0.1	10.7	20.7	3.3	1.1	0.3
24	0.1	0.7	0.2	0.2	0.2	0.1	0.1	9.8	17.1	3.3	1.0	0.3
25	0.1	0.1	0.2	0.2	0.2	0.1	27.5	9.0	2.7	3.2	1.0	0.3
26	2.9	0.1	0.2	0.2	0.2	0.1	0.1	13.0	3.1	3.2	1.0	0.3
27	2.9	0.1	0.2	0.2	0.2	0.1	0.1	12.2	4.1	3.2	0.9	0.3
28	0.1	0.1	0.2	0.2	0.2	0.1	0.1	4.5	4.5	3.2	0.9	0.3
29	0.1	0.1	0.2	0.2	0.2	0.1	0.1	3.9	4.5	3.2	0.8	0.3
30	0.1	0.1	27.2	0.2	0.2	34.7	0.1	-	247.4	2.8	0.8	0.3
31	0.1	0.1	-	0.2	-	0.1	0.1	-	52.5	-	0.8	-
Minimum	0.1	0.1	0.1	0.2	0.2	0.1	0.1	3.2	2.7	2.8	0.7	0.3
Maximum	2.9	249.5	27.2	24.8	82.0	136.4	114.5	262.2	247.4	83.2	53.3	0.8
Average	0.3	11.3	2.1	1.1	2.9	10.2	11.7	37.9	30.4	8.1	3.1	0.4
Total (af)	16.3	693.5	125.8	68.2	175.1	629.1	722.0	2,182.5	1,871.4	484.7	192.9	25.1

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed.

Appendix D3

Estimated Daily Dry-Weather Flows Captured by Diversion Basins, (cfs)

Day	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24
1	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.0	0.0	0.0	1.9	0.8
2	0.1	0.1	0.0	0.2	0.2	0.2	0.1	0.0	0.0	0.0	1.5	0.8
3	0.1	0.1	7.0	0.7	0.2	0.2	0.0	0.0	0.0	7.3	1.1	0.7
4	0.1	0.1	0.1	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.7
5	0.1	0.1	0.2	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.6
6	0.1	0.1	0.2	0.7	0.2	0.2	0.0	0.0	0.0	6.0	3.5	0.5
7	0.1	0.1	0.2	0.7	0.0	0.2	0.0	0.0	0.0	5.7	3.0	0.5
8	0.1	0.1	0.2	0.7	0.0	0.2	0.0	0.0	0.0	5.5	2.5	0.4
9	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	5.5	2.0	0.4
10	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	5.6	1.8	0.3
11	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	9.6	5.7	1.8	0.4
12	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	9.1	0.0	1.7	0.4
13	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.5	0.0	0.0	1.6	0.4
14	0.1	0.1	0.2	0.2	0.0	0.0	0.0	6.7	6.2	0.0	1.5	0.4
15	0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	6.3	1.7	0.4
16	0.1	0.1	0.2	0.2	0.0	0.0	0.0	4.4	5.7	2.6	1.7	0.4
17	0.1	0.1	0.2	0.2	0.2	0.0	0.0	3.7	5.5	4.3	1.6	0.4
18	0.1	0.1	0.2	0.2	0.2	0.0	0.0	3.2	0.0	3.8	1.5	0.4
19	0.1	0.1	0.2	0.2	0.2	0.0	0.0	0.0	5.0	3.6	1.4	0.4
20	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	4.9	3.4	1.2	0.4
21	0.1	0.0	0.2	0.2	0.2	0.0	0.0	0.0	4.6	3.3	1.2	0.3
22	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.0	4.4	3.2	1.1	0.3
23	0.1	1.3	0.2	0.0	0.2	0.0	0.0	0.0	0.0	3.3	1.1	0.3
24	0.1	0.7	0.2	0.2	0.2	0.0	0.0	9.8	0.0	3.3	1.0	0.3
25	0.1	0.1	0.2	0.0	0.2	0.0	0.0	9.0	0.0	3.2	1.0	0.3
26	2.9	0.1	0.2	0.0	0.2	0.0	0.1	0.0	0.0	0.0	1.0	0.3
27	2.9	0.1	0.2	0.2	0.2	0.0	0.1	0.0	0.0	3.2	0.9	0.3
28	0.1	0.1	0.2	0.2	0.2	0.0	0.1	4.5	0.0	3.2	0.9	0.3
29	0.1	0.1	0.2	0.2	0.2	0.0	0.1	0.0	0.0	3.2	0.8	0.3
30	0.1	0.1	0.0	0.2	0.2	0.0	0.1	-	0.0	2.8	0.8	0.3
31	0.1	0.1	-	0.2	-	0.0	0.0	-	0.0	-	0.8	-
Minimum	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Maximum	2.9	1.3	7.0	0.7	0.2	0.2	0.1	9.8	9.6	7.3	3.5	0.8
Average	0.3	0.1	0.4	0.3	0.1	0.1	0.0	2.1	1.8	3.1	1.4	0.4
Total (af)	16.3	8.7	24.6	17.6	8.6	3.4	1.1	120.7	109.1	186.6	85.8	25.1

Note: On dates highlighted in grey, stormwater was recharged in diversion basins. Stormwater can continue to be recharged for several days after a storm has passed. On dates when stormwater diversions are measured after storm flow has stopped, dry-weather flows could not be estimated and are assumed to be zero. Within each storm period, however, any diversions in excess of total WLAM estimated stormflow are assumed to be dry-weather flows.



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
909.484.3888 www.cbwm.org

STAFF REPORT

DATE: October 17, 2024

TO: Advisory Committee Members

SUBJECT: Annual and Semi-Annual Plume Status Reports (Business Item II.B.)

Issue: The Annual and Semi-Annual Plume Status Reports for FY 23/24 have been completed
[Information Only]

Recommendation: None.

Financial Impact: None.

Future Consideration

Advisory Committee – October 17, 2024 Information Only

Watermaster Board – October 24, 2024 Information Only

BACKGROUND

Chino Basin Watermaster (Watermaster), at the Court's direction, developed the Optimism Basin Management Program (OBMP) through a collaborative stakeholder process in 2000. One of the goals of the OBMP was to "Protect and Enhance Water Quality" to ensure the protection of the long-term beneficial uses of Chino Basin groundwater. The OBMP includes multiple Program Elements with actions to protect and enhance water quality. Program Element 6 is to Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management. Program Element 6 was designed to assess groundwater quality trends in the Basin, evaluate the impact of OBMP implementation on groundwater quality, determine whether point and non-point contamination sources are being addressed by regulators, and enable collaboration with water quality regulators, in particular the Santa Ana Regional Water Quality Control Board (Santa Ana Water Board), to identify and facilitate the cleanup of soil and groundwater contamination.

Pursuant to Program Element 6, Watermaster has committed resources to managing water quality contaminants as follows:

- Identify water quality anomalies through monitoring and analysis.
- Assisting the Santa Ana Water Board in determining sources of water quality anomalies.
- Establishing priorities for clean-up jointly with the Santa Ana Water Board; and seeking funding from outside sources to accelerate detection and cleanup efforts.
- Identifying opportunities to remove organic contaminants through regional groundwater treatment projects in the southern half of the Basin; and collaborating with the Chino Desalter Authority to implement such solutions.
- Conducting investigations to assist the Santa Ana Water Board in accomplishing mutually beneficial objectives.

Much of the work listed above was started by the Chino Basin Water Quality Committee from 2003 through 2010. Since 2010, Watermaster has supported ongoing monitoring and analysis to ensure the efforts to manage water quality contamination under Program Element 6 are achieving the intended outcomes and identify any outcomes that may be of concern. This primarily involves analyzing water quality data to assess the movement of identified groundwater plumes in the Basin and tracking the activities of plume cleanup by the responsible parties and the regulatory oversight of the Santa Ana Water Board, but also includes as-needed work to support the Santa Ana Water Board or others in assessing groundwater quality conditions in and around the plumes.

DISCUSSION

As part of the ongoing work for Program Element 6, Watermaster prepares plume status reports for the known point-source contaminant plumes in the Chino Basin. Six plumes are reported on annually which include General Electric (GE) Flatiron Plume, GE Test Cell Plume, Milliken Landfill Plume, Stringfellow Plume, Former Kaiser Steel Mill Plume, and the Chino Institution for Men (CIM) Plume. Two plumes are also reported semi-annually which are the South Archibald Plume and the Chino Airport Plume. These two plumes are reported on more frequently because there is more current activity related to the Santa Ana Water Board regulatory oversight, identification of the responsible parties, and the development and implementation of the appropriate remediation strategy; and both plumes include remedial strategies that include the use of the Chino Basin Desalters.

The plume status reports are standardized with similar sections that describe: the contaminants, location, regulatory orders for cleanup, a summary of the regulatory and monitoring history, the remedial action for cleanup, the monitoring and reporting of plume sampling, and the recent activity. The reports are updated using recent documents available on the State Board's GeoTracker website; data collected by the responsible parties, Watermaster, or others; input and review by the responsible parties for some; and when needed coordination with the Santa Ana Water Board. Each report includes a map exhibit that shows the current delineation of the plume prepared by the Watermaster in the biannual OBMP State of the Basin Reports.

Understanding and tracking the monitoring and remediation activities of groundwater contaminant plumes is critical to the overall management of groundwater quality to ensure that Chino Basin groundwater remains a sustainable resource. This knowledge is also important for assessing the potential impacts on nearby drinking water wells or recharge basins, and evaluating potential material physical injury of the basin related to the movement of plumes from recharge activities, water transfers, and storage programs.

A presentation containing up to date plumes status was provided to the Pool Committees on October 10, 2024 as an informational item.

ATTACHMENTS

The reports will be provided separately.

Annual and Semi-Annual Plume Status Reports
October 10, 2024

RE: Annual and Semi-Annual Plume Status Reports (Business Item II.B.)

Attached reports will be provided separately.



CHINO BASIN WATERMASTER

ADVISORY COMMITTEE

October 17, 2024

INLAND EMPIRE UTILITIES AGENCY REPORTS

The following items are provided for receive and file.

- Metropolitan Water District Activities Report
- Water Supply Conditions
- State and Federal Legislative Reports

For More Information Contact:

 Eddie Lin
 elin@ieua.org
 909.993.1740

See www.MWDh2o.com for the latest information from MWD and tune into livestream broadcasts of meetings.

MWD Board Reelects Adán Ortega, Jr. as Board Chair

On October 8, 2024, the MWD Board of Directors reelected Adán Ortega, Jr. as chair of the board for his second, two-year term. The vote was unanimous, and Adán's second term starts on January 1, 2024. Adán has worked in government relations and water for over 30 years and has been on the MWD Board since 2019.



MWD Update Phasing of Pure Water Southern California

On September 24, 2024, the Subcommittee on Pure Water Southern California and Regional Conveyance received an update on the alternative phasing of Pure Water Southern California (PWSC). The objective of alternative phasing is to reduce the initial scope and cost of the proposed 115 million gallons per day (mgd) Phase 1 of the project and potentially incorporate direct potable reuse (DPR) with treated water augmentation (TWA).

Three primary pathways for Phase 1 have been identified. Pathway A, indirect potable reuse (IPR) treatment at Advanced Water Purification Facility (AWPF) with Raw Water Augmentation (RWA) at Weymouth Treatment Plant. Pathway B, full DPR treatment at AWPF. Pathway C, separate IPR and DPR treatment including two separate pipelines. Pathway A is estimated at \$1,700 per AF for Stage 1, \$3,100 per AF for Stage 2, and \$3,200 per AF for Stage 3. Next steps include refining the proposed alternatives and preparing cost estimates for Pathways B and C.

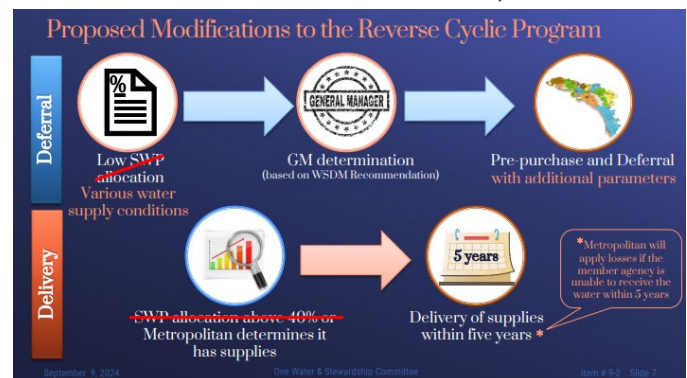
MWD Purchases Long-lead Equipment

On September 9, 2024, the MWD Board of Directors authorized a \$40 million increase to an existing contract to purchase long-lead equipment for the Sepulveda Feeder Pump Stations project, which will increase flexibility for the State Water Project-dependent area.

MWD Investigating Modifying Reverse Cyclic Program

On September 9, 2024, the One Water and Stewardship Committee was presented with information on modifying the existing Reverse Cyclic Program (Program). The Program currently allows member agencies to purchase supplies for delivery in a future year, at the current year full-service rate under low State Water Program (SWP) delivery conditions. The program helps MWD increase immediate revenue while reducing member agency costs by purchasing at current rates instead of potentially higher future rates.

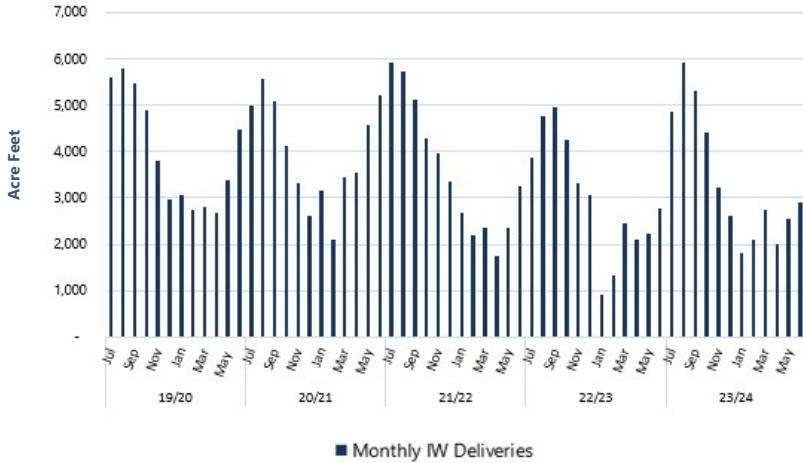
The changes being considered include making the program available in various water supply conditions, not just low SWP deliveries. Also, delivery of the supplies would no longer require an SWP allocation above 40%, but when MWD has sufficient supplies. The item will be brought to the MWD board for a vote in October 2024.



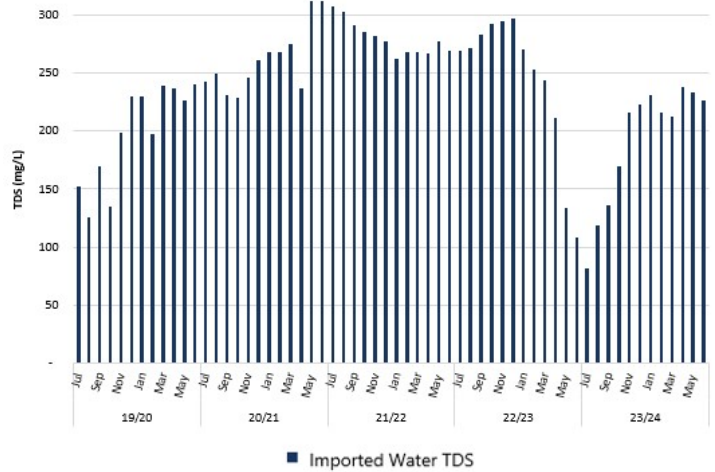
Reverse Cyclic Proposed Modification, September 2024, MWD One Water and Stewardship Committee.

Imported Water

Full Service Imported Water Deliveries Summary
(FY 2019/20 to 2023/24)

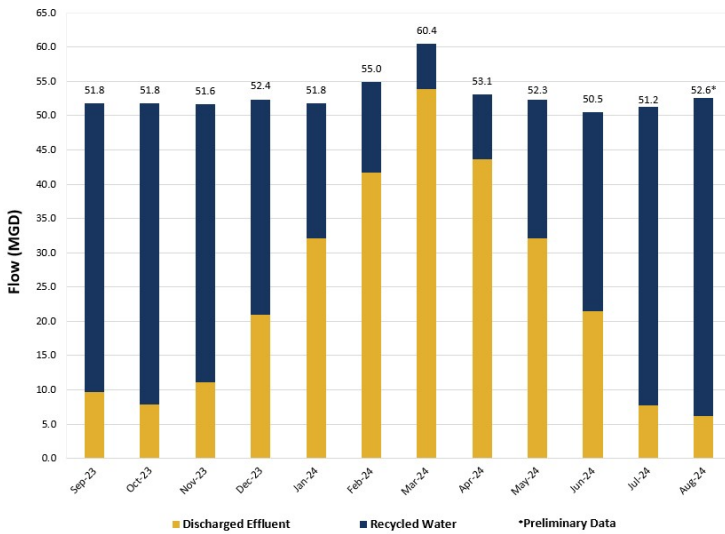


Imported Water TDS Summary
(FY 2019/20 to 2023/24)

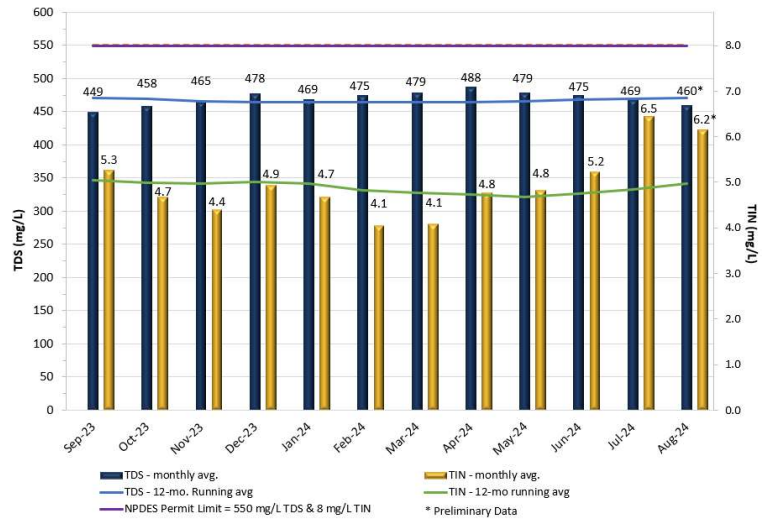


Recycled Water

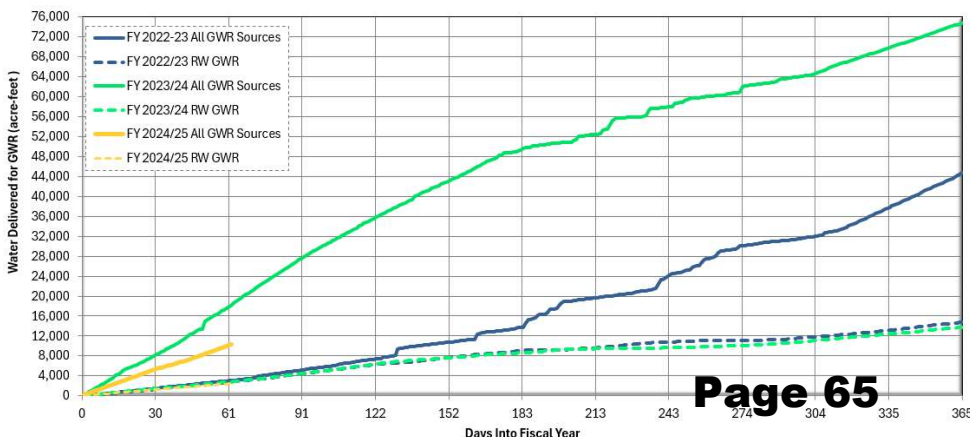
Recycled Water Use



Agency-Wide Effluent TDS & TIN



Groundwater Recharge



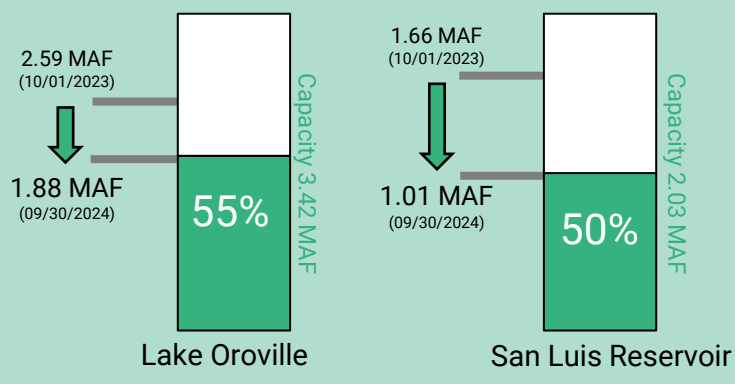
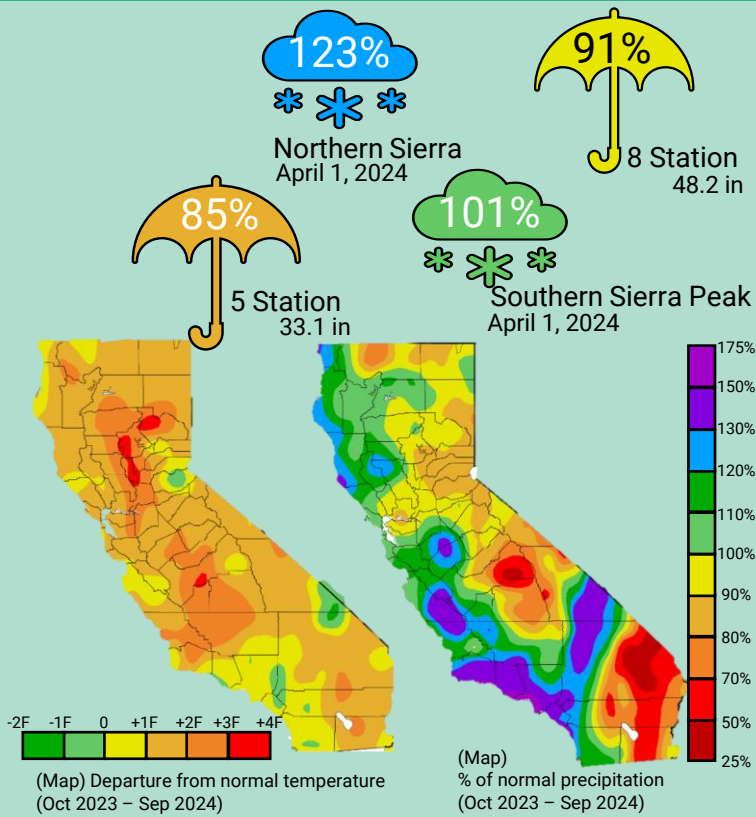
AUGUST 2024 NOTES:

- Total stormwater and dry weather flow recharged was preliminarily estimated at 40.2 acre-feet.
- Recycled water delivered for recharge totaled 1,182 acre-feet.
- There was 3,652 acre-feet of imported water recharged in the Chino Basin from MWD and SAWCo.
- Chino Basin Watermaster removed 4.2% for evaporation losses from delivered supplemental water sources (imported water and recycled water).
- Considering evaporation losses, total recharge was preliminarily estimated at 4,672 acre-feet.



State Water Project

- DEC 2023**
 - Dry fall
 - Initial SWP allocation is 10% Table A
- JAN 2024**
 - 4 atmospheric rivers reach the West Coast
 - Highest 10-day precipitation totals over Northern Sierra
- FEB 2024**
 - SWP allocation increases to 15%
- MAR 2024**
 - 43 atmospheric rivers reached California from Oct to Mar – only 2 strong
 - SWP allocation increases to 30%
- APR 2024**
 - Endangered fish impacted SWP exports in spring
 - SWP allocation increases to 40%
- AUG 2024**
 - 2nd wettest Aug at 8 Station since 2004
- OCT 2024**
 - Fish & Wildlife approved amendment to off-ramp X2 requirement for Oct 2024



Sacramento River Index Runoff (MAF)
Average (1991-2020) - 17.7 MAF

17.6	2023-2024
24.1	2022-2023
10.8	2021-2022
6.4	2020-2021
9.7	2019-2020

San Joaquin Valley Runoff (MAF)
Average (1991-2020) - 5.9 MAF

5.5	2023-2024
13.8	2022-2023
3.2	2021-2022
1.8	2020-2021
3.0	2019-2020



Colorado River

DEC 2023

- Dry fall
- 17.5 million acre-feet stored in Powell and Mead – same as May 2021

JAN 2024

- Precipitation as rain and snow above normal for the first time this water year

MAY 2024

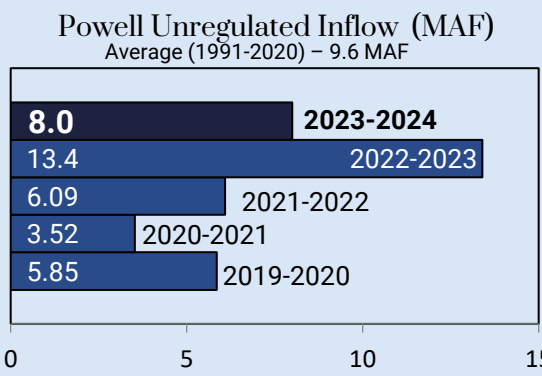
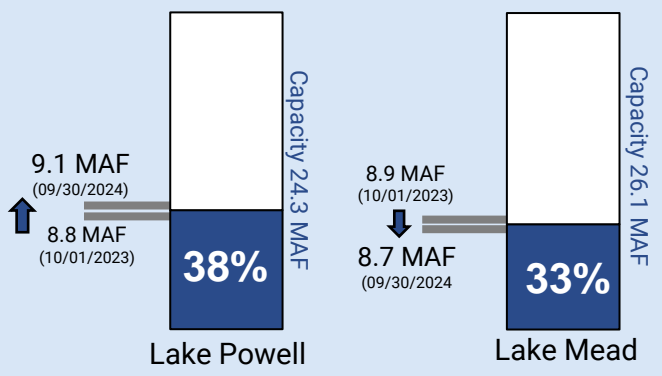
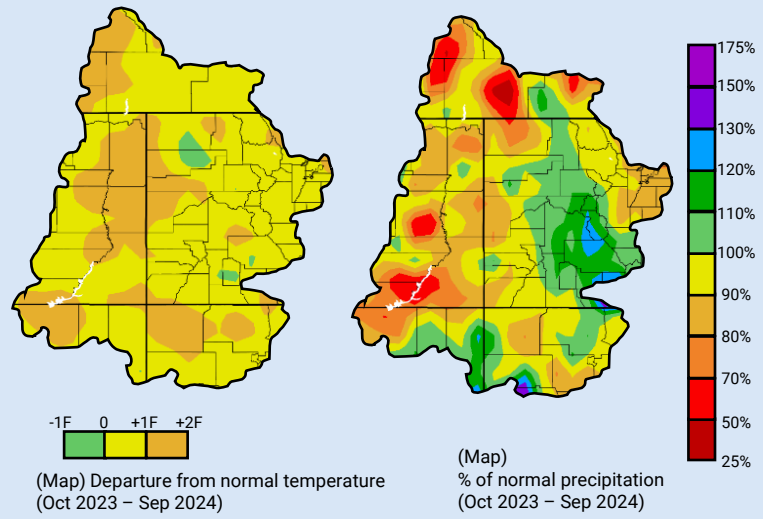
- Secretary of Interior signed the Record of Decision for the Colorado River Interim Guidelines covering 2023-2026
- Reclamation indicates creation of 1.18 million acre-feet of reservoir protection volume in 2023

AUG 2024

- Level 1 shortage for Arizona, Nevada and Mexico set for calendar year 2025
- Imperial Irrigation District implemented a new Deficit Irrigation Program to conserve additional water for system conservation in California

114%
* * *
Basin-wide
April 1, 2024

99%
Basin-wide
29.6 in



Lake Mead – Operating Condition
(August 2024 CRMSS ESP Projections)

	2025	2026	2027*	2028*	2029*
Surplus (above 1,145 ft)	0%	0%	0%	0%	3%
Normal Year (between 1,075 and 1,145 ft)	0%	7%	17%	20%	23%
Shortage					
1st Level (between 1,050 and 1,075 ft)	100%	93%	57%	53%	50%
2nd Level (between 1,025 and 1,050 ft)	0%	0%	27%	13%	13%
3rd Level (below 1,025 ft)	0%	0%	0%	13%	10%



September 25, 2024

To: Inland Empire Utilities Agency
From: Michael Boccadoro
Beth Olhasso
RE: September Report

Overview:

Water levels in San Luis Reservoir have marginally increased over the past few months and now sits at 124 percent of normal for this time of year. The Reservoir saw double digit, month to month declines over the summer. Other reservoirs are getting closer to average as water is moved through the Delta to push salinity for the Delta Smelt in a requirement known as Fall X2. Lake Oroville is sitting at 58 percent capacity, 102 percent of normal; Shasta Lake is sitting at 62 percent of capacity, 109 percent of average; San Luis Reservoir is at 52 percent of capacity.

The Lookout Slough Tidal Habitat Restoration and Flood Improvement Project in Solano County hit another milestone recently by restoring tidal flows to 40,000 acres of wetlands. The project is part of a broader adaptive management strategy in the Delta that helps create native habitat.

The CEQA challenge brought by environmental groups to the environmental documents for Sites Reservoir has been denied by both Yolo County and appellate courts. The project is still working through permits with the Army Corps.

The SWRCB is looking to develop testing methodology to detect the broad spectrum of the PFAS class, rather than testing for 10,000 separate tests. They hope to use the data to then inform regulations for the testing, monitoring and regulation of PFAS in drinking and groundwater.

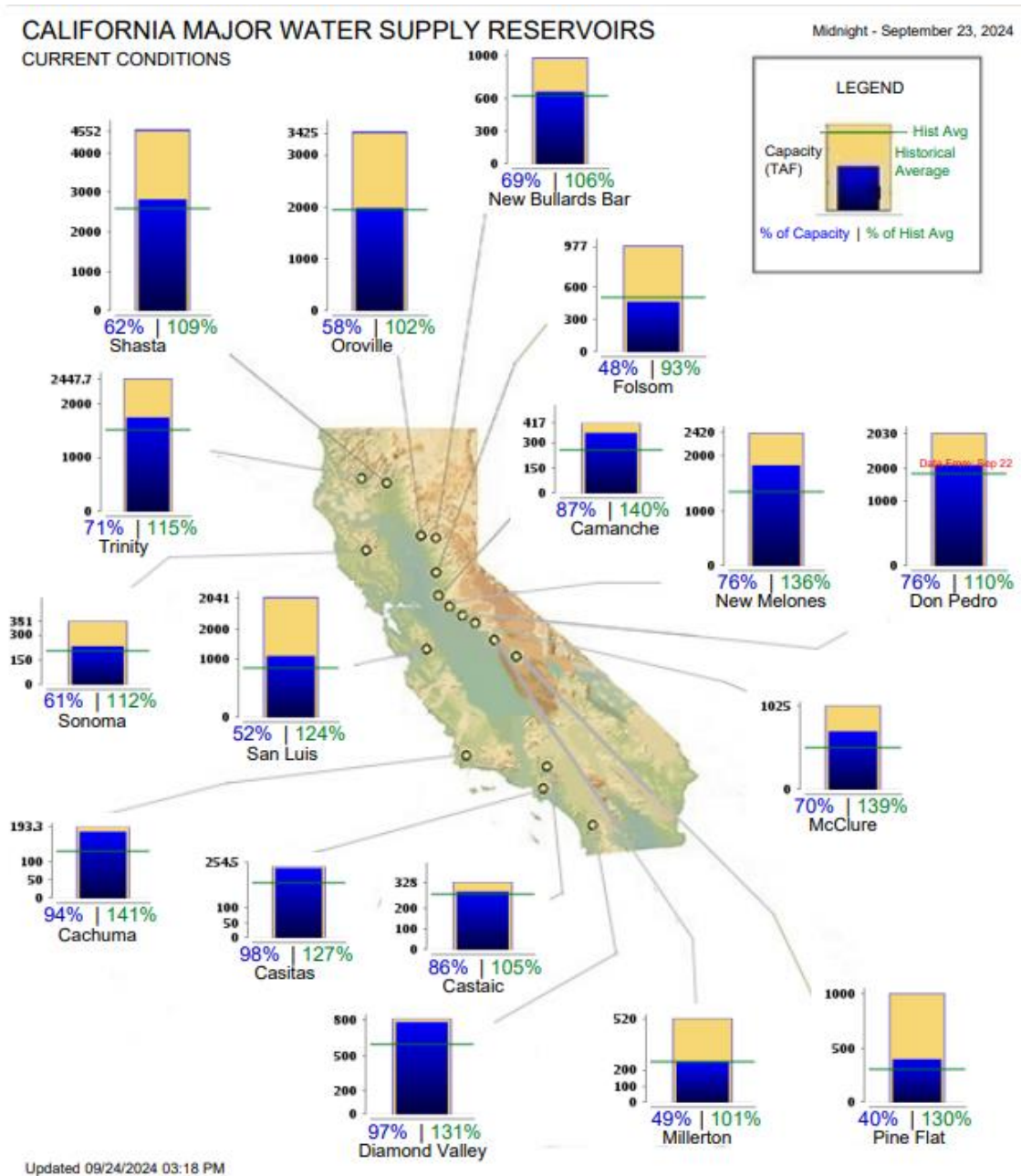
September has been quiet in the legislature, with the legislative session over and the capitol community awaiting the Governor's action on nearly 1500 bills ahead of the September 30th deadline.

The Legislature will return to Sacramento in early December, briefly, to swear in new members and "organize" ahead of the January start of the 2025-26 session.

Inland Empire Utilities Agency Status Report – September 2024

Water Supply Conditions

Water storage levels have weathered the summer with most reservoirs remaining above average as the state starts a new water year on October 1. The consistent drops in storage at San Luis Reservoir stopped over the past month, and the winter carryover storage now appears healthy. Lake Oroville is at 102 percent of average, 58 percent capacity; Shasta is at 109 percent average, 62 percent capacity; San Luis Reservoir is at 124 percent average, and 52 percent capacity.



Progress on Delta Wetlands Restoration

The Lookout Slough Tidal Habitat Restoration and Flood Improvement Project in Solano County recently breached another levee to restore tidal waters to 3,400 acres of habitat for sensitive fish species, while also enhancing flood capacity. Celebrated by the Department of Water Resources (DWR) and Ecosystem Investment Partners (EIP), the project includes a new 25-foot-tall levee that provides 100-year flood protection and has created over 40,000 acre-feet of additional flood storage.

The restoration, which took six years to complete, aims to support fish and wildlife, particularly the Delta smelt, while addressing flood risks. Officials emphasize the project as part of California's broader strategy to balance environmental restoration with water management needs amid increasing climate challenges.

Lookout Slough is one of more than a hundred ongoing projects statewide led or supported by DWR aimed at creating habitat and protecting special status species in California's waterways to help manage the water needs of millions of Californians and balance environmental and ecosystems needs.

Win for Sites Reservoir

A California appellate panel has upheld the environmental report for the Sites Reservoir project, siding with Governor Gavin Newsom against environmental groups including Friends of the River, which argued that the project would harm fish populations and increase greenhouse gas emissions. The group had challenged the report's validity under the California Environmental Quality Act (CEQA), but both a Yolo County Superior Court judge and now the appellate panel found the report sufficient, emphasizing that it did not need to be perfect or scientifically certain.

The ruling, which followed a streamlined legal timeline under a law Newsom signed, supports the \$4 billion project aimed at increasing California's water storage capacity and enhancing ecosystem resilience. Associate Justice Ronald Robie noted that the environmental baseline used in the report was valid and that Friends of the River failed to provide feasible alternatives to the project.

While the ruling is a win for Newsom, the project faces a setback as the U.S. Army Corps of Engineers requires further documentation from the Sites authority for necessary permits, which could delay progress if not submitted promptly.

SWRCB Exploring Efficacy Of Broad-Spectrum PFAS Testing Methods

The State Water Resources Control Board is implementing a multi-stage plan to evaluate broad-spectrum analytical methods for detecting PFAS in drinking water, aiming to regulate over 10,000 specific PFAS as a class rather than individually. This initiative seeks to establish regulations based on total PFAS mass, acknowledging the challenges of identifying health impacts on a chemical-by-chemical basis.

The approach includes developing standardized testing methods, monitoring community water systems, particularly in disadvantaged areas, and using this data to inform future regulations. Currently, SWRCB is testing 4,000 wells in disadvantaged communities and has completed 500 tests, with plans to gather more comprehensive data by 2026.

The SWRCB emphasizes the need for broad-spectrum testing to capture elusive precursor compounds, which can be more toxic than targeted PFAS. While no single method can identify all PFAS, they aim to adopt the most inclusive approaches possible.

Legislative Update

With the Legislative Session over, attention turned to the Governor's actions on the legislation sent to him by the legislature in the final days of the session. The Governor has until September 30 to take final action on bills. There are only a few priority bills for IEUA left on the Governor's desk at the end of session, as many failed passage during the final legislative deliberations.

Connection Fees: The legislature is looking to improve the state's housing crisis by changing the way connection fees are collected. The bill with the most significant concerns for IEUA was SB 1210 (Skinner, D- Berkeley). The bill, as introduced, would have prevented a connection or capacity fee from exceeding one percent of the building permit value and would spread the connection fee collection out over a period of ten years. The bill was recently amended to alleviate the concerns of the water community. The bill has passed both houses and is on the Governor's Desk for final approval.

GUT AND AMEND ALERT: One of the other fee bills IEUA has been tracking is SB 937 (Weiner). IEUA participated in successful coalition efforts early in the legislative session to secure amendments that would limit the impact to connection and capacity fees for water and wastewater. However, in an apparent attempt to satisfy the concerns of remaining opposition, the author amended the bill on August 22 to include language that would create a new and conflicting legal standard for the collection of water and sewer connection and capacity fees and place this new standard in a different, inappropriate section of the Government Code.

Concerns have been raised that the new amendments could be interpreted to only allow fees to be collected in advance for connecting residences to water distribution or sewer collection systems with no certainty that water and wastewater agencies could recover other costs associated with serving the new development including recovering proportional costs for other necessary existing and new infrastructure.

CASA, CSDA and CMUA led the effort to educate members on the concerns with this bill and urged members to not support the legislation. Ultimately, the bill passed both houses and recently received the Governor's signature. There is discussion of "clean up" legislation next year.

CA Water Plan: SB 366 (Caballero), CMUA and Western MWD's bill to expand the water plan to include specific water supply targets was amended early in the process to create broader

goals, rather than specific targets. The bill is still a good step to help focus DWR on increasing water supply. The bill passed and is one of the final bills awaiting final action by the Governor before the September 30 deadline.

IEUA BILLS— September 30, 2024- FINAL ACTION

Bill Number	Author/Sponsor	Title and/or Summary	Summary	IEUA Position/ Bill Location	Positions Taken by Associations & Regional Agencies
Bills With Positions					
AB 1820	Schiavo (D)	Housing development projects: applications: fees and exactions.	This bill would authorize a development proponent that submits a preliminary application for a housing development project to request a preliminary fee and exaction estimate, as defined, and would require the local agency to provide the estimate within 20 business days of the submission of the preliminary application. For development fees imposed by an agency other than a city or county, the bill would require the development proponent to request the fee schedule from the agency that imposes the fee.	NEUTRAL Signed by Governor	ACWA- Neutral
AB 2079	<i>Bennett (D)</i>	<i>Groundwater extraction: large-diameter, high-capacity wells: permits.</i>	<i>This bill would require a local enforcement agency, as defined, to perform specified activities at least 30 days before determining whether to approve a permit for a new large-diameter, high-capacity well, as defined. By imposing additional requirements on a local enforcement agency, the bill would impose a state-mandated local program.</i>	<i>NEUTRAL</i> <i>Failed in Senate Natural Resources & Water</i>	<i>ACWA oppose unless amended</i>
SB 366	Caballero (D) CMUA	<i>The California Water Plan: long-term supply targets</i>	<i>This bill would revise and recast certain provisions regarding The California Water Plan to, among other things, require the department to instead establish a stakeholder advisory committee and to expand the membership of the committee to include tribes, labor, and environmental justice interests. The bill would require the department, in coordination with the California Water Commission, the State Water Resources Control Board, other state and federal agencies as appropriate, and the stakeholder advisory committee to develop a comprehensive plan for addressing the state's water needs and meeting specified long-term water supply targets established by the bill for purposes of "The California Water Plan."</i>	<i>SUPPORT</i> <i>Vetoed by Governor</i>	<i>ACWA support SCWC Support</i>
SB 903	Skinner (D)	<i>Environmental health: product safety: PFOA & PFAS</i>	<i>This bill would, beginning January 1, 2030, prohibit a person from distributing, selling, or offering for sale a product that contains intentionally added PFAS, as defined, unless the Department of Toxic Substances Control has made a determination that the use of PFAS in the product is a currently unavoidable use, the prohibition is preempted by federal law, or the product is used.</i>	<i>SUPPORT</i> <i>HELD Senate Appropriations Committee</i>	<i>CASA Sponsor ACWA Support</i>
SB 937	Wiener	Development projects: permits and other entitlements: fees and charges	This bill would extend by 24 months the period for the expiration, effectuation, or utilization of a housing entitlement, entitlement for a priority residential development project, as those terms are defined, that was issued before January 1, 2024, and that will expire before December 31, 2025, except as specified. The bill would toll this 24-month extension during any time that the housing entitlement is the subject of a legal challenge. By adding to the duties of local officials with respect to housing entitlements, this bill would impose a state-mandated local program. The bill would include findings that changes proposed by this bill address a	Oppose Signed by Governor	ACWA Neutral

Note: Bills in Italics have failed and will not continue in 2024.

			matter of statewide concern rather than a municipal affair and, therefore, apply to all cities, including charter cities.		
SB 1210	Skinner (D)	New housing construction: electrical, gas, sewer, and water service connections: charges	This bill would, for new housing construction, require the above-described utilities, on or before January 1, 2026, to publicly post on their internet websites (1) the schedule of fees for a service connection, capacity, or other point of connection charge for each housing development type, including, but not limited to, accessory dwelling unit, mixed-use, multifamily, and single-family developments, except as specified, and (2) the estimated timeframes for completing typical service connections needed for each housing development type, as specified. The bill would exempt from its provisions an independent special district that does not maintain an internet website due to a hardship, as provided. To the extent that this bill imposes new requirements on certain local agencies, the bill would impose a state-mandated local program. This bill contains other related provisions and other existing laws.	Neutral Signed by Governor	ACWA, CMUA Neutral
SB 1218	Newman (D)	<i>Water: emergency water supplies</i>	<i>This bill would declare that it is the established policy of the state to encourage and incentivize, but not mandate, the development of emergency water supplies, and to support their use during times of water shortage.</i>	<i>SUPPORT Failed in Assembly Appropriations</i>	<i>IRWD Sponsor SCWC Support</i>
SB 1255	Durazo (D)	<i>Public water systems: needs analysis: water rate assistance program.</i>	<i>This bill would require qualified systems, defined as any retail water supplier that serves over 3,300 residential connections, to begin providing water rate assistance to eligible ratepayers, defined to mean a low-income residential ratepayer with an annual household income that is no greater than 200% of the federal poverty guideline level, on or before April July 1, 2027. The bill would require a qualified system to automatically enroll an eligible ratepayer in the water rate assistance program</i>	<i>OPPOSE UNLESS AMENDED Failed in Assembly Appropriations</i>	<i>ACWA, CMUA Oppose Unless Amended</i>
Priority Watch Bills					
AB 817	Pacheco (D)	<i>Open meetings: teleconferencing: subsidiary body</i>	<i>This bill, until January 1, 2026, would authorize a subsidiary body, as defined, to use similar alternative teleconferencing provisions and would impose requirements for notice, agenda, and public participation, as prescribed. In order to use teleconferencing pursuant to this act, the bill would require the legislative body that established the subsidiary body by charter, ordinance, resolution, or other formal action to make specified findings by majority vote, before the subsidiary body uses teleconferencing for the first time and every 12 months thereafter.</i>	<i>Failed Senate Local Gov Comm.</i>	<i>ACWA Support</i>
AB 1573	Friedman (D)	<i>Water conservation: landscape design: model ordinance</i>	<i>This bill would require the updated model ordinance to include provisions that require that plants included in a landscape design plan be selected based on their adaptability to climatic, geological, and topographical conditions of the project site, as specified. The bill would also exempt landscaping that is part of a culturally specific project, as defined, ecological restoration projects that do not require a permanent irrigation system, mined-land reclamation projects that do not require a permanent irrigation system, and existing plant collections, as part of botanical gardens and arboretums open to the public, from the model ordinance. The</i>	<i>TWO YEAR BILL Inactive File</i>	<i>ACWA- Oppose unless amended</i>

Note: Bills in Italics have failed and will not continue in 2024.

			<i>bill would require the updated model ordinance to include provisions that, among other changes, prohibit the use of traditional overhead sprinklers on all new and rehabilitated landscapes and require that new and rehabilitated landscapes use only water efficient irrigation devices.</i>		
AB 1827	Papan (D)	Local government: fees and charges: water: higher-consumptive water parcels.	This bill would provide that the fees or charges for property-related water service imposed or increased, as specified, may include the incrementally higher costs of water service due to specified factors, including the higher water usage demand of parcels. The bill would provide that the costs associated with higher water usage demands, the maximum potential water use, or a projected peak water usage demand may be allocated using any method that reasonably assesses the water service provider's cost of serving those parcels that are increasing potential water usage demand, maximum potential water use, or project peak water use demand. The bill would declare that these provisions are declaratory of existing law. This bill contains other existing laws.	Signed by Governor	IRWD Sponsor ACWA, SCWC Support
AB 2257	Wilson (D)	Local government: property-related water and sewer fees and assessments: remedies.	This bill would prohibit, if a local agency complies with specified procedures, a person or entity from bringing a judicial action or proceeding alleging noncompliance with the constitutional provisions for any new, increased, or extended fee or assessment, as defined, unless that person or entity has timely submitted to the local agency a written objection to that fee or assessment that specifies the grounds for alleging noncompliance, as specified. This bill would provide that local agency responses to the timely submitted written objections shall go to the weight of the evidence supporting the agency's compliance with the substantive limitations on fees and assessments imposed by the constitutional provisions. The bill would also prohibit an independent cause of action as to the adequacy of the local agency's responses. This bill contains other related provisions and other existing laws.	Signed by Governor	ACWA Sponsored bill
AB 2515	Papan (D)	Menstrual products: perfluoroalkyl and polyfluoroalkyl substances (PFAS)	This bill would similarly prohibit any person from selling in the state any menstrual products that contain regulated PFAS, as defined. The bill would require, no later than January 1, 2027, the Department of Toxic Substances Control (DTSC), in consultation with the State Department of Public Health, to identify and assess the hazards of chemicals or chemical classes that can provide the same or similar function in menstrual products as regulated PFAS and that can impact vulnerable populations and to make this information publicly available on the DTSC's internet website. The bill would authorize the department to adopt regulations, as specified, for the purposes of implementing and enforcing these provisions. The bill would make a violation of these provisions punishable by civil fines, as specified, and would make any fine or order by the department appealable to the Board of Environmental Safety. The bill would create, and would require all fines collected by the department to be deposited in, the T.A.M.P.O.N. Act Fund. The bill would also authorize any person to bring an action in superior court for a violation of this prohibition, and would authorize the court to grant injunctive relief. This bill contains other existing laws.	Signed by Governor	

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AB 2729	Patterson, Joe (R)	Residential Fees and Charges	Existing law prohibits a local agency that imposes fees or charges on a residential development for the construction of public improvements or facilities from requiring the payment of those fees or charges until the date of the final inspection or the date the certificate of occupancy is issued, whichever occurs first, except that the payment may be required sooner if the local agency determines that the fees or charges will be collected for public improvements or facilities for which an account has been established and funds appropriated and for which the local agency has adopted a proposed construction schedule or plan prior to final inspection or issuance of the certificate of occupancy, or if the fees or charges are to reimburse the local agency for expenditures previously made. This bill would delete the above-described authorization for a local agency to require payment of fees or charges prior to the date of final inspection or issuance of the certificate of occupancy, whichever occurs first.	Signed by Governor	
AB 2875	Friedman (D)	Wetlands: state policy	This bill would declare that it is the policy of the state to ensure no net loss and long-term gain in the quantity, quality, and permanence of wetlands acreage and values in California. The bill would make related legislative findings and declarations.	Signed by Governor	
AB 3121	Hart (D) Petrie-Norris	Urban retail water suppliers: written notice: conservation order: dates.	This bill would instead provide that the date the board is authorized to issue a written notice to January 1, 2026 and a conservation order to January 1, 2027.	Senate Energy Committee.	Bill was gutted in the final days of session and replaced with language on electricity rates.
SB 1110	Ashby (D)	Urban retail water suppliers: informational order: conservation order	This bill would require the board to additionally consider lower cost actions the water supplier has implemented or will implement in order to help the water supplier achieve overall water supply resiliency in determining whether to issue an informational order. This bill contains other related provisions and other existing laws.	Held in Assembly Appr	ACWA Favor
SB 1147	Portantino (D)	Drinking water: bottled water: microplastics levels	This bill would require, among other things, the Office of Environmental Health Hazard Assessment (OEHHA) to study the health impacts of microplastics in drinking water, including bottled water, in order to evaluate and identify safe and unsafe levels of microplastics in those types of water, and, on or before January 1, 2026, to develop and deliver to the state board, among other things, public health standards and goals for a safe level of microplastics in those waters. The bill would require the state board, on or before January 1, 2028, to adopt and implement those public health standards and goals developed and delivered by OEHHA, and to provide those public health standards and goals to local water agencies, along with other specified information provided by OEHHA. The bill would also require the state board to establish testing and reporting	Signed by Governor	ACWA & CASA neutral

Note: Bills in Italics have failed and will not continue in 2024.

			requirements for an annual testing of microplastics in bottled water sold in or into this state, as specified.		
<i>SB 1330</i>	<i>Archuleta (D)</i>	<i>Urban retail water supplier: water use</i>	<i>This bill would require the board to adopt variances recommended by the department for unique uses that can have a material effect on an urban retail water supplier's urban water use objective. The bill would provide that variances adopted by the board shall not be subject to a threshold of significance. The bill would require an urban retail water supplier to self-certify the amount of water included in its urban water use objective that is attributable to a variance.</i>	<i>Held in Assm. Appropriations Comm</i>	<i>ACWA Support</i>
<i>SB 1390</i>	<i>Caballero (D)</i>	<i>Groundwater recharge: floodflows: diversion</i>	<i>This bill would extend the operation of these requirements to diversions commenced before January 1, 2034. The bill would revise, recast, and expand the conditions that are required to be met to include a requirement that a local or regional agency make a declaration that its proposed diversion is in accordance with one of certain enumerated plans relating to flood control or flood risk, as specified, or a county emergency operations plan. The bill would also require the final report to contain information, if applicable, describing the forecasting models used to determine a likely imminent escape of surface water and a description of the methodology used to determine the abatement of flood conditions.</i>	<i>Failed on Assm. Floor</i>	
<i>SB 1402</i>	<i>Min (D)</i>	<i>30x30 goal: state agencies: adoption, revision, or establishment of plans, policies, and regulations</i>	<i>This bill would require all state agencies, departments, boards, offices, commissions, and conservancies to consider the 30x30 goal when adopting, revising, or establishing plans, policies, and regulations.</i>	<i>Held in Assm. Appropriations Comm</i>	

Note: Bills in Italics have failed and will not continue in 2024.

Inland Empire Utilities Agency, a Municipal Water District Federal Update

September 25, 2024

FY25 Appropriations Update

House and Senate appropriators introduced a [Continuing Resolution](#) (CR) to keep federal agencies funded through December 20th. The CR includes additional funding for the Secret Service as well as the Presidential Transition. Additionally, the CR extends several expiring authorizations including the Temporary Assistance for Needy Families (TANF) and the National Flood Insurance Program (NFIP). While the CR does not provide any additional funding for the Federal Emergency Management Service (FEMA), it does include language to allow FEMA to spend at a faster rate to respond to disasters during the duration of the CR. Speaker Mike Johnson (R-LA) acknowledged that while the clean CR is not ideal for House Republicans, it is the most prudent option under the circumstances to avoid a government shutdown. The House Republican leadership will need bipartisan support to pass the bill, as conservative Republicans seek votes on the SAVE Act, a bill that would require voters to provide proof of U.S. citizenship before casting a ballot in federal elections, which is not included in the CR. The Senate is expected to pass the CR as lawmakers look to avoid a shutdown and focus on reelection. Looking ahead, the November elections will likely influence the final Fiscal Year (FY) 25 appropriations bill, and Congress will also need to address key issues like the annual defense authorization bill and the farm bill during the lame-duck session.

CONGRESSIONAL ACTIVITY

California Representatives Request State Emergency for Bridge Fire. California Representatives Judy Chu (D), Grace Napolitano (D), and Jay Obernolte (R) sent a [letter](#) to California Governor Gavin Newsom requesting a State Emergency declaration to assist the response to the Bridge Fire in Los Angeles and San Bernadino Counties. The Bridge Fire began September 8th in the Angeles National Forest and spread rapidly prompting mandatory evacuation orders and overwhelming local emergency response services.

FEDERAL FUNDING OPPORTUNITIES

DOE Announces \$3 Million ISEED Initiative. The Department of Energy (DOE) [announced](#) the Industrial Sustainability, Energy Efficiency, and Decarbonization (ISEED) Collaborative, a \$3 million initiative focused on industry cross-collaboration to develop and disseminate instructional curricula and training programs focused on sustainability decarbonizing industrial practices. Applications are due by November 1st.

EPA Releases \$78 Million SWIFR NOFOs. EPA released two NOFOs for the availability of \$78 million through the Solid Waste Infrastructure for Recycling (SWIFR) grant program. The [first NOFO](#) is for Political Subdivisions of States and Territories with \$58 million in funding and the [second NOFO](#) is for Tribal Governments and Consortia with \$20 million available. Funding will support projects that improve or transform water and materials management infrastructure. Applications for the Political Subdivisions of States and Territories opportunity are due by December 20th and applications for the Tribal Governments are due by March 14th.

EPA Releases REO NOFO. EPA released a [NOFO](#) for \$39 million through the Recycling Education and Outreach (REO) Grant Program. Funding will support coalition applicants that include: 1) a project to develop a national consumer food waste reduction campaign; 2) a project that will increase the sales of compost; and 3) a project that will increase education and outreach to households on composting. Applications are due by December 20th.

Reclamation Releases Small Storage Program NOFO. The Bureau of Reclamation (Reclamation) announced a \$43.5 million [NOFO](#) for the Small Surface Water and Groundwater Storage Projects Program. The program funds enhancements to municipal and irrigation water supplies to ensure resilience of water systems during droughts and other hazardous conditions. Applications are due by December 12th.

GRANT AWARD ANNOUNCEMENTS

DOE Announces \$62 Million for Clean Hydrogen Infrastructure Development. DOE [announced](#) \$62 million for 20 projects in 15 states to support research, development, demonstration, and deployment of clean hydrogen infrastructure. Projects selected focus on hydrogen fueling infrastructure, deployment of heavy-duty hydrogen-powered vehicles, and for industry-wide technical development.

DOE Announces \$90 Million for RECI Program. DOE [announced](#) \$90 million for 25 projects in 17 states through the Resilient and Efficient Codes Implementation (RECI) initiative. The funding will support workforce development, community engagement, and research and development to assist building code upgrade activities.

EPA Awards \$15 Million in PFAS Research Grants. EPA [announced](#) \$15 million to ten research institutions for projects reduce per-and polyfluoroalkyl substances (PFAS) exposure from food. The projects will collect PFAS bioaccumulation data in agricultural plants and livestock and explore strategies for reducing PFAS exposure. Research teams will investigate topics including how PFAS accumulates in crops and livestock; the effects of biosolids, compost, and irrigation water on PFAS plant uptake and accumulation; and strategies to reduce the risks of PFAS contamination in the food supply.

Reclamation Awards \$2 Million through Facilitated Adoption Program. Reclamation [announced](#) \$2 million in awards for the Facilitated Adoption Program. The funding supports research and development initiatives focused on environmental and economical solutions to

water management challenges. Most of the projects are collaborative efforts between federal, state, and local governments, universities, and private organizations.

FEDERAL AGENCY REGULATORY ACTIONS

President Biden Signs EO on Prioritizing Union Labor for Federally Funded Projects. President Joe Biden signed an Executive Order (EO) titled “[Executive Order on Investing in American and Investing in American Workers](#).” The EO directs federal agencies to prioritize union involvement when making funding decisions for programs authorized in the American Rescue Plan Act, the Bipartisan Infrastructure Law, the Inflation Reduction Act, and the CHIPS Act.

EPA Finalizes Engagement and Public Participation Policy for Agency Decision-Making. EPA released the final version of its [Achieving Health and Environmental Protection Through EPA’s Meaningful Engagement Policy](#). The three main steps in the new policy are: 1) understanding EPA actions and key issues the public can inform; 2) identifying the expected level of participation using EPA’s public participation spectrum; and 3) identifying the appropriate engagement tools and practices using EPA’s public participation model.

Reclamation and EPA Propose BABA Waiver for AMI Meters. Reclamation released a [proposed Build America, Buy America \(BABA\) Act waiver](#) for Advanced Metering Infrastructure (AMI) water meters. The waiver as proposed would provide coverage for purchases of AMI water meters for three years, using a phased approach. This proposed waiver was drafted in partnership with EPA and will apply to projects funded by both BOR and EPA.

Treasury Proposes New Technology Neutral Clean Energy Tax Credit. The Department of the Treasury (Treasury) proposed [new clean energy tax credits for low-income areas](#) that are technology neutral as opposed to focused on solar and wind resources. The 48(e) low-income tax credit was finalized in 2023 for wind and solar installation by developers and it will sunset in 2025. The proposed 48E(h) credit would allow developers to claim investments in geothermal, hydropower, nuclear, and other low-carbon energy resources through the tax credit beginning in 2026. Comments are due by October 3rd and Treasury is hosting a public hearing on the proposal on October 17th at 10 am ET.

FEDERAL AGENCY ANNOUNCEMENTS AND PERSONNEL CHANGES

CEQ Announces New Clean Energy Director. The Council on Environmental Quality (CEQ) announced that Dan Delurey will serve as Director for Clean Energy in CEQ’s Office of the Federal Chief Sustainability Officer. He previously served as a Senior Fellow for Energy at Vermont Law and Graduate School.

DOL Releases Compliance Assistance Release on Cybersecurity. DOL announced a new [Compliance Assistance Release](#) from the Employee Benefits Security Administration that provides best cybersecurity practices for all types of plans governed by the Employee Retirement Income Security Act, including health, welfare, and employee retirement benefit plans. Updated guidance includes Tips for Hiring a Service Provider, Cybersecurity Program Best Practices, and Online Security Tips.

EPA Releases CRAFT Federal Funding Tool. EPA released a new online tool called the [Climate Resilience and Adaptation Funding Toolbox](#) (CRAFT). CRAFT is intended to be a resource for federal funding applicants to develop, apply for, and implement climate-resilient investments. The new website includes program overviews, climate risk tools, communications materials, engagement resources, and definitions of commonly used terms.

EPA Updates ECHO Database to Add Water Quality Indicators Tool. EPA updated the Enforcement and Compliance History Online (ECHO) website to include the new [Water Quality Indicators](#) tool. The new tool allows users to compare data records from water monitoring stations to help identify potential sources contributing to water quality problems.

EPA Launches Outdoor Use Safer Choice Label. EPA launched a new labeling program called the [Outdoor Use Safer Choice](#) label to help identify outdoor use products that meet additional EPA criteria as environmentally friendly. Each ingredient in labeled products is examined to ensure safety and outdoor products are further required to include ingredients that break down quickly and have lower aquatic toxicity.

EPA Releases Interagency Water Workforce Working Group Report to Congress. EPA released the [2024 Interagency Water Workforce Working Group Report to Congress](#), identifying challenges facing the water workforce. The challenges include recruitment, training, retention, and partnerships and the report provides a framework for water agencies to address these challenges. The report also identifies examples of utilities, communities, and organizations implementing these strategies for practical implementation of the framework provided by EPA.

FEMA Publishes BRIC Summary of 2023 Stakeholder Engagement. FEMA published a report titled [2023 Stakeholder Engagement Report: Building Resilient Infrastructure and Communities \(BRIC\)](#) that reflects the comments of over 4,000 stakeholders. The report provides FEMA with the opportunity to incorporate program recommendations for the BRIC program as communities implement hazard mitigation projects. Another stakeholder engagement opportunity is planned for 2026.

Reclamation Joins Integrated Water Resources Science and Services. Reclamation is joining the Integrated Water Resources Science and Services, a federal water management partnership that consists of USACE, the U.S. Geological Survey, NOAA, and FEMA. The [agreement](#) will allow the participating agencies to work together on sharing water information more efficiently, developing new ways to estimate and map water conditions from floods to droughts, and collaboratively enhancing capabilities to reduce water management risk, increase resilience and support water resource development.

Reclamation Announces New Director of the Office of Program and Budget. Reclamation announced that Beth Hughes-Brown will serve as Director of the agency's Office of Program and Budget. The office handles \$3 billion in appropriated funding annually to support Reclamation's more than 5,400 employees.

##

Project Status: Wineville/Jurupa/RP3 Basin Improvements (Project 23a)

Budget:

- Authorized capital budget: \$28,846,016

Available Funding:

- \$15.4 M in SRF Loan at 0.55%
- \$10.8 M is State and Federal Grants

Progress:

- Construction 85% completed

Pending Completion:

- Electrical wiring & SCE work
- Control Programming
- Rubber Dam
- Procuring and installation of Pumps

Current Activities:

- Pipes for Wineville Pumps to arrive in mid-Oct.
 - Planned completion mid-Nov.
- Electrical wiring & SCE work in progress
 - Planned completion October 31, 2024
- Control Programming awaiting electrical
 - Planned completion November 30, 2024
- Received 90% of Rubber Dam equipment
 - Planned Completion November 30, 2024
- Procuring and installation of Pumps
 - See schedule

Updates:

- Finalize the procurement documents for the pumps (see revised schedule)

Detailed Schedule for the Pumps

TASK	START	END
Prepare Solicitation Documents	6-Jun-2024	15-Oct-2024
Draft Documents	6-Jun-2024	22-Aug-2024
Review Documents	23-Aug-2024	28-Aug-2024
Finalize Documents	29-Aug-2024	15-Oct-2024
Request for Qualification of Suppliers	23-Oct-2024	18-Dec-2024
Enter into PlanetBids	23-Oct-2024	23-Oct-2024
Solicitation (Q&A Period)	24-Oct-2024	15-Nov-2024
Final Week of Solicitation	18-Nov-2024	26-Nov-2024
Close Solicitation	26-Nov-2024	26-Nov-2024
Review Responses to the RFQ	27-Nov-2024	3-Dec-2024
Notify Prequalified Suppliers	4-Dec-2024	17-Dec-2024
Begin Submittal Review for Prequalified Suppliers	18-Dec-2024	18-Dec-2024
Submittal Review	1-Jan-2025	18-Mar-2025
First Submittal	1-Jan-2025	15-Jan-2025
Review Initial Submittal	15-Jan-2025	29-Jan-2025
Second Submittal	29-Jan-2025	12-Feb-2025
Review Second Submittal	12-Feb-2025	26-Feb-2025
Final Submittal	26-Feb-2025	12-Mar-2025
Board of Directors' Authorization of PO	12-Mar-2025	18-Mar-2025
Pump Fabrication/Installation/Testing/Close-out	1-Apr-2025	29-Dec-2025
Fabrication (22 weeks)	1-Apr-2025	2-Sep-2025
Delivery	2-Sep-2025	16-Sep-2025
Installation	16-Sep-2025	14-Nov-2025
Testing	14-Nov-2025	15-Dec-2025
Close Out	15-Dec-2025	29-Dec-2025