

CHINO BASIN WATERMASTER



NOTICE OF MEETING

Thursday, October 20, 2022

9:00 a.m. – Advisory Committee Meeting

CHINO BASIN WATERMASTER

Thursday, October 20, 2022

9:00 a.m. – Advisory Committee Meeting

AGENDA

**CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING**

9:00 a.m. – October 20, 2022

Mr. Chris Berch, Chair

Mr. Brian Geye, 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

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:

1. Minutes of the Advisory Committee Meeting held September 15, 2022 *(Page 1)*

B. FINANCIAL REPORTS

Receive and file as presented:

1. Cash Disbursements for the month of August 2022 *(Page 7)*
2. Watermaster VISA Check Detail for the month of August 2022 *(Page 19)*
3. Combining Schedule for the Period July 1, 2022 through August 31, 2022 *(Page 22)*
4. Treasurer's Report of Financial Affairs for the Period August 1, 2022 through August 31, 2022 *(Page 25)*
5. Budget vs. Actual Report for the Period July 1, 2022 through August 31, 2022 *(Page 29)*
6. Cash Disbursements for September 2022 (Information Only) *(Page 52)*

II. BUSINESS ITEMS *(Page 64)*

A. IEUA/JCSD/CBWM COST SHARING AGREEMENT OF BASIN PLAN AMENDMENT ENVIRONMENTAL REVIEW

Approve the cost sharing agreement as presented.

III. REPORTS/UPDATES

A. LEGAL COUNSEL

1. San Bernardino County Superior Court Emergency Order
2. November 3, 2022 Hearing
3. November 18, 2022 Hearing
4. Governor's Executive Order N-7-22
5. Kaiser Permanente Lawsuit
6. Rules and Regulations Update

B. ENGINEER

1. Safe Yield Court Order Implementation
2. Ground-Level Monitoring Committee
3. FY 2021/22 Annual Streamflow Monitoring Report

4. Annual Plume Status Reports

C. CHIEF FINANCIAL OFFICER

None

D. GENERAL MANAGER

1. 2020 OBMP
2. Water Activity Reports
3. Assessment Package
4. Funding Opportunities
5. SNMP Presentation
6. Workshop IV
7. Supplemental Water Tracking Flowchart
8. Other

E. INLAND EMPIRE UTILITIES AGENCY (Page 80)

1. MWD Update (Written)
2. State and Federal Legislative Reports (Written)
3. Community Outreach/Public Relations Report (Written)

F. METROPOLITAN MEMBER AGENCY REPORTS

IV. INFORMATION

1. Chino Airport and South Archibald Plumes Semi-Annual Status Reports (Page 103)
2. Annual Plume Status Reports (Page 120)

V. COMMITTEE 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

10/18/22	Tue	10:00 a.m.	Fiscal Year 2022/2023 Assessment Package Workshop I
10/20/22	Thu	9:00 a.m.	Advisory Committee
10/20/22	Thu	9:30 a.m.	Recharge Investigations & Projects Committee
10/27/22	Thu	9:30 a.m.	Maximum Benefit SNMP Presentation
10/27/22	Thu	11:00 a.m.	Watermaster Board
11/01/22	Tue	10:00 a.m.	Fiscal Year 2022/2023 Assessment Package Workshop II

ADJOURNMENT

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Advisory Committee Meeting held September 15, 2022

DRAFT MINUTES
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE MEETING

September 15, 2022

The Advisory Committee meeting was held at the Watermaster offices located at 9641 San Bernardino Road, Rancho Cucamonga, CA., and via Zoom (conference call and web meeting) on September 15, 2022.

ADVISORY COMMITTEE MEMBERS PRESENT

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

Chris Berch, Chair	Jurupa Community Services District
Courtney Jones	City of Ontario
Chris Diggs	City of Pomona
Eduardo Espinoza for John Bosler	Cucamonga Valley Water District
Josh Swift	Fontana Union Water Company
Cris Fealy	Fontana Water Company
Stephanie Reimer for Justin Scott-Coe	Monte Vista Irrigation Company
Stephanie Reimer for Justin Scott-Coe	Monte Vista Water District
Brian Lee	San Antonio Water Company

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

Dave Crosley	City of Chino
Ron Craig	City of Chino Hills
Braden Yu	City of Upland

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

Brian Geyer, Vice-Chair	California Speedway Corporation
-------------------------	---------------------------------

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

Jeff Pierson, Second Vice-Chair	Crops
---------------------------------	-------

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

Carol Boyd for Pete Hall	State of California
--------------------------	---------------------

WATERMASTER BOARD MEMBERS PRESENT ON ZOOM

Bob Bowcock	Blue Triton Brands Inc.
James Curatalo	Cucamonga Valley Water District
Bob Kuhn	Three Valleys Municipal Water District
Mike Gardner	Western Municipal Water District

WATERMASTER STAFF PRESENT

Peter Kavounas	General Manager
Joseph Joswiak	Chief Financial Officer
Edgar Tellez Foster	Water Resources Mgmt. and Planning Dir.
Anna Nelson	Director of Administration
Justin Nakano	Water Resources Technical Manager
Frank Yoo	Data Services and Judgment Reporting Mgr.
Janine Wilson	Senior Accountant
Denise Morales	Executive Assistant II/Board Clerk
Ruby Favela	Administrative Assistant
Alonso Jurado	Senior Field Operations Specialist
David Huynh	Senior Field Operations Specialist

WATERMASTER CONSULTANTS PRESENT AT WATERMASTER

Andy Malone West Yost

WATERMASTER CONSULTANTS PRESENT ON ZOOM

Brad Herrema Brownstein Hyatt Farber Schreck, LLP
Garrett Rapp West Yost

OTHERS PRESENT AT WATERMASTER

Jiwon Seung Cucamonga Valley Water District
Andy Campbell Inland Empire Utilities Agency
Bryan Smith Jurupa Community Services District

OTHERS PRESENT ON ZOOM

Natalie Avila City of Chino
Christopher Quach City of Ontario
Nicole deMoet City of Upland
Amanda Coker Cucamonga Valley Water District
Rob Hills Cucamonga Valley Water District
Randall Reed Cucamonga Valley Water District
Tarren Alicia Torres Egoscue Law Group, Inc.
Christiana Daisy Inland Empire Utilities Agency
Manny Martinez Monte Vista Water District
Kevin O'Toole Orange County Water District
John Lopez Santa Ana River Water Company
Bill Wyatt Sheppard, Mullin, Richter & Hampton
David De Jesus Three Valleys Municipal Water District
Sylvie Lee Three Valleys Municipal Water District
Laura Roughton Western Municipal Water District
Richard Rees Wood plc

CALL TO ORDER

Chair Berch called the Advisory Committee meeting to order at 9:00 a.m.

ROLL CALL

(0:00:15) Ms. Morales conducted the roll call and announced that a quorum was present.

AGENDA – ADDITIONS/REORDER

I. CONSENT CALENDAR

Note: 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:

1. Minutes of the Advisory Committee Meeting held August 18, 2022

B. FINANCIAL REPORTS

Receive and file as presented:

1. Cash Disbursements for the month of July 2022
2. Watermaster VISA Check Detail for the month of July 2022
3. Combining Schedule for the Period July 1, 2022 through July 31, 2022

4. Treasurer's Report of Financial Affairs for the Period July 1, 2022 through July 31, 2022
5. Budget vs. Actual Report for the Period July 1, 2022 through July 31, 2022
6. Cash Disbursements for August 2022 (Information Only)

C. APPLICATION: WATER TRANSACTION

Provide advice and assistance to the Watermaster Board on the proposed transaction:
The purchase of 708.3 acre-feet of water from West End Consolidated Water Company by City of Upland. This purchase is made from West End Consolidated Water Company's Excess Carryover Account. City of Upland is utilizing this transaction to produce its West End Consolidated Water Company shares.

D. APPLICATION: WATER TRANSACTION

Provide advice and assistance to the Watermaster Board on the proposed transaction:
The purchase of 66.4 acre-feet of water from West End Consolidated Water Company by Golden State Water Company. This purchase is made from West End Consolidated Water Company's Annual Production Right. Golden State Water Company is utilizing this transaction to produce its West End Consolidated Water Company shares.

E. APPLICATION: WATER TRANSACTION

Provide advice and assistance to the Watermaster Board on the proposed transaction:
The purchase of 440 acre-feet of water from City of Upland by Golden State Water Company. This purchase is made from City of Upland's Annual Production Right

F. OBMP SEMI-ANNUAL STATUS REPORT 2022-1

Recommend to the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2022-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

(0:03:14)

Motion by Vice-Chair Brian Geye, seconded by Mr. Chris Diggs, and passed unanimously.

Moved to approve the Consent Calendar as presented.

II. BUSINESS ITEMS

A. SAFE YIELD RESET METHODOLOGY UPDATE

Provide recommendation and advice to the Watermaster Board regarding the filing of the updated Safe Yield Reset Methodology with the Court.

(0:04:02) Mr. Kavounas prefaced the item and handed off to Mr. Rapp who gave a presentation. A discussion ensued.

(1:02:13)

Motion by Mr. Chris Diggs, seconded by Mr. Josh Swift, and passed by majority 65.344 volume votes as attached to these minutes.

Moved that Watermaster should move forward with the Safe Yield Reset Methodology Update with the understanding that, through a process, Watermaster can agree to modifications proposed by a Pool or party in the future.

III. REPORTS/UPDATES

A. LEGAL COUNSEL

1. San Bernardino County Superior Court Emergency Order
2. September 30, 2022 Hearing
3. Motion Challenging Watermaster's Budget Action To Fund Unauthorized CEQA Review
4. Governor's Executive Order N-7-22
5. Kaiser Permanente Lawsuit
6. Rules and Regulations Update

(1:09:31) Mr. Herrema gave a report.

B. ENGINEER

1. Ground-Level Monitoring Committee Update

(1:11:51) Mr. Malone gave a report.

C. CHIEF FINANCIAL OFFICER

None

D. GENERAL MANAGER

1. 2020 OBMP
2. SNMP Presentation Date – October 27, 2022 at 9:30am
3. Workshop IV
4. Supplemental Water Flowchart
5. 2023 RMPU
6. Water Activity Reports
7. Other

(1:12:34) Mr. Kavounas reported that there were no changes from what had been reported to the Pool Committees last week. A discussion ensued.

E. INLAND EMPIRE UTILITIES AGENCY

1. Groundwater Recharge Update (Oral Report)
2. MWD Update (Written)
3. State and Federal Legislative Reports (Written)
4. Community Outreach/Public Relations Report (Written)

(1:14:43) Mr. Andy Campbell gave a presentation. A discussion ensued.

F. METROPOLITAN MEMBER AGENCY REPORTS

IV. COMMITTEE MEMBER COMMENTS

None

V. OTHER BUSINESS

None

ADJOURNMENT

Chair Berch adjourned the Advisory Committee meeting at 10:32 a.m.

Secretary: _____

Approved: _____

Attachments:

1. 20220915 Volume Vote Outcome for Business Item II.A. (Safe Yield Reset Methodology Update)

**QUORUM
MET?
YES**



2022 ADVISORY COMMITTEE VOLUME VOTE
Assessment Year 2021-2022 (Production Year 2020-2021)

Enter Y or N in Each Cell

Party	Present (Y/N)	Vote (Y/N)	Assigned	Reallocated	Available	Quorum	Total Yes
Minor 1	Y	N	3.399	0.000	3.399	3.399	0.000
Minor 2	Y	N	3.399	0.000	3.399	3.399	0.000
Chino Hills, City Of	Y	Y	2.700	0.000	2.700	2.700	2.700
Chino, City Of	Y	N	4.170	0.000	4.170	4.170	0.000
Cucamonga Valley Water District	Y	Y	5.400	0.000	5.400	5.400	5.400
Fontana Union Water Company	Y	Y	4.371	0.000	4.371	4.371	4.371
Fontana Water Company	Y	Y	5.652	0.000	5.652	5.652	5.652
Jurupa Community Services District	Y	Y	6.828	0.000	6.828	6.828	6.828
Monte Vista Water District	Y	N	7.141	0.000	7.141	7.141	0.000
Ontario, City Of	Y	N	16.548	0.000	16.548	16.548	0.000
Pomona, City Of	Y	Y	12.365	0.000	12.365	12.365	12.365
Upland, City Of	Y	Y	3.027	0.000	3.027	3.027	3.027
AGRICULTURAL POOL	Y	Y	20.000	0.000	20.000	20.000	20.000
NON-AGRICULTURAL POOL	Y	Y	5.000	0.000	5.000	5.000	5.000
			100.000	0.000	100.000	100.000	65.344

CALCULATE QUORUM

CALCULATE VOTES

RESET ALL

RESET VOTES

"YES" VOTES
65.344%

"NO" VOTES
34.656%

PASSED

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of August 2022
2. Watermaster VISA Check Detail for the month of August 2022
3. Combining Schedule for the Period July 1, 2022 through August 31, 2022
4. Treasurer's Report of Financial Affairs for the Period August 1, 2022 through August 31, 2022
5. Budget vs. Actual Report for the Period July 1, 2022 through August 31, 2022
6. Cash Disbursements for September 2022 (Information Only)



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022
TO: Advisory Committee Members
SUBJECT: Cash Disbursement Report - Financial Report B1 (August 31, 2022)
(Consent Calendar Item I.B.1.)

SUMMARY

Issue: Record of Cash Disbursements for the month of August 2022. [Normal Course of Business]

Recommendation: Receive and file Cash Disbursements for August 2022 as presented.

Financial Impact: Funds disbursed were included in the FY 2022/23 "Amended" Watermaster Budget.

Future Consideration

Advisory Committee – October 20, 2022: Receive and File

Watermaster Board – October 27, 2022: Receive and File

ACTIONS:

Appropriative Pool – October 13, 2022: Received and filed

Non-Agricultural Pool – October 13, 2022: Moved unananimously to receive and file, without approval

Agricultural Pool – October 13, 2022: Received and filed

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

*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*

BACKGROUND

A monthly cash disbursement report is provided to keep all members apprised of Watermaster expenditures.

DISCUSSION

Total cash disbursements during the month of August 2022 were \$1,056,048.52.

The most significant expenditures during the month were West Yost and Associates in the amount of \$279,909.23 (check number 23624 dated August 1, 2022); Inland Empire Utilities Agency in the amount of \$275,458.25 (check number 23672 dated August 24, 2022); Brownstein Hyatt Farber Schreck in the amounts of \$83,263.35 and \$61,496.61 (check number 23623 dated August 1, 2022 and check number 23670 dated August 24, 2020); and John J. Schatz in the amount of \$98,699.06 (check number 23634 dated August 2, 2022). There were no other checks greater than \$50,000 issued during the month of August 2022.

ATTACHMENTS

1. Financial Report – B1

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/01/2022	23623	BROWNSTEIN HYATT FARBER SCHRECK		1012 - Bank of America Gen'l Ckg	
Bill	06/30/2022	897715-897726		897715-897726	BHFS Legal Expenses	83,263.35
TOTAL						83,263.35
Bill Pmt -Check	08/01/2022	23624	WEST YOST		1012 - Bank of America Gen'l Ckg	
Bill	06/30/2022	2049986		2049986	6906.31 · OBMP-Pool, Adv. Board Mtgs	4,620.40
Bill	06/30/2022	2049987		2049987	6906.32 · OBMP-Other General Meetings	12,666.75
Bill	06/30/2022	2049988		2049988	6906.71 · OBMP-Data Req.-CBWM Staff	1,464.00
Bill	06/30/2022	2049989		2049989	6906.72 · OBMP-Data Req.-Non CBWM Staff	1,870.50
Bill	06/30/2022	2049990		2049990	6906 · OBMP Engineering Services	3,870.50
Bill	06/30/2022	2049991		2049991	6906.15 · Integrated Model Mtgs-IEUA Cost	134.50
Bill	06/30/2022	2049992		2049992	7103.3 · Grdwtr Qual-Engineering	26,944.25
Bill	06/30/2022	2049993		2049993	7104.3 · Grdwtr Level-Engineering	33,924.55
Bill	06/30/2022	2049994		2049994	7107.2 · Grd Level-Engineering	1,092.64
Bill	06/30/2022	2049995		2049995	7107.2 · Grd Level-Engineering	1,934.75
Bill	06/30/2022	2049996		2049996	7107.2 · Grd Level-Engineering	1,479.50
				General Atomics	7107.3 · Grd Level-SAR Imagery	79,438.00
Bill	06/30/2022	2049997		2049997	7107.2 · Grd Level-Engineering	269.00
				Guida Surveying Inc.	7107.6 · Grd Level-Contract Svcs	62,560.31
Bill	06/30/2022	2049998		2049998	7108.31 · Hydraulic Control - PBHSP	2,251.50
Bill	06/30/2022	2049999		2049999	7110.3 · Ag Prod. & Estimation-Eng. Serv	4,338.75
Bill	06/30/2022	2050000		2050000	7202.2 · Engineering Svc	2,942.50
Bill	06/30/2022	2050001		2050001	7402 · PE4-Engineering	1,785.00
Bill	06/30/2022	2050002		2050002	7402.10 · PE4 - Northwest MZ1 Area Proj.	6,203.00
Bill	06/30/2022	2050003		2050003	7402 · PE4-Engineering	5,411.00
Bill	06/30/2022	2050004		2050004	7510 · PE6&7-IEUA Salinity Mgmt. Plan	348.00
Bill	06/30/2022	2050005		2050005	7511 · PE6&7-SAWBMPTask Force-50% IEU,	1,241.25
Bill	06/30/2022	2050006		2050006	7614 · PE8&9-Develop S&R Master Plan	7,640.08
Bill	06/30/2022	2050007		2050007	6906.14 · Modeling for WSIP-100% IEUA	8,425.25
Bill	06/30/2022	2050008		2050008	7508 · HC Mitigation Plan-50% IEUA	7,053.25
TOTAL						279,909.23
Bill Pmt -Check	08/02/2022	23625	ACCENT COMPUTER SOLUTIONS, INC.	152758	1012 - Bank of America Gen'l Ckg	
Bill	08/01/2022	152758		Monthly services - August 2022	6052.4 · IT Managed Services	5,005.95
				Overwatch - August 2022	6052.5 · IT Data Backup/Storage	699.00
				Omni Cloud - August 2022	6052.5 · IT Data Backup/Storage	188.00
				Office 365 Subscriptions - Business Premier-Aug 2	6052.4 · IT Managed Services	258.25
				Image Office Storage (per GB, per month)-Aug 202	6052.5 · IT Data Backup/Storage	618.66
TOTAL						6,769.86

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/02/2022	23626	ACWA JOINT POWERS INSURANCE AUTHORITY	0690753	1012 - Bank of America Gen'l Ckg	
Bill	08/01/2022	0690753		Prepayment - September 2022	1409 · Prepaid Life, BAD&D & LTD	338.48
				August 2022	60191 · Life & Disab.Ins Benefits	338.48
TOTAL						676.96
Bill Pmt -Check	08/02/2022	23627	APPLIED COMPUTER TECHNOLOGIES	35488	1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	35488		Database Consulting - July 2022	6052.2 · Applied Computer Technol	4,050.00
TOTAL						4,050.00
Bill Pmt -Check	08/02/2022	23628	BOWCOCK, ROBERT	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/20/2022	7/20 SY Workshop		7/20/22 Safe Yield Workshop	6311 · Board Member Compensation	125.00
Bill	07/27/2022	7/27 Board Workshop		7/22/22 Board Workshop - Roberts Rules	6311 · Board Member Compensation	125.00
Bill	07/28/2022	7/28 Special Board		7/28/22 Special Board Workshop	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	08/02/2022	23629	CURATALO, JAMES	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/01/2022	7/01 Legal Mtg		7/01/22 meeting w/legal counsel re: WM issues	6311 · Board Member Compensation	125.00
Bill	07/06/2022	7/06 Admin Mtg		7/06/22 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	07/26/2022	7/26 Call w/PK		7/26/22 call w/P. Kavounas	6311 · Board Member Compensation	125.00
Bill	07/27/2022	7/27 Board Workshop		7/27/22 Board Workshop - Roberts Rules	6311 · Board Member Compensation	125.00
Bill	07/28/2022	7/28 Board Workshop		7/28/22 Board Workshop	6311 · Board Member Compensation	125.00
TOTAL						625.00
Bill Pmt -Check	08/02/2022	23630	ELIE, STEVEN	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/28/2022	7/28 Board Workshop		7/28/22 Board Workshop	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	08/02/2022	23631	FILIPPI, GINO	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/27/2022	7/27 Workshop		7/27/22 Workshop re Roberts Rules	8470 · Ag Meeting Attend -Special	125.00
TOTAL						125.00
Bill Pmt -Check	08/02/2022	23632	FOLSOM, BETTY	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/27/2022	7/27 Board Workshop		7/27/22 Workshop re Roberts Rules	6311 · Board Member Compensation	125.00
Bill	07/28/2022	7/28 Board Workshop		7/28/22 Board Workshop	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	08/02/2022	23633	GEYE, BRIAN	Non-Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/20/2022	7/20 SY Workshop		7/20/22 Safe Yield Workshop	8511 · Non-Ag Pool Member Compensation	125.00
Bill	07/27/2022	7/27 Board Workshop		7/27/22 Board Workshop - Roberts Rules	8511 · Non-Ag Pool Member Compensation	125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	07/28/2022	7/28 Board Workshop		7/28/22 Board Workshop	8511 · Non-Ag Pool Member Compensation	125.00
TOTAL						<u>375.00</u>
Bill Pmt -Check	08/02/2022	23634	JOHN J. SCHATZ	Appropriative Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	06/30/2022			February 2022	8367 · Legal Service	15,729.06
Bill	06/30/2022			March 2022	8367 · Legal Service	23,642.50
Bill	06/30/2022			April 2022	8367 · Legal Service	29,622.50
Bill	06/30/2022			May 2022	8367 · Legal Service	14,128.50
Bill	06/30/2022			June 2022	8367 · Legal Service	15,576.50
TOTAL						<u>98,699.06</u>
Bill Pmt -Check	08/02/2022	23635	PR MILLWORKS	Estimate #20	1012 · Bank of America Gen'l Ckg	
Bill	07/29/2022	20		50% down on extension of board room desk	1840 · Capital Assets	2,100.00
TOTAL						<u>2,100.00</u>
Bill Pmt -Check	08/02/2022	23636	PREMIERE GLOBAL SERVICES	30969223	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	30969223		Fee - General	6022 · Telephone	39.00
				Fee - Confidential	6022 · Telephone	39.00
				Service fee	6022 · Telephone	8.50
				Call shortfall	6022 · Telephone	78.00
TOTAL						<u>164.50</u>
Bill Pmt -Check	08/02/2022	23637	VANGUARD CLEANING SYSTEMS	113462	1012 · Bank of America Gen'l Ckg	
Bill	08/01/2022	113462		Monthly service - August 2022	6024 · Building Repair & Maintenance	915.00
TOTAL						<u>915.00</u>
Bill Pmt -Check	08/02/2022	23638	SPECTRUM BUSINESS	2031978072322	1012 · Bank of America Gen'l Ckg	
Bill	07/28/2022	2031978072322		7/23/22-8/22/22	6053 · Internet Expense	1,105.31
TOTAL						<u>1,105.31</u>
Bill Pmt -Check	08/02/2022	23639	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	1,057.98
TOTAL						<u>1,057.98</u>
Bill Pmt -Check	08/02/2022	23640	STATE COMPENSATION INSURANCE FUND	1000907865	1012 · Bank of America Gen'l Ckg	
Bill	07/26/2022	1000907865		Premium charge 7/26/22-8/26/22	60183 · Worker's Comp Insurance	1,011.91
TOTAL						<u>1,011.91</u>
Bill Pmt -Check	08/02/2022	23641	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	7076224530355049		July 2022	6175 · Vehicle Fuel	375.56

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						375.56
Bill Pmt -Check	08/02/2022	23642	VISION SERVICE PLAN	815659500	1012 · Bank of America Gen'l Ckg	
Bill	07/26/2022	815659500		Vision Insurance Premium - August 2022	60182.2 · Dental & Vision Ins	126.36
TOTAL						126.36
Bill Pmt -Check	08/02/2022	23643	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	07/27/2022	7/27 Board Workshop		7/27/22 Board Workshop re Roberts Rules-Gardne	6311 · Board Member Compensation	125.00
Bill	07/28/2022	7/28 Board Workshop		7/28/22 Board Workshop-Gardner	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	08/02/2022	23644	ACCENT COMPUTER SOLUTIONS, INC.	152869	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	152869		Xirrius renewal for 2022/2023	6054 · Computer Software	1,040.00
TOTAL						1,040.00
Bill Pmt -Check	08/02/2022	23645	BUSINESS TELECOMMUNICATION SYSTEMS I 19056		1012 · Bank of America Gen'l Ckg	
Bill	07/22/2022	19056		Replacement phones for office	6055 · Computer Hardware	2,684.88
TOTAL						2,684.88
Bill Pmt -Check	08/02/2022	23646	EMPOWER LAB	Culture Workshop	1012 · Bank of America Gen'l Ckg	
Bill	06/08/2022	2371		6/08/22 Culture Workshop w/Don Pierro	6193 · Employee Training	1,500.00
Bill	07/29/2022	2387		July 2022	6193 · Employee Training	1,125.00
TOTAL						2,625.00
Bill Pmt -Check	08/02/2022	23647	VERIZON WIRELESS	9911024192	1012 · Bank of America Gen'l Ckg	
Bill	07/28/2022	9911024192		Acct #642073270-00002	7525 · PE6&7 - Computer Services	58.03
TOTAL						58.03
Bill Pmt -Check	08/03/2022	ACH 080322	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	08/01/2022	1394905143		Medical Insurance Premiums - August 2022	60182.1 · Medical Insurance	13,588.04
TOTAL						13,588.04
General Journal	08/02/2022	08/02/2022	HEALTH EQUITY	Health Equity Invoice 4052634	1012 · Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4052634	1012 · Bank of America Gen'l Ckg	52.71
TOTAL						52.71
Bill Pmt -Check	08/05/2022	23648	CALIFORNIA BANK & TRUST	Account 6198	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	Account 6198		Miscellaneous office supplies	6031.7 · Other Office Supplies	48.29
				Custom signs for office	6031.7 · Other Office Supplies	44.40
				Speaker for meeting room	6055 · Computer Hardware	58.32

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
				Reciever for meeting room	6055 · Computer Hardware	255.67
				Miscellaneous office supplies	6031.7 · Other Office Supplies	73.84
				Miscellaneous office supplies	6031.7 · Other Office Supplies	214.54
				Miscellaneous office supplies	6031.7 · Other Office Supplies	13.86
				Miscellaneous office supplies	6031.7 · Other Office Supplies	12.34
				Miscellaneous office supplies	6031.7 · Other Office Supplies	5.13
				Netgear ethernet	6055 · Computer Hardware	57.96
				Miscellaneous office supplies	6031.7 · Other Office Supplies	33.28
				Website security software	6054 · Computer Software	538.01
				Miscellaneous office supplies	6031.7 · Other Office Supplies	85.42
				Miscellaneous office supplies	6031.7 · Other Office Supplies	276.43
				Miscellaneous office supplies	6031.7 · Other Office Supplies	91.30
				Ice maker for office	6038 · Other Office Equipment	414.76
				Miscellaneous office supplies	6031.7 · Other Office Supplies	449.87
				Keyboard for ipad for Executive Assistant	6055 · Computer Hardware	321.20
				Cables for office	6055 · Computer Hardware	18.24
				Cables for office	6055 · Computer Hardware	18.25
				Miscellaneous office supplies	6031.7 · Other Office Supplies	15.86
				Miscellaneous office supplies	6031.7 · Other Office Supplies	127.71
				Miscellaneous office supplies	6031.7 · Other Office Supplies	32.12
				Miscellaneous office supplies	6031.7 · Other Office Supplies	80.00
				Miscellaneous office supplies	6031.7 · Other Office Supplies	42.97
				Supplies for workshop - Roberts Rules of Order	6312 · Meeting Expenses	95.05
				PK mtg w/R. Craig	8312 · Meeting Expenses	32.15
				PK mtg w/K. Parker	6312 · Meeting Expenses	52.06
TOTAL						3,509.03
Bill Pmt -Check	08/05/2022	23649	FEDEX	962656480	1012 · Bank of America Gen'l Ckg	
Bill	07/18/2022	962656480		shipping-wall mounts for San Sevaine equipment	1840 · Capital Assets	162.07
TOTAL						162.07
Bill Pmt -Check	08/05/2022	23650	LAW OFFICE OF ALLEN W. HUBSCH	38	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	38		Non-Ag Pool Legal Services - July 2022	8567 · Non-Ag Legal Service	935.00
TOTAL						935.00
Bill Pmt -Check	08/05/2022	23651	TOTAL COMPENSATION SYSTEMS, INC.	10796	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	10796		GASB 75 Full Valuation - 2nd installment	6062.5 · Audit Support Services	1,350.00
TOTAL						1,350.00
General Journal	08/09/2022	08/09/2022	HEALTH EQUITY	Health Equity Invoice 4074162	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
			HEALTH EQUITY	Health Equity Invoice 4074162	1012 - Bank of America Gen'l Ckg	69.20
TOTAL						69.20
General Journal	08/11/2022	08/11/2022	Payroll and Taxes for 07/24/22-08/06/22	Payroll and Taxes for 07/24/22-08/06/22	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	Direct Deposits for 07/24/22-08/06/22	1012 - Bank of America Gen'l Ckg	37,530.26
			ADP, LLC	Payroll Taxes for 07/24/22-08/06/22	1012 - Bank of America Gen'l Ckg	14,031.26
			MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 07/24/22-08/06/22	1012 - Bank of America Gen'l Ckg	6,513.92
			MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 07/24/22-08/06/22	1012 - Bank of America Gen'l Ckg	2,026.75
TOTAL						60,102.19
General Journal	08/12/2022	08/12/2022	ADP, LLC	ADP Tax Service	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	ADP Tax Service for 07/09/22-612006625	1012 - Bank of America Gen'l Ckg	177.34
			ADP, LLC	ADP Tax Service for 07/23/22-612006625	1012 - Bank of America Gen'l Ckg	170.93
TOTAL						348.27
Bill Pmt -Check	08/11/2022	ACH 081122	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	08/06/2022	08/11/2022	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 07/24/22-08/06/22	2000 - Accounts Payable	10,714.30
TOTAL						10,714.30
Check	08/15/2022	08/15/2022	Service Charge	Service Charge	1012 - Bank of America Gen'l Ckg	
				Service Charge	6039.1 - Banking Service Charges	1,705.10
TOTAL						1,705.10
Bill Pmt -Check	08/18/2022	23652	ACCENT COMPUTER SOLUTIONS, INC.	IT Miscellaneous Services	1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	153093		Internet switch upgrade	6054 - Computer Software	700.00
Bill	07/31/2022	153094		2nd down payment for project	6054 - Computer Software	1,323.00
TOTAL						2,023.00
Bill Pmt -Check	08/18/2022	23653	BURRTEC WASTE INDUSTRIES, INC.	N2112902506	1012 - Bank of America Gen'l Ckg	
Bill	08/09/2022	N2112902506		August 2022	6024 - Building Repair & Maintenance	142.50
TOTAL						142.50
Bill Pmt -Check	08/18/2022	23654	CORELOGIC INFORMATION SOLUTIONS	82142529	1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	82142529		July 2022	7525 - PE6&7 - Computer Services	125.00
TOTAL						125.00
Bill Pmt -Check	08/18/2022	23655	DE HAAN, HENRY	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/01/2022	5/12 Ag Pool Mtg		5/12/22 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
TOTAL						125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/18/2022	23656	EMPOWER LAB	Employee Training	1012 - Bank of America Gen'l Ckg	
Bill	07/01/2022	2268		April 2022	6193 - Employee Training	1,125.00
Bill	07/01/2022	2347		June 2022	6193 - Employee Training	1,125.00
TOTAL						<u>2,250.00</u>
Bill Pmt -Check	08/18/2022	23657	FAVELA, RUBY	Employee Expense Reimbursement	1012 - Bank of America Gen'l Ckg	
Bill	08/10/2022			Miscellaneous office supplies	6031.7 - Other Office Supplies	113.09
				Supplies for PK anniversary frame	6141.3 - Admin Meetings	13.22
				Mileage reimbursement	6173 - Airfare/Mileage	38.24
TOTAL						<u>164.55</u>
Bill Pmt -Check	08/18/2022	23658	FIRST LEGAL NETWORK LLC	40064456	1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	40064456		Court filings for July 2022	6061.5 - Court Filing Services	182.01
TOTAL						<u>182.01</u>
Bill Pmt -Check	08/18/2022	23659	KUHN, BOB	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	07/05/2022	7/05 Admin Mtg		7/05/22 Administrative meeting w/Legal	6311 - Board Member Compensation	125.00
Bill	07/25/2022	7/25 Roberts Rules		7/25/22 Roberts Rules Workshop	6311 - Board Member Compensation	125.00
Bill	07/26/2022	7/26 Board Workshop		7/26/22 Board Workshop	6311 - Board Member Compensation	125.00
TOTAL						<u>375.00</u>
Bill Pmt -Check	08/18/2022	23660	LEGAL SHIELD	Employee Deductions	1012 - Bank of America Gen'l Ckg	
Bill	07/15/2022	111802		Employee deductions - July 2022	60194 - Other Employee Insurance	135.50
Bill	08/15/2022	111802		Employee deductions - August 2022	60194 - Other Employee Insurance	109.60
TOTAL						<u>245.10</u>
Bill Pmt -Check	08/18/2022	23661	SANTA ANA WATERSHED PROJECT AUTHORI	BMPTF 2023-02	1012 - Bank of America Gen'l Ckg	
Bill	07/27/2022	BMPTF 2023-02		FY 2022-23 Basin Monitoring Program Task Force	6903 - OBMP SAWPA Group	21,458.00
TOTAL						<u>21,458.00</u>
Bill Pmt -Check	08/18/2022	23662	TELLEZ-FOSTER, EDGAR	Employee Expense Reimbursement	1012 - Bank of America Gen'l Ckg	
Bill	08/10/2022			8/02/22 Ops Staff Meeting	6141.3 - Admin Meetings	120.75
				8/9/2022 mtg. w/E. Skrzat CBWCD	8312 - Meeting Expenses	37.82
TOTAL						<u>158.57</u>
Bill Pmt -Check	08/18/2022	23663	UNITED HEALTHCARE	052587364607	1012 - Bank of America Gen'l Ckg	
Bill	08/16/2022	052587364607		Dental Insurance Premium - September 2022	60182.2 - Dental & Vision Ins	938.49
TOTAL						<u>938.49</u>
Bill Pmt -Check	08/19/2022	23664	CUCAMONGA VALLEY WATER DISTRICT	Office Lease	1012 - Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	08/18/2022			Lease payment due September 1, 2022	1422 · Prepaid Rent	7,588.83
TOTAL						7,588.83
Bill Pmt -Check	08/19/2022	23665	DELL MARKETING LP	10607619860	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2022	10607619860		San Sevaine room AV Equipment	1840 · Capital Assets	13,027.58
TOTAL						13,027.58
Bill Pmt -Check	08/19/2022	23666	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2022	90948438900509145		Office fax	6022 · Telephone	172.92
TOTAL						172.92
Bill Pmt -Check	08/19/2022	23667	GREAT AMERICA LEASING CORP.	32242127	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2022	32242127		Invoice for August 2022	6043.1 · Ricoh Lease Fee	1,528.34
				Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
				Usage for color images	6043.2 · Ricoh Usage & Maintenance Fee	346.12
TOTAL						1,883.03
Bill Pmt -Check	08/19/2022	23668	EASTVALE DEVELOPMENT COMPANY - PIERS Ag Pool and Board Member Compensation	1012 · Bank of America Gen'l Ckg		
Bill	07/12/2022	7/12 Call w/Chair		7/12/22 Call with Ag Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/18/2022	7/18 Call w/Chair		7/18/22 Call with Agricultural Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/19/2022	7/19 Call w/Chair		7/19/22 Call with Agricultural Pool Legal and Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/20/2022	7/20 Call w/Chair		7/20/22 Call with Agricultural Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/20/2022	7/20 SY Workshop		7/20/22 Safe Yield Reset Workshop	6311 · Board Member Compensation	125.00
Bill	07/21/2022	7/21 Call w/Chair		7/21/22 Call with Agricultural Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/26/2022	7/26 Call w/Chair		7/26/22 Call with Agricultural Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/27/2022	7/27 RRO		7/27/22 Board Meeting - Robert's Rules of Order	6311 · Board Member Compensation	125.00
Bill	07/29/2022	7/29 RIPCOMM		7/29/22 RIPCOMM	6311 · Board Member Compensation	125.00
TOTAL						1,125.00
Bill Pmt -Check	08/19/2022	23669	VERIZON WIRELESS	9912686844	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2022	9912686844		Acct #470810953-00002	6022 · Telephone	520.18
TOTAL						520.18
Bill Pmt -Check	08/24/2022	ACH 082422	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	08/01/2022	16881901		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	10,361.75
TOTAL						10,361.75
General Journal	08/23/2022	08/23/2022	HEALTH EQUITY	Health Equity Invoice 4117564	1012 · Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4117564	1012 · Bank of America Gen'l Ckg	837.17
TOTAL						837.17

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
General Journal	08/24/2022	08/24/2022	HEALTH EQUITY	Health Equity Invoice 4022988	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4022988	1012 - Bank of America Gen'l Ckg	92.00
TOTAL						92.00
Bill Pmt -Check	08/24/2022	23670	BROWNSTEIN HYATT FARBER SCHRECK		1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	902962-902961		902962-902961	BHFS Legal Expenses	61,496.61
TOTAL						61,496.61
Bill Pmt -Check	08/24/2022	23671	CHEF DAVE'S CATERING & EVENT SERVICES 1417B		1012 - Bank of America Gen'l Ckg	
Bill	08/17/2022	1417B		8/17/2022 Executive Committee Meeting	6193 - Employee Training	248.35
TOTAL						248.35
Bill Pmt -Check	08/24/2022	23672	INLAND EMPIRE UTILITIES AGENCY	90032361	1012 - Bank of America Gen'l Ckg	
Bill	08/17/2022	90032361		GW Recharge O&M Cost Reimbursement - 1st Qtr 7206	Comp Recharge-O&M	275,458.25
TOTAL						275,458.25
Bill Pmt -Check	08/24/2022	23673	PRINTING RESOURCES	67753	1012 - Bank of America Gen'l Ckg	
Bill	08/18/2022	67753		Nameplates for D. Morales, title plate for ETF	6031.7 - Other Office Supplies	110.92
TOTAL						110.92
Bill Pmt -Check	08/24/2022	23674	READY REFRESH	0023230253	1012 - Bank of America Gen'l Ckg	
Bill	08/18/2022	0023230253		Office Water Bottle - August 2022	6031.7 - Other Office Supplies	65.80
TOTAL						65.80
Bill Pmt -Check	08/24/2022	23675	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 - Bank of America Gen'l Ckg	
Bill	08/23/2022	006492990009		Policy # 00-649299-0009	60191 - Life & Disab.Ins Benefits	1,057.98
TOTAL						1,057.98
Bill Pmt -Check	08/24/2022	23676	VERIZON WIRELESS	9913354273	1012 - Bank of America Gen'l Ckg	
Bill	08/23/2022	9913354273		Acct #642073270-00002	7525 - PE6&7 - Computer Services	58.03
TOTAL						58.03
General Journal	08/25/2022	08/25/2022	Payroll and Taxes for 08/07/22-08/20/22	Payroll and Taxes for 08/07/22-08/20/22	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	Direct Deposits for 08/07/22-08/20/22	1012 - Bank of America Gen'l Ckg	38,292.66
			ADP, LLC	Payroll Taxes for 08/07/22-08/20/22	1012 - Bank of America Gen'l Ckg	14,418.53
			MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 08/07/22-08/20/22	1012 - Bank of America Gen'l Ckg	6,219.42
			MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 08/07/22-08/20/22	1012 - Bank of America Gen'l Ckg	2,026.75
TOTAL						60,957.36

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
August 2022

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/25/2022	ACH 082522	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	08/20/2022	08/20/2022	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/07/22-08/20/22	2000 - Accounts Payable	10,714.30
TOTAL						<u>10,714.30</u>
Bill Pmt -Check	08/30/2022	ACH 083022	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
Bill	08/03/2022	16886592		Fees for GASB-68 Reports & Schedules	60180 - Employers PERS Expense	700.00
TOTAL						<u>700.00</u>
General Journal	08/30/2022	08/30/2022	HEALTH EQUITY	Health Equity Invoice 4153909	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4153909	1012 - Bank of America Gen'l Ckg	91.34
TOTAL						<u>91.34</u>
Total Disbursements:						<u><u>1,056,048.52</u></u>



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022
TO: Advisory Committee Members
SUBJECT: VISA Check Detail Report - Financial Report B2 (August 31, 2022)
(Consent Calendar Item I.B.2.)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of August 2022. [Normal Course of Business]

Recommendation: Receive and file VISA Check Detail Report for August 2022 as presented.

Financial Impact: Funds disbursed were included in the FY 2022/23 "Amended" Watermaster Budget.

Future Consideration

Advisory Committee – October 20, 2022: Receive and File

Watermaster Board – October 27, 2022: Receive and File

ACTIONS:

Appropriative Pool – October 13, 2022: Received and filed

Non-Agricultural Pool – October 13, 2022: Moved unanimously to receive and file, without approval

Agricultural Pool – October 13, 2022: Received and filed

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

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

BACKGROUND

A monthly VISA Check Detail report is provided to keep all members apprised of Watermaster expenditures charged against the General Manager and Chief Financial Officer's Bank of America VISA card.

DISCUSSION

The total cash disbursements during the month of August 2022 was \$2,654.54. The payment of \$2,654.54 was processed in the amount of \$2,654.54 (by ACH payment dated July 13, 2022). The monthly charges for August 2022 of \$2,654.54 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report – B2

CHINO BASIN WATERMASTER
VISA Check Detail Report
August 2022

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/05/2022	23648	CALIFORNIA BANK & TR	Account 6198	1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	Account 6198		Miscellaneous office supplies	6031.7 - Other Office Supplies	48.29
				Custom signs for office	6031.7 - Other Office Supplies	44.40
				Speaker for meeting room	6055 - Computer Hardware	58.32
				Reciever for meeting room	6055 - Computer Hardware	255.67
				Miscellaneous office supplies	6031.7 - Other Office Supplies	73.84
				Miscellaneous office supplies	6031.7 - Other Office Supplies	214.54
				Miscellaneous office supplies	6031.7 - Other Office Supplies	13.86
				Miscellaneous office supplies	6031.7 - Other Office Supplies	12.34
				Miscellaneous office supplies	6031.7 - Other Office Supplies	5.13
				Netgear ethernet	6055 - Computer Hardware	57.96
				Miscellaneous office supplies	6031.7 - Other Office Supplies	33.28
				Website security software	6054 - Computer Software	538.01
				Miscellaneous office supplies	6031.7 - Other Office Supplies	85.42
				Miscellaneous office supplies	6031.7 - Other Office Supplies	276.43
				Miscellaneous office supplies	6031.7 - Other Office Supplies	91.30
				Ice maker for office	6038 - Other Office Equipment	414.76
				Miscellaneous office supplies	6031.7 - Other Office Supplies	449.87
				Keyboard for ipad for Executive Assistant	6055 - Computer Hardware	321.20
				Cables for office	6055 - Computer Hardware	18.24
				Cables for office	6055 - Computer Hardware	18.25
				Miscellaneous office supplies	6031.7 - Other Office Supplies	15.86
				Miscellaneous office supplies	6031.7 - Other Office Supplies	127.71
				Miscellaneous office supplies	6031.7 - Other Office Supplies	32.12
				Miscellaneous office supplies	6031.7 - Other Office Supplies	80.00
				Miscellaneous office supplies	6031.7 - Other Office Supplies	42.97
				Supplies for workshop - Roberts Rules of Order	6312 - Meeting Expenses	95.05
				PK mtg w/R. Craig	8312 - Meeting Expenses	32.15
				PK mtg w/K. Parker	6312 - Meeting Expenses	52.06
					Subtotal Disbursements:	<u>3,509.03</u>

TOTAL



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022
TO: Advisory Committee Members
SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2022 through August 31, 2022 - Financial Report B3 (August 31, 2022)
(Consent Calendar Item I.B.3.)

SUMMARY

Issue: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2022 through August 31, 2022. [Normal Course of Business]

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2022 through August 31, 2022 as presented.

Financial Impact: Funds disbursed were included in the FY 2022/23 "Amended" Watermaster Budget.

Future Consideration

Advisory Committee – October 20, 2022: Receive and File

Watermaster Board – October 27, 2022: Receive and File

ACTIONS:

Appropriative Pool – October 13, 2022: Received and filed

Non-Agricultural Pool – October 13, 2022: Moved unanimously to receive and file, without approval

Agricultural Pool – October 13, 2022: Received and filed

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

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

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2022 through August 31, 2022 is provided to keep all members apprised of the FY 2022/23 cumulative Watermaster revenues, expenditures and changes in net assets for the period listed.

DISCUSSION

The Combining Schedule of Revenue, Expenses and Changes in Net Assets has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Combining Schedule provided balances to the supporting documentation in the Watermaster accounting system as presented.

ATTACHMENTS:

1. Financial Report – B3

CHINO BASIN WATERMASTER
COMBINING SCHEDULE OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS
FOR THE PERIOD JULY 1, 2022 THROUGH AUGUST 31, 2022

Financial Report - B3

	WATERMASTER JUDGMENT ADMINISTRATION	OBMP AND PE 1-9	POOL ADMINISTRATION & SPECIAL PROJECTS			AP ESCROW ACCOUNT	GROUNDWATER REPLENISHMENT	LAIF VALUE ADJ.	GASB 75 BEG. NET POSITION	GRAND TOTALS	AMENDED BUDGET 2022-2023
			APPROPRIATIVE POOL	AG POOL	NON-AG POOL						
Administrative Revenues:											
Administrative Assessments			-	-	-					-	9,314,560
Interest Revenue			-	-	-					-	35,550
Mutual Agency Project Revenue	181,866									181,866	181,866
Miscellaneous Income	2									2	0
Total Revenues	181,868	-	-	-	-	-	-	-	-	181,868	9,531,976
Administrative & Project Expenditures:											
Watermaster Judgment Administration	491,796									491,796	2,593,044
Watermaster Board-Advisory Committee	45,807									45,807	422,505
Ag Pool Legal Services - Ag Fund ¹				14,536						14,536	-
Pool Administration			11,519	16,506	6,541					34,566	613,095
Optimum Basin Mgmt Administration		147,597								147,597	1,526,058
OBMP Program Elements 1-9		701,486								701,486	4,619,904
Debt Service		-								-	482,302
Basin Recharge Improvements		-								-	816,710
Total Administrative/OBMP Expenses	537,602	849,083	11,519	16,506	6,541	-	-	-	-	1,435,787	11,073,617
Net Administrative/OBMP Expenses	(355,735)	(849,083)									
Allocate Net Admin Expenses To Pools	355,735		264,351	77,352	14,032						
Allocate Net OBMP Expenses To Pools		849,083	630,963	184,628	33,492						
Allocate Debt Service to App Pool		-	-								
Allocate Basin Recharge to App Pool		-	-								
Agricultural Expense Transfer*			278,486	(278,486)							
Total Expenses			1,185,319	14,536	54,065	-	-	-	-	1,435,787	11,073,617
Net Administrative Income			(1,185,319)	(14,536)	(54,065)					(1,253,919)	(1,541,641)
Other Income/(Expense)											
Replenishment Water Assessments							-			-	0
Desalter Replenishment Obligation										-	0
Exhibit "G" Non-Ag Pool Water			-							-	0
RTS Charges from IEUA							(39,879)			(39,879)	0
Interest Revenue			-	-	-		-			-	0
MWD Water Purchases										-	0
Non-Ag Stored Water Purchases										-	0
Exhibit "G" Non-Ag Pool Water			-							-	0
Groundwater Replenishment										-	0
LAIF - Fair Market Value Adjustment								-		-	0
Gain on Sale of Assets			-		-			-		-	0
AP Escrow Account - Refunds to AP			-		-					-	0
AP Escrow Account - Interest Earned						2				2	0
Refund-Basin O&M Expenses			-		-					-	0
Refund-Recharge Debt Service			-		-					-	0
Funding To/(From) Reserves			-		-					-	0
Net Other Income/(Expense)			-	-	-	2	(39,879)	-	-	(39,877)	0
Net Transfers To/(From) Reserves		(1,293,797)	(1,185,319)	(14,536)	(54,065)	2	(39,879)	-	-	(1,293,797)	(1,541,641)
Net Assets, July 1, 2022			8,686,293	871,691	101,058	374	1,644,153	(143,111)	(443,445)	10,717,014	
Net Assets, End of Period			7,500,975	857,155	46,993	375	1,604,274	(143,111)	(443,445)	9,423,217	9,423,217
Ag Pool Assessments Outstanding ²				(586,852)							
Ag Pool Fund Balance				270,303							
20/21 Assessable Production			73,423.920	21,484.815	3,897.385					98,806.120	
20/21 Production Percentages			74.311%	21.744%	3.944%					100.000%	

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

Note ¹ - Agricultural Pool Legal Services for July 2022 through August 2022

N:\Administration\Meetings - Agendas & Minutes\2022\Staff Reports\10 - October\Advisory\20221020 - B3 Combining Schedule_August 2022 Note ² - Outstanding balance of Agricultural Pool Special Assessments for \$200,000 is \$121,504.22 and \$635,000 invoicing is \$465,347.97



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022

TO: Advisory Committee Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period August 1, 2022 through August 31, 2022 - Financial Report B4 (August 31, 2022) (Consent Calendar Item I.B.4.)

SUMMARY

Issue: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of August 1, 2022 through August 31, 2022. [Normal Course of Business]

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period August 1, 2022 through August 31, 2022 as presented.

Financial Impact: Funds disbursed were included in the FY 2022/23 "Amended" Watermaster Budget.

Future Consideration

Advisory Committee – October 20, 2022: Receive and File

Watermaster Board – October 27, 2022: Receive and File

ACTIONS:

Appropriative Pool – October 13, 2022: Received and filed

Non-Agricultural Pool – October 13, 2022: Moved unanimously to receive and file, without approval

Agricultural Pool – October 13, 2022: Received and filed

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

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

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period August 1, 2022 through August 31, 2022 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST); and cash on hand at the Watermaster office (petty cash) at the end of the period stated. The Treasurer's Report details the change (increase or decrease) in the overall cash position of Watermaster, as well as the changes (increase or decrease) to the assets and liabilities section of the balance sheet. The report also provides a detailed listing of all deposits and/or withdrawals in the California State Treasurer's Local Agency Investment Fund (LAIF) and/or CalTRUST, the most current effective yield as of the last quarter, and the ending balance in LAIF as of the reporting date.

DISCUSSION

The Treasurer's Report of Financial Affairs has been created from various financial reports and statements created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Treasurer's Report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

ATTACHMENTS

1. Financial Report – B4

**CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
AUGUST 1, 2022 THROUGH AUGUST 31, 2022**

Financial Report - B4

DEPOSITORIES:

Cash on Hand - Petty Cash		\$	500
Bank of America			
Governmental Checking-Demand Deposits	\$	228,345	
Zero Balance Account - Payroll		(41,826)	186,519
Restricted Funds - AP Escrow			5,393
Local Agency Investment Fund - Sacramento			10,260,132
TOTAL CASH IN BANKS AND ON HAND	8/31/2022		\$ 10,452,544
TOTAL CASH IN BANKS AND ON HAND	7/31/2022		11,355,220
PERIOD INCREASE (DECREASE)			\$ (902,676)

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets:		\$	157,930
Accounts Receivable			13,066
Assessments Receivable			(15,163)
Prepaid Expenses, Deposits & Other Current Assets			(111,964)
(Decrease)/Increase in Liabilities			15,168
Accounts Payable			3,642
Accrued Payroll, Payroll Taxes & Other Current Liabilities			(965,355)
Long Term Liabilities			
Transfer to/(from) Reserves			
PERIOD INCREASE (DECREASE)			\$ (902,676)

SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Gov't Checking Demand	Zero Balance Account Payroll	Restricted Funds AP Escrow	Local Agency Investment Funds	Totals
Balances as of 7/31/2022	\$ 500	\$ 354,196	\$ -	\$ 5,392	\$ 10,995,132	\$ 11,355,220
Deposits	-	930,197	(41,826)	1	-	888,372
Transfers	-	(170,334)	(104,621)	-	(735,000)	(1,009,955)
Withdrawals/Checks	-	(885,715)	104,621	-	-	(781,094)
Balances as of 8/31/2022	\$ 500	\$ 228,345	\$ (41,826)	\$ 5,393	\$ 10,260,132	\$ 10,452,544
PERIOD INCREASE OR (DECREASE)	\$ -	\$ (125,851)	\$ (41,826)	\$ 1	\$ (735,000)	\$ (902,676)

**CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
AUGUST 1, 2022 THROUGH AUGUST 31, 2022**

Financial Report - B4

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
8/5/2022	Withdrawal		(735,000)				
TOTAL INVESTMENT TRANSACTIONS			\$ (735,000)	\$0			

* The earnings rate for L.A.I.F. is a daily variable rate; 0.75% was the effective yield rate at the Quarter ended June 30, 2022.

**INVESTMENT STATUS
August 31, 2022**

<u>Financial Institution</u>	<u>Principal Amount</u>	<u>Number of Days</u>	<u>Interest Rate</u>	<u>Maturity Date</u>
Local Agency Investment Fund	\$ 10,260,132			
TOTAL INVESTMENTS	\$ 10,260,132			

Funds on hand are sufficient to meet all foreseen and planned Administrative and project expenditures during the next six months.

All investment transactions have been executed in accordance with the criteria stated in Chino Basin Watermaster's Investment Policy.

Respectfully submitted,



Joseph S. Joswiak
Chief Financial Officer



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022

TO: Advisory Committee Members

SUBJECT: Budget vs. Actual Report for the Period July 1, 2022 through August 31, 2022 -
Financial Report B5 (August 31, 2022) (Consent Calendar Item I.B.5.)

SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2022 through August 31, 2022. [Normal Course of Business]

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2022 through August 31, 2022 as presented.

Financial Impact: Funds disbursed were included in the FY 2022/23 "Amended" Watermaster Budget.

Future Consideration

Advisory Committee – October 20, 2022: Receive and File

Watermaster Board – October 27, 2022: Receive and File

ACTIONS:

Appropriative Pool – October 13, 2022: Received and filed

Non-Agricultural Pool – October 13, 2022: Moved unanimously to receive and file, without approval

Agricultural Pool – October 13, 2022: Received and filed

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

*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*

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2022 through August 31, 2022 is provided to keep all members apprised of the total revenues and expenses for the current fiscal year. The expense section is categorized into four distinct sections. Those sections are: Judgment Administration and Administrative Expenses; Optimum Basin Management Program Expenses; Program Element 1-9 Expenses; and Other Income/Expenses. The Budget vs. Actual report has been created from Intuit QuickBooks Enterprise Solutions 22.0, the Watermaster accounting system. The Budget vs. Actual report provided, balances to the supporting documentation in the Watermaster accounting system, as well as the supporting bank statements.

DISCUSSION

CURRENT MONTH – AUGUST 2022

Year-To-Date (YTD) for the two months ending August 31, 2022, all but three categories were at or below the projected budget.

The categories over budget were: (1) the Administration Salary/Benefits expenses (6010s) were over budget by \$84,539 or 69.4% as a result of increased staff time and activities in the administrative functions. Please note that the overage is only in the administrative section, not with the entire consolidated staffing budget. (2) The Watermaster Legal Services (6070s) were over budget by \$22,056 or 28.7% as a result of increased activities in the areas of Court Coordination, Personnel Matters, unbudgeted expenses for the Ely 3 Basin Investigation, and miscellaneous legal expenses during the past two months. Please note that the overage is only in the administrative section, not the entire consolidated BHFS budget. (3) Groundwater Level Monitoring expenses (7104s) were over budget by \$27,054 or 51.0% as a result of increased Watermaster field staff time for monitoring and production data collection efforts. Please note that the overage is only in the Groundwater Level Monitoring section, not with the entire consolidated staffing budget.

There are no Budget Transfers or Budget Amendments being proposed for FY 2022/23 as of August 31, 2022.

Overall, the Watermaster (YTD) Actual Expenses were \$2,413,777 or 62.7% below the (YTD) Budgeted Expenses of \$3,849,564.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2022:

During the month of July 2022, the “Carry Over” funding was calculated. The Total “Carry Over” funding amount of \$1,541,640.96 has been posted to the general ledger accounts. The total amount of \$1,596,853.31 consisted of \$478,326.10 from Engineering Services, \$458,709.78 from Capital Improvement Projects, \$373,394.56 from OBMP Activities, \$145,428.66 from Pool Funding Accounts, and \$85,781.86 from Administration Services. More detailed information is provided regarding this issue under the “Carry Over” Funding section.

The “Amended” Budget for FY 2022/23 is \$11,073,616.96 which includes \$1,541,640.96 for the prior years “Carry Over” funding.

SALARIES EXPENSE

CURRENT MONTH – AUGUST 2022

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

As of August 31, 2022, the total (YTD) Watermaster salary expenses were \$10,368 or 2.4% below the (YTD) budgeted amount of \$439,710. The overall staffing budget was developed with a staffing level of eleven Full-Time Equivalents (FTEs), and staffing is currently at eleven Full-Time Equivalents (FTEs).

Watermaster utilizes an in-house database time and attendance system to track and record staff's actual hours worked and records those hours to a specific project or activity. This time and attendance database of captured staff hours and activities is the basis for the bi-weekly payrolls which are processed using an external payroll processing service (ADP). During the FY 2022/23 budget development, Watermaster staff modified the internal timekeeping database system to better track the actual activities performed by the staff. Watermaster reduced the number of cost accounting activities from 160+ labor codes down to 53 labor codes. Watermaster staff can now record time to the following six activity categories: (1) Judgment Administration activities; (2) General Administrative activities; (3) Paid Leaves of vacation, sick or holiday; (4) Pools, Advisory or Board Meeting attendance; (5) OBMP activities; and (6) Program Elements 1 through 9 activities.

When the FY 2022/23 budget was developed, basic assumptions were used in allocating how staff's time would be spent and on which of the projects or activities. The staffing dollars were then allocated into those specific areas and budgeted on a 1/12 monthly budget. When actual staffing activities vary from the budgeted assumptions, a positive or negative variance can be created.

Currently the following actual allocations are tracking above the projected allocations due to Watermaster staff spending more time in these activities as follows: Judgment Administration-Document Review-WM Staff expenses (account 5901.1) above budget by \$23,437 or 125.0%; Judgment Administration-Water Accounting/Database-WM Staff expenses (account 5981) above budget by \$3,421 or 78.5%; WM Staff Salaries-Overtime expenses (account 6011.1) above budget by \$942 or 47.1%; 457(f) NQDC Plan expenses (account 6011.4) above budget by \$688 or 10.5%; Administrative-Accounting-WM Staff expenses (account 6011.10) above budget by \$14,779 or 44.3%; Administrative-Building Admin-WM Staff expenses (account 6011.15) above budget by \$1,499 or 35.5%; Administrative-Document Review-WM Staff expenses (account 6011.25) above budget by \$11,172 or 267.0%; Administrative-General-WM Staff expenses (account 6011.50) above budget by \$80,965 or 566.5%; Administrative-IT-WM Staff expenses (account 6011.70) above budget by \$11,826 or 310.6%; Administrative-Meetings-WM Staff expenses (account 6011.80) above budget by \$2,886 or 30.5%; Administrative-Training(Giving/Receiving) expenses (account 6011.95) above budget by \$482 or 12.4%; OBMP-General-WM Staff expenses above budget by \$5,184 or 43.9%; PE1-Monitoring Program-WM Staff expenses (account 7104.1) above budget by \$23,458 or 719.6%; and PE2-Comprehensive Recharge-WM Staff expenses (account 7201) above budget by \$10,388 or 226.6%.

Watermaster does not plan to present any Budget Transfers or Budget Amendments as of August 31, 2022.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of August 31, 2022. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '22 - Aug '22 Actual	Jul '22 - Aug '22 Budget	\$ Over Budget	% of Budget	FY 2022/23 Annual Budget
WM Salary Expense					
5901.1 - Judgment Admin - Doc. Review-WM Staff	42,180.50	18,744.00	23,436.50	225.04%	108,299.00
5901.3 - Judgment Admin - Field Work-WM Staff	0.00	10,816.00	-10,816.00	0.0%	62,491.00
5901.5 - Judgment Admin - General-WM Staff	5,328.78	25,358.00	-20,029.22	21.01%	146,513.00
5901.7 - Judgment Admin - Meeting-WM Staff	5,964.85	16,033.00	-10,068.15	37.2%	92,638.00
5901.9 - Judgment Admin - Reporting-WM Staff	0.00	12,906.00	-12,906.00	0.0%	74,568.00
5910 - JAdmin - Court Coord./Attendance-WM Staff	590.06	3,970.00	-3,379.94	14.86%	22,945.00
5911 - JAdmin - Exhibit G-WM Staff	0.00	3,305.00	-3,305.00	0.0%	19,090.00
5921 - JAdmin - Production Monitoring-WM Staff	2,368.88	7,067.00	-4,698.12	33.52%	40,822.00
5931 - JAdmin - Recharge Applications-WM Staff	0.00	1,591.00	-1,591.00	0.0%	9,191.00
5941 - JAdmin - Reporting-WM Staff	0.00	6,320.00	-6,320.00	0.0%	36,520.00
5951 - JAdmin - Rules & Regs-WM Staff	147.52	2,986.00	-2,838.48	4.94%	17,251.00
5961 - JAdmin - Safe Yield-WM Staff	4,942.01	9,333.00	-4,390.99	52.95%	53,915.00
5971 - JAdmin - Storage Agreements-WM Staff	483.85	9,241.00	-8,757.15	5.24%	53,393.00
5981 - JAdmin - Water Accounting/Database-WM Staff	7,776.95	4,356.00	3,420.95	178.53%	25,171.00
5991 - JAdmin - Water Transactions-WM Staff	2,162.42	6,140.00	-3,977.58	35.22%	35,490.00
6011.1 - WM Staff Salaries - Overtime	2,941.71	2,000.00	941.71	147.09%	12,000.00
6011.4 - 457(f) NQDC Plan	7,255.24	6,567.00	688.24	110.48%	39,402.00
6011.10 - Admin - Accounting-WM Staff	48,150.56	33,372.00	14,778.56	144.28%	192,807.00
6011.15 - Admin - Building Admin-WM Staff	5,720.91	4,222.00	1,498.91	135.5%	24,389.00
6011.20 - Admin - Conference/Seminars-WM Staff	5,519.79	11,105.00	-5,585.21	49.71%	64,170.00
6011.25 - Admin - Document Review-WM Staff	14,933.62	3,762.00	11,171.62	396.96%	21,729.00
6011.30 - Admin - Field Work-WM Staff	1,086.64	1,675.00	-588.36	64.87%	9,685.00
6011.50 - Admin - General-WM Staff	95,255.62	14,291.00	80,964.62	666.54%	82,566.00
6011.60 - Admin - HR-WM Staff	3,059.18	5,905.00	-2,845.82	51.81%	34,113.00
6011.70 - Admin - IT-WM Staff	15,633.34	3,807.00	11,826.34	410.65%	21,997.00
6011.80 - Admin - Meeting-WM Staff	12,348.27	9,462.00	2,886.27	130.5%	54,669.00
6011.90 - Admin - Team Building-WM Staff	4,218.71	4,730.00	-511.29	89.19%	27,330.00
6011.95 - Admin - Training (Give/Receive)-WM Staff	4,366.00	3,884.00	482.00	112.41%	22,439.00
6017 - Temporary Services	0.00	4,167.00	-4,167.00	0.0%	25,000.00
6201 - Advisory Committee - WM Staff	1,300.49	13,612.00	-12,311.51	9.55%	78,642.00
6301 - Watermaster Board - WM Staff	11,549.24	15,635.00	-4,085.76	73.87%	90,345.00
8301 - Appropriative Pool - WM Staff	5,090.92	15,635.00	-10,544.08	32.56%	90,345.00
8401 - Agricultural Pool - WM Staff	1,965.78	15,635.00	-13,669.22	12.57%	90,345.00
8501 - Non-Agricultural Pool - WM Staff	1,101.79	13,782.00	-12,680.21	7.99%	79,637.00
6901.1 - OBMP - Document Review-WM Staff	5,633.21	9,129.00	-3,495.79	61.71%	52,751.00
6901.3 - OBMP - Field Work-WM Staff	1,327.63	8,381.00	-7,053.37	15.84%	48,426.00
6901.5 - OBMP - General-WM Staff	16,990.80	11,806.00	5,184.80	143.92%	68,213.00
6901.7 - OBMP - Meeting-WM Staff	8,727.39	9,910.00	-1,182.61	88.07%	57,257.00
6901.9 - OBMP - Reporting-WM Staff	611.96	9,725.00	-9,113.04	6.29%	56,190.00
7104.1 - PE1 - Monitoring Program-WM Staff	26,737.94	3,280.00	23,457.94	815.18%	18,945.00
7201 - PE2 - Comprehensive Recharge - WM Staff	14,972.85	4,585.00	10,387.85	326.56%	26,495.00
7301 - PE3&5 - Water Supply/Desalter-WM Staff	0.00	3,298.00	-3,298.00	0.0%	19,048.00
7301.1 - PE5 - Reg. Supply Water Prgm.-WM Staff	0.00	3,467.00	-3,467.00	0.0%	20,042.00
7401 - PE4 - MZ1 Subsidence Mgmt. Plan-WM Staff	0.00	3,298.00	-3,298.00	0.0%	19,048.00
7501 - PE6 - Coop. Programs/Salt Mgmt.-WM Staff	1,475.14	3,467.00	-1,991.86	42.55%	20,042.00
7501.1 - PE 7 - Salt Nutrient Mgmt. Plan-WM Staff	708.07	4,411.00	-3,702.93	16.05%	25,501.00
7601 - PE8&9 - Storage Mgmt./Recovery-WM Staff	2,185.97	4,786.00	-2,600.03	45.67%	27,659.00
Subtotal WM Staff Costs	392,814.59	400,957.00	-8,142.41	97.97%	2,319,524.00
60184.1 - Administrative Leave	0.00	1,099.00	-1,099.00	0.0%	6,354.00
60185 - Vacation	25,477.65	18,647.00	6,830.65	136.63%	107,736.00
60186 - Sick Leave	4,577.18	12,830.00	-8,252.82	35.68%	74,127.00
60187 - Holidays	6,472.15	6,177.00	295.15	104.78%	92,660.00
Subtotal WM Paid Leaves	36,526.98	38,753.00	-2,226.02	94.26%	280,877.00
Total WM Salary Costs	429,341.57	439,710.00	-10,368.43	97.64%	2,600,401.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

LEGAL SERVICES
BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

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

CURRENT MONTH – AUGUST 2022

As of August 31, 2022, the total (YTD) Watermaster Legal Services expenses (consolidating the three categories of Watermaster Administrative Legal Services, Pool/Advisory/Board Meeting legal expenses, and OBMP legal expenses) were \$58,662 or 28.8% below the (YTD) budgeted amount of \$203,777.

The Watermaster Legal Services budget was developed jointly by the Watermaster staff and Brownstein Hyatt Farber Schreck staff with specific assumptions regarding the tasks and legal activities that would occur during FY 2022/23. The total legal services budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate. The “Approved” budget was adopted for the original amount of \$1,166,098.

Watermaster does not plan to present any Budget Transfers or Budget Amendments as of August 31, 2022.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070s) as of August 31, 2022 was \$22,056 or 28.7% above the budgeted amount of \$76,931. The specific items within the Administrative Legal Services expenses (6070s) which were over budget were Court Coordination expenses (6071) which were over budget by \$5,873 or 43.5%; Personnel Matters expenses (6073) which were over budget by \$4,158 or 166.3%; Miscellaneous (6078) which were over budget by \$31,339 or 84.5%; and the Ely 3 Basin Investigation (6078.25) which were over budget by \$4,548 or 100%. Please see Note 1 on the following page for a more detailed explanation of the miscellaneous types of expenses (6078).

The specific items within the Administrative Legal Services expenses (6070s) which were under budget were the expenses for Rules & Regulations (6072) under budget by \$14,745 or 100%; Interagency Issues (6074) under budget by \$6,936 or 100%; and Party Status Maintenance expenses (6077) under budget by \$2,180 or 100%.

WATERMASTER POOLS, ADVISORY AND BOARD LEGAL SERVICES:

The Pools, Advisory Committee and the Board meeting legal expenses from BHFS are captured by month within the accounts (6275, 6375, 6375.1, 8375, 8475 and 8575). The legal service costs associated with the Board Workshop(s) are also included as part of this group. Overall, this category of legal expenses as of August 31, 2022 was \$22,920 or 50.2% below the budgeted amount of \$45,641. Normal Brownstein Hyatt Farber Schreck meeting attendance during any given month includes attendance at all three pool meetings, one Advisory Committee meeting and one Board meeting.

There were no scheduled Pool or Advisory Committee meetings during the month of July. However, during July there was a Robert’s Rules of Order Workshop held, as well as a Special Board meeting. The legal services budget was developed with the assumption of having eleven months of meetings, intentionally excluding the month of December 2022.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were all below the budget for the month. As of August 31, 2022, the category of OBMP legal expenses were \$57,799 or 71.2% below the budgeted amount of \$81,205.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of August 31, 2022 compared to the Year-To-Date (YTD) budget. Please be advised that the “\$ Over Budget” and the “% of Budget” columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '22 - Aug '22 Actual	Jul '22 - Aug '22 Budget	\$ Over Budget	% of Budget	FY 2022/23 Annual Budget
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	19,372.86	13,500.00	5,872.86	143.5%	74,250.00
6072 · BHFS Legal - Rules & Regulations	0.00	14,745.00	-14,745.00	0.0%	88,480.00
6073 · BHFS Legal - Personnel Matters	6,657.75	2,500.00	4,157.75	266.31%	10,300.00
6074 · BHFS Legal - Interagency Issues	0.00	6,936.00	-6,936.00	0.0%	41,616.00
6077 · BHFS Legal - Party Status Maintenance	0.00	2,180.00	-2,180.00	0.0%	13,080.00
6078 · BHFS Legal - Miscellaneous (Note 1)	68,408.50	37,070.00	31,338.50	184.54%	222,420.00
6078.25 · BHFS - Ely 3 Basin Investigation	4,547.96	0.00	4,547.96	100.0%	0.00
Total 6070 · Watermaster Legal Services	98,987.07	76,931.00	22,056.07	128.67%	450,146.00
6275 · BHFS Legal - Advisory Committee	465.75	4,624.00	-4,158.25	10.07%	25,432.00
6375 · BHFS Legal - Board Meeting	16,045.65	14,760.00	1,285.65	108.71%	81,180.00
6375.1 · BHFS Legal - Board Workshop(s)	0.00	8,917.00	-8,917.00	0.0%	26,750.00
8375 · BHFS Legal - Appropriative Pool	2,070.00	5,780.00	-3,710.00	35.81%	31,790.00
8475 · BHFS Legal - Agricultural Pool	2,070.00	5,780.00	-3,710.00	35.81%	31,790.00
8575 · BHFS Legal - Non-Ag Pool	2,070.00	5,780.00	-3,710.00	35.81%	31,790.00
Total BHFS Legal Services	22,721.40	45,641.00	-22,919.60	49.78%	228,732.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	1,917.00	-1,917.00	0.0%	11,505.00
6907.32 · Chino Airport Plume	0.00	1,917.00	-1,917.00	0.0%	11,505.00
6907.33 · Desalter/Hydraulic Control	0.00	5,904.00	-5,904.00	0.0%	35,420.00
6907.34 · Santa Ana River Water Rights	0.00	3,270.00	-3,270.00	0.0%	19,620.00
6907.36 · Santa Ana River Habitat	0.00	4,777.00	-4,777.00	0.0%	28,660.00
6907.38 · Reg. Water Quality Cntrl Board	931.50	8,529.00	-7,597.50	10.92%	51,170.00
6907.39 · Recharge Master Plan	2,123.10	2,180.00	-56.90	97.39%	13,080.00
6907.40 · Storage Agreements	0.00	2,693.00	-2,693.00	0.0%	16,155.00
6907.41 · Prado Basin Habitat Sustainability	0.00	2,180.00	-2,180.00	0.0%	13,080.00
6907.44 · SGMA Compliance	0.00	1,571.00	-1,571.00	0.0% #	9,430.00
6907.45 · OBMP Update	12,243.60	21,033.00	-8,789.40	58.21% #	126,200.00
6907.47 · 2020 Safe Yield Reset	8,108.10	10,770.00	-2,661.90	75.28% #	64,620.00
6907.48 · Ely Basin Investigation	0.00	8,529.00	-8,529.00	0.0% #	51,170.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,935.00	-5,935.00	0.0%	35,605.00
Total 6907 · WM Legal Counsel	23,406.30	81,205.00	-57,798.70	28.82%	487,220.00
Total Brownstein, Hyatt, Farber, Schreck Costs	145,114.77	203,777.00	-58,662.23	71.21%	1,166,098.00

Note 1: The types of legal activities that have been charged against the "Miscellaneous" legal category account 6078 are as follows: (1) Correspondence and discussions with Watermaster staff regarding current issues/topics; (2) Correspondence with Watermaster staff regarding special projects (assessment package, replenishment obligations, annual report, audit report, business plan, etc.); (3) Brownstein's status review of ongoing Watermaster projects and issues; (4) Brownstein's update of the outstanding issues list; (5) Coordination of ongoing Watermaster projects; (6) Review of draft documents and contracts; (7) Review transfer documents; (8) Ground-Level Monitoring Committee reports/meetings; (9) CEQA review and compliance; (10) Desalter Replenishment obligations, assessment methodologies, and ongoing issues; (11) Master Cost Sharing Agreement with IEUA; (12) Estimation and adoption of an evaporative loss policy for Recharge; (13) Right of Entry Agreements for various locations; (14) Payment of Ag Legal Fees; (15) Ag Invoices; and (16) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

None

OBMP - WATERMASTER AND WEST YOST STAFF, ENGINEERING SERVICES, LEGAL SERVICES, AND OTHER COSTS

CURRENT MONTH – AUGUST 2022

Reviewing in total the OBMP Watermaster and West Yost Staff, Engineering Services, Legal Services, and Other Costs (consolidating the six categories of OBMP Watermaster and West Yost Staff, SAWPA, OBMP Engineering Services, OBMP Legal Costs, OBMP Update Costs, and OBMP Other Expenses) for the two months ending August 31, 2022, the actual expenses of \$147,597 were below the budgeted amount of \$338,391 by \$190,794 or 56.3%. For a detailed discussion, the following is provided.

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

For August 31, 2022, the accounts 6901 (Optimum Basin Mgmt. Program) section was above the Year-To-Date (YTD) budget by \$10,920 or 16.9%. Watermaster utilizes an in-house database time and attendance system to record and document staff's actual hours worked and also allocates those hours to a specific project or activity. Watermaster staff time could be charged to Judgment Administration, General Administrative, OBMP, or Program Elements 1-9 categories. Recently, Watermaster staff spent less time on specific OBMP related areas as budgeted. As a result, Watermaster staff allocated less actual time to the OBMP project as budgeted, which resulted in an under-budget variance of \$15,659 or 32.0%. West Yost staff, however, spent more time on general meetings and reporting activities, and as a result, was over budget by \$26,579 or 170.9%. When consolidated, the accounts 6901 (as stated earlier) were above the budget by \$10,920 or 16.9%.

For August 31, 2022, account (6903) for the Santa Ana Watershed Project Authority (SAWPA) FY 2022/23 Basin Monitoring Program Task Force Contribution was budgeted at \$21,458 and actual expenses were \$21,458.

For August 31, 2022, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$129,130 or 84.2%. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts over budget were the OBMP-Data Requests-Non CBWM Staff (6906.72) which were over budget by \$1,849 or 43.2%; and the OBMP-Engineering Services-Other expenses (6906) which were over budget by \$1,274 or 17.3%.

Within the 6906 categories, one account had funding "Carried-Over" from the previous fiscal year. The Integrated Model Meetings-IEUA Costs expenses (6906.15) had \$25,774 brought forward from the previous year. The amount of \$25,774 has been included in the FY 2022/23 "Amended" budget.

Within the category 6907 (Optimum Basin Mgmt. Program Legal Fees) are the remaining Brownstein Hyatt Farber Schreck (BHFS) Watermaster's legal expenses. Within the legal expense category, there were no line items which were above the budget. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$1,917; the Chino Airport Plume of \$1,917; the Desalter/Hydraulic Control of \$5,904; Santa Ana River Water Rights of \$3,270; the Santa Ana River Habitat of \$4,777; the Regional Water Quality Control Board of \$7,598; the Recharge Master Plan of \$57; Storage Agreements of \$2,693; the Prado Basin Habitat Sustainability of \$2,180; SGMA Compliance of \$1,571; the OBMP Update of \$8,789; the 2020 Safe Yield Reset of \$2,662; the Ely Basin Investigation expenses of \$8,529; and the WM Unanticipated legal expenses of \$5,935. The below budget items totaled \$57,799. For the two months ended August 31, 2022, the overall cumulative (YTD) budget was \$81,205 and the actual (BHFS) legal expenses totaled \$23,406 which resulted in an under-budget variance of \$57,799 or 71.2%.

The OBMP Update Costs (6908.1) were below the budget for the month. These expenses relate to the OBMP Update costs for the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The contract had a remaining amount available of \$16,345 as of the year-ended June 30, 2022 and that amount was "Carried-Over" into the FY 2022/23 budget. As of August 31, 2022, the actual expenses were \$13,247 or 81.0% below the budgeted amount of \$16,345. The budget has a remaining balance as of August 31, 2022 of \$13,247.

The OBMP Other Expenses (6909's) were below the budget for the month. These expenses are typically conference calls, meeting expenses, supplies, annual inspection fees, and other miscellaneous type expenses. As of August 31, 2022, this category of expenses was \$1,537 or 100% below the budgeted amount of \$1,537.

Overall, the Optimum Basin Management Program (OBMP) category was \$147,597 actual (YTD) compared to a budget (YTD) of \$338,391 for an under budget of \$190,794 or 56.4% as of August 31, 2022.

Watermaster does not plan to present any Budget Transfers or Budget Amendments as of August 31, 2022.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of August 31, 2022 compared to the Year-To-Date (YTD) budget. Please be advised that the “\$ Over Budget” and the “% of Budget” columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '22 - Aug '22 Actual	Jul '22 - Aug '22 Budget	\$ Over Budget	% of Budget	FY 2022/23 Annual Budget
6900 - Optimum Basin Mgmt Plan					
6901.1 - OBMP - Document Review-WM Staff	5,633.21	9,129.00	-3,495.79	61.71%	52,751.00
6901.3 - OBMP - Field Work-WM Staff	1,327.63	8,381.00	-7,053.37	15.84%	48,426.00
6901.5 - OBMP - General-WM Staff	16,990.80	11,806.00	5,184.80	143.92%	68,213.00
6901.7 - OBMP - Meeting-WM Staff	8,727.39	9,910.00	-1,182.61	88.07%	57,257.00
6901.8 - OBMP - Meeting-West Yost	29,455.31	6,759.00	22,696.31	435.79%	40,553.00
6901.9 - OBMP - Reporting-WM Staff	611.96	9,725.00	-9,113.04	6.29%	56,190.00
6901.95 - OBMP - Reporting-West Yost	12,675.50	8,792.00	3,883.50	144.17%	52,762.00
Total 6901 - OBMP WM and West Yost Staff	75,421.80	64,502.00	10,919.80	116.93%	376,152.00
6903 - OBMP - SAWPA Group	21,458.00	21,458.00	0.00	100.0%	21,458.00
Total 6903 - OBMP - SAWPA	21,458.00	21,458.00	0.00	100.0%	21,458.00
6906 - OBMP Engineering Services					
6906.1 - OBMP - Watermaster Model Update	0.00	0.00	0.00	0.0%	0.00
6906.15 - Integrated Model Mtgs. - IEUA Costs	0.00	25,774.00	-25,774.00	0.0%	25,774.00
6906.21 - State of the Basin Report	0.00	58,512.00	-58,512.00	0.0%	175,540.00
6906.26 - 2020 OBMP Update	2,928.50	46,133.00	-43,204.50	6.35%	276,799.00
6906.71 - OBMP - Data Requests - CBWM Staff	6,522.75	11,285.00	-4,762.25	57.8%	67,710.00
6906.72 - OBMP - Data Requests - Non CBWM	6,124.50	4,276.00	1,848.50	143.23%	25,656.00
6906 - OBMP Engineering Services - Other	8,638.00	7,364.00	1,274.00	117.3%	44,180.00
Total 6906 - OBMP Engineering Services	24,213.75	153,344.00	-129,130.25	15.79%	615,659.00
6907 - OBMP Legal Fees					
6907.3 - WM Legal Counsel					
6907.31 - Archibald South Plume	0.00	1,917.00	-1,917.00	0.0%	11,505.00
6907.32 - Chino Airport Plume	0.00	1,917.00	-1,917.00	0.0%	11,505.00
6907.33 - Desalter/Hydraulic Control	0.00	5,904.00	-5,904.00	0.0%	35,420.00
6907.34 - Santa Ana River Water Rights	0.00	3,270.00	-3,270.00	0.0%	19,620.00
6907.36 - Santa Ana River Habitat	0.00	4,777.00	-4,777.00	0.0%	28,660.00
6907.38 - Reg. Water Quality Cntrl Board	931.50	8,529.00	-7,597.50	10.92%	51,170.00
6907.39 - Recharge Master Plan	2,123.10	2,180.00	-56.90	97.39%	13,080.00
6907.40 - Storage Agreements	0.00	2,693.00	-2,693.00	0.0%	16,155.00
6907.41 - Prado Basin Habitat Sustainability	0.00	2,180.00	-2,180.00	0.0%	13,080.00
6907.44 - SGMA Compliance	0.00	1,571.00	-1,571.00	0.0%	9,430.00
6907.45 - OBMP Update	12,243.60	21,033.00	-8,789.40	58.21%	126,200.00
6907.47 - 2020 Safe Yield Reset	8,108.10	10,770.00	-2,661.90	75.28%	64,620.00
6907.48 - Ely Basin Investigation	0.00	8,529.00	-8,529.00	0.0%	51,170.00
6907.90 - WM Legal Counsel - Unanticipated	0.00	5,935.00	-5,935.00	0.0%	35,605.00
Total 6907 - WM Legal Counsel	23,406.30	81,205.00	-57,798.70	28.82%	487,220.00
6908 - OBMP Updates					
6908.1 - 2020 OBMP Update-Dodson & Assoc.	3,097.50	16,344.56	-13,247.06	18.95%	16,344.56
Total 6908 - OBMP Updates	3,097.50	16,344.56	-13,247.06	18.95%	16,344.56
6909 - OBMP Other Expenses					
6909.1 - OBMP Meetings	0.00	250.00	-250.00	0.0%	1,500.00
6909.3 - Other OBMP Expenses	0.00	454.00	-454.00	0.0%	2,724.00
6909.6 - OBMP Expenses - Miscellaneous	0.00	833.00	-833.00	0.0%	5,000.00
6909 - OBMP Other Expenses - Other	0.00	0.00	0.00	0.0%	0.00
Total 6909 - OBMP Other Expenses	0.00	1,537.00	-1,537.00	0.0%	9,224.00
Total 6900 - Optimum Basin Mgmt Plan	147,597.35	338,390.56	-190,793.21	43.62%	1,526,057.56

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

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

ENGINEERING SERVICES
WEST YOST ASSOCIATES

CURRENT MONTH – AUGUST 2022

As of August 31, 2022, the total (YTD) Engineering Services expenses were \$657,971 or 61.4% below the (YTD) budget amount of \$1,070,804. The Engineering Services were all under budget as of August 31, 2022, except for the Appropriative Pool Meetings-WY Staff expenses (8306) which were over budget by \$364 or 9.7%; OBMP-Meetings-WY Staff expenses (6901.8) which were over budget by \$22,696 or 335.8%; OBMP-Reporting-WY Staff expenses (6901.95) which were over budget by \$3,884 or 44.2%; the OBMP Engineering Services-Other expenses (6906) which were over budget by \$1,274 or 17.3%; the OBMP-Data Request-Non CBWM expenses (6906.72) which were over budget by \$1,849 or 43.2%; the Groundwater Level-Engineering expenses (7104.3) which were over budget by \$5,899 or 15.9%; the Groundwater Level-Capital Equipment expenses (7104.9) which were over budget by \$1,322 or 14.6%; the PE3&5-Engineering-Outside Professionals expenses (7306) which were over budget by \$16,375 or 451.7%; and the PE6&7-Engineering expenses (7502) which were over budget by \$17,479 or 29.6%.

The "Original" Approved budget for FY 2022/23 for Engineering Services was \$3,281,528. The Engineering Services budget was Amended with the addition of "Carry-Over" funding totaling \$478,328.10 which brought the FY 2022/23 "Amended" Budget amount to \$3,759,854.10.

West Yost Associates provides Watermaster a Progress and Estimated Cost at Completion (ECAC) report each quarter. The purpose of this (ECAC) report is to update Watermaster on whether or not the Engineering Services budget will be above or below budget at the end of the fiscal year. If the Engineering Services budget is expected to be above budget at fiscal year-end, a Budget Amendment or Budget Transfer Form would need to be approved to ensure funding.

The first quarter (ECAC) report is scheduled for issuance and distribution in early May 2022 for the period July 1, 2022 through March 31, 2022.

Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

The table listed below summarized the Year-To-Date (YTD) Actual West Yost Associates and other Engineering costs compared to the Year-To-Date (YTD) Budget as of August 31, 2022. Please be advised that the "\$ Over Budget" and the "% of Budget" columns are a comparison of the (YTD) Actual to the (YTD) Budget, not the 12-month Annual Budget. The 12-month Annual Budget column is presented only to provide the data in a full and complete format. The following details are provided:

	Jul '22 - Aug '22	Jul '22 - Aug '22	\$ Over Budget	% of Budget	FY 2022/23
	Actual	Budget			Annual Budget
5901.8 · JAdmin - Meetings-Engineering Services	556.00	6,759.00	-6,203.00	8.23%	40,552.00
5906.1 · JAdmin - Watermaster Model Update	0.00	11,945.00	-11,945.00	0.0%	71,674.00
5906.71 · JAdmin - Data Requests-CBWM Staff	902.50	11,285.00	-10,382.50	8.0%	67,710.00
5906.72 · JAdmin - Data Requests-Non-CBWM Staff	0.00	4,276.00	-4,276.00	0.0%	25,656.00
5925 · JAdmin - Ag Production & Estimation	12,765.25	31,917.00	-19,151.75	40.0%	79,877.00
5935 · JAdmin - Mat'l Physical Injury Requests	0.00	13,579.00	-13,579.00	0.0%	81,472.00
5945 · JAdmin - WM Annual Report Preparation	2,101.75	5,107.00	-3,005.25	41.15%	15,320.00
5965 · JAdmin - Support Data Collection & Mgmt Process	260.00	2,428.00	-2,168.00	10.71%	14,568.00
6206 · Advisory Committee Meetings-WY Staff	382.00	3,767.00	-3,385.00	10.14%	22,603.00
6306 · Watermaster Board Meetings-WY Staff	2,168.56	3,767.00	-1,598.44	57.57%	22,603.00
8306 · Appropriative Pool Meetings-WY Staff	4,131.06	3,767.00	364.06	109.66%	22,603.00
8406 · Agricultural Pool Meetings-WY Staff	729.00	3,767.00	-3,038.00	19.35%	22,603.00
8506 · Non-Agricultural Pool Meetings-WY Staff	364.50	3,767.00	-3,402.50	9.68%	22,603.00
6901.8 · OBMP - Meetings-WY Staff	29,455.31	6,759.00	22,696.31	435.79%	40,553.00
6901.95 · OBMP - Reporting-WY Staff	12,675.50	8,792.00	3,883.50	144.17%	52,762.00
6906 · OBMP Engineering Services - Other	8,638.00	7,364.00	1,274.00	117.3%	44,180.00
6906.15 · Integrated Model Mtgs-IEUA Cost	0.00	25,774.00	-25,774.00	0.0%	25,774.00
6906.21 · State of the Basin Report	0.00	58,512.00	-58,512.00	0.0%	175,540.00
6906.26 · 2020 OBMP Update	2,928.50	46,133.00	-43,204.50	6.35%	276,799.00
6906.71 · OBMP - Data Requests - CBWM Staff	6,522.75	11,285.00	-4,762.25	57.8%	67,710.00
6906.72 · OBMP - Data Requests - Non CBWM	6,124.50	4,276.00	1,848.50	143.23%	25,656.00
7104.3 · Grdwtr Level-Engineering	42,968.30	37,069.00	5,899.30	115.91%	222,417.00
7104.8 · Grdwtr Level-Contracted Services	0.00	1,667.00	-1,667.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	10,406.88	9,085.00	1,321.88	114.55%	9,085.00
7202 · PE2-Comp Recharge-Engineering Services	2,144.00	5,100.00	-2,956.00	42.04%	30,600.00
7202.2 · PE2-Comp Recharge-Engineering Services	8,533.75	104,975.00	-96,441.25	8.13%	153,572.00
7206.1 · SB88 Specs-Compliance-50% IEUA	0.00	54,012.38	-54,012.38	0.0%	54,012.38
7210 · OBMP - 2023 RMPU	32,047.25	70,155.25	-38,108.00	45.68%	247,588.25
7220 · Integrated Model Mtg/Tech. Review-50% IEUA	1,007.75	4,335.00	-3,327.25	23.25%	26,014.00
7302 · PE3&5-PBHSP Monitoring Program	3,649.12	32,657.00	-29,007.88	11.17%	90,937.00
7303 · PE3&5-Engineering - Other	0.00	3,296.00	-3,296.00	0.0%	19,776.00
7306 · PE3&5-Engineering - Outside Professionals	20,000.00	3,625.00	16,375.00	551.72%	21,750.00
7402 · PE4-Engineering	59,133.06	62,085.00	-2,951.94	95.25%	238,723.00
7402.10 · PE4-Northwest MZ1 Area Project	11,130.75	93,204.00	-82,073.25	11.94%	236,653.00
7403 · PE4-Eng. Services-Contracted Services-InSar	0.00	21,250.00	-21,250.00	0.0%	85,000.00
7406 · PE4-Engineering Services-Outside Professionals	0.00	5,195.00	-5,195.00	0.0%	31,167.00
7408 · PE4-Engineering Services-Network Equipment	3,593.94	7,201.00	-3,607.06	49.91%	18,210.00
7502 · PE6&7-Engineering	76,565.88	59,087.00	17,478.88	129.58%	354,520.00
7505 · PE6&7-Laboratory Services	1,194.00	10,447.00	-9,253.00	11.43%	54,207.00
7508 · HC Mitigation Plan-50% IEUA (TO #6)	0.00	11,836.00	-11,836.00	0.0%	21,016.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	1,492.72	73,018.47	-71,525.75	2.04%	73,018.47
7511 · PE6&7-SAWBMP Task Force-50% IEUA	3,770.50	3,985.00	-214.50	94.62%	23,909.00
7610 · PE8&9-Support 2020 Mgmt. Plan	0.00	43,220.00	-43,220.00	0.0%	43,220.00
7614 · PE8&9-Support Imp. Safe Yield Court Order	44,490.05	79,273.00	-34,782.95	56.12%	475,641.00
Total Engineering Services Costs	412,833.13	1,070,804.10	-657,970.97	38.55%	3,759,854.10 *

* West Yost and Subcontractor Engineering Budget of \$3,281,528 plus Carryover Funds from FY 2021/22 of \$478,326.10
Carryover Funds from FY 2021/22 of \$478,326.10 = \$22,325 (5925); \$25,774 (6906.15); \$1,085 (7104.9); \$21,000 (7302); \$5,000 (7408); \$95,256 (7202.2); \$54,012.38 (7206.1); \$34,668.25 (7210); \$26,758 (7402); \$64,515 (7402.1); \$1,694 (7505); \$10,000 (7508); \$73,018.47 (7510); and \$43,220 (7610).

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2022:

The explanations regarding the Carry-Over amount of \$478,328.10 from FY 2021/22 to the FY 2022/23 budget is provided as follows:

1. IEUA - Integrated Model Meetings and Technical Review - 50% IEUA Cost Share (Account 6906.15): \$51,548 (Watermaster's portion is \$25,774)
The requested carryover is necessary because this effort was planned for completion in FY 2021/22 but is now scheduled to be completed in FY 2022/23.

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

2. Groundwater Quality Monitoring Program (Account 7505 - formerly account 7103.5): \$1,694
The carryover is necessary for the laboratory cost for the HCMP GW and SW monitoring program. The work was completed in FY 2021/22, but the invoice has not yet been received from the laboratory.
3. Groundwater Level Monitoring Program (Account 7104.9): \$1,085
The requested carryover is necessary for the purchase of replacement transducer for the MZ1 transducer monitoring program. The work was completed in FY 2021/22, but the invoice has not yet been received from the subcontractor.
4. Ground Level - Capital Equipment (Account 7408 - formerly account 7107.8): \$5,000
The requested carryover is necessary for the of purchase of a replacement door at the Ayala Park Extensometer facility and for materials and equipment for the Pomona Extensometer Facility. These orders were made in FY 2021/22 but the invoices have not yet been received.
5. Prado Basin Habitat Monitoring, Data Analysis and Reporting - 50% IEUA Cost Share (Account 7302 - formerly account 7108.31) \$42,000 (Watermaster's portion is \$21,000)
The requested carryover is necessary to implement a recommendation in Prado Basin Habitat Sustainability Committee Annual Report for Water Year 2021 (approved in June 2021) to update the digital elevation model for the Prado Basin. This data will improve the estimates of current depth- to-groundwater in the study area, and in critical areas where there are observed declines in groundwater levels that could potentially threaten the quality of the riparian habitat.
6. Agriculture Production and Estimation (Account 5925 – formerly account 7110.3): \$22,325
The requested carryover is necessary to complete the Agriculture Production and Estimation work that was planned for completion in FY 2021/22 but is now scheduled to be completed in FY 2022/23.
7. PE2: Engineering Services for Other Recharge Improvement Projects (Account 7202.2): \$95,256
The requested carryover is necessary to finalize this work in FY 2022/23. The work includes conducting a life-cycle analysis at the San Sevaine 1 and Etiwanda Debris conservation berms and preparing a technical memorandum describing the analysis and conclusions. The scope and schedule for this work was refined with input from IEUA and Watermaster Staff in FY 2020/21. The work is to be completed in FY 2022/23.
8. SB88 Specification to Ensure Compliance with Regulations (Account 7206.1) - \$108,024 (GRCC's portion is \$54,012 and IEUA's portion is \$54,012)
The requested carryover is necessary to provide as-needed support to IEUA and Watermaster in implementing the recommendations described in the technical memorandum evaluating the existing methodology to estimate stormwater diversions in the Chino Basin.
9. 2023 RMPU Recharge Master Plan Scoping (Account 7210): \$34,668. The requested Carry-Over is necessary to complete the scope, budget and report outline the 2023 RMPU.
10. Management Zone Strategies - Data Analyses and Reports (Account 7402): \$26,758
The requested carryover is necessary because the GLMC annual report is prepared over two fiscal years and is completed in November. Not as much progress was made in FY 2021/22 as was anticipated. The unspent budget in FY 2021/22 is needed to complete the annual report.
11. Management Zone Strategies - Northwest MZ-1 (Account 7402.10): \$64,515
The requested carryover is necessary because this is a multi-year project to develop a subsidence management plan for the Northwest MZ-1, and not all tasks planned/budgeted in FY 2021/22 were completed and must be completed in FY 2022/23. This included the request by the GLCM to perform a sensitivity study on the 1D compaction models and the use of the 1D compaction models to evaluate the effectiveness of potential subsidence management strategies. Carryover needed to complete the

GLMC annual report. Tim Moore was on vacation and so we didn't make as much progress on this task as was anticipated in 2021/22.

12. Updated Plan - Mitigation Temp Loss of Hydraulic Control of Basin - 50% IEUA Cost Share (Account 7508): \$20,000 (Watermaster's portion is \$10,000)

The requested carryover is necessary to complete regulatory compliance support or add additional model simulations that may potentially be requested by the Regional Board based on its review of the submitted Plan.

13. IEUA - Update Recycled Water Permit - Salinity (Account 7510): \$81,214 (Watermaster's portion is \$73,019)

The requested carryover is necessary to complete the technical and regulatory compliance support work to update the Chino Basin Maximum Benefit Salt and Nutrient Management Plan. This multiyear project began FY 2017/18 and will continue through FY 2022/23.

14. PE 8/9: Support Implementation of the 2020 Storage Management Plan (Account 7610): \$43,220

This budget is for as-requested technical support to Watermaster staff, updating the information required for a complete Storage and Recovery Program application, updating the Storage and Recovery Program application forms, and updating the process to evaluate an application. No implementation activities occurred in FY 2021/22. The entire budget is requested to be carried over to FY 2022/23.

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

Ongoing Costs

Program costs that are ongoing (Ongoing Costs) will be cost-shared between Watermaster and IEUA, split on a 50/50 basis, subject to the following limitation: in each fiscal year, neither Watermaster nor IEUA shall be obligated to reimburse the other for Ongoing Costs that exceed the amount that the reimbursing party has budgeted for Ongoing Costs in that fiscal year, except as agreed upon by both parties in writing or as amended during the fiscal year. The first year expenses (FY 2016/17) to be cost shared were approximately \$300,000, with projected future years (FY 2017/18 and forward) estimated at approximately \$150,000. For the purposes of the agreement, Ongoing Costs are defined as the costs associated with the following Program activities:

1. A Riparian Habitat Monitoring Program, including, but not limited to, the following sub-tasks:
 - a. Design and implement a site-specific vegetation monitoring program with the United States Bureau of Reclamation (USBR) and Orange County Water District, pursuant to which USBR will perform site-specific vegetation surveys.
 - b. Manage and perform custom flight to collect a high resolution air photo of the Prado Basin Region.
 - c. Collect, check, and upload historical air photos and vegetation survey data in the Prado Basin region.
 - d. Collect, check, and upload historical Landsat data in the Prado Basin region.
2. A Climate Monitoring Program, including, but not limited to, the following sub-task:
 - a. Collect, check, and upload climatic data on an annual basis
3. Preparation of the AMP Annual Report (Annual Report), including, but not limited to, the following sub-tasks:
 - a. Water level monitoring, vegetation survey, photo monitoring, landsat data, climate data and analysis of the components.
 - b. Analyze data and prepare an administrative draft of the Annual Report for Watermaster/IEUA.
 - c. Incorporate the Watermaster and IEUA comments and prepare a draft Annual Report for review by the PBHSC.

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

- d. Meet with PBHSC to review draft Annual Report.
 - e. Incorporate PBHSC comments and finalize the Annual Report.
4. Annual license fees for monitoring wells.
 5. Project management and administration activities associated with the Program undertaken by a Party's consultant, including, but not limited to, the following sub-tasks:
 - a. Ad-Hoc Meetings
 - b. Preparation of scope and budget for the Program
 - c. Project administration and financial reporting
 6. Other costs required to fulfill the requirements of Peace II Subsequent EIR mitigation measure 4.4-3. Watermaster shall be responsible for the costs associated with the Groundwater Level Monitoring Program, Groundwater Quality Monitoring Program, and Surface Water Monitoring Program.

Watermaster and IEUA shall each have responsibility for its own administrative costs, excluding the tasks and expenses included under Set-Up Costs and Ongoing Costs. Watermaster and IEUA will meet to review the cost-sharing structure under this agreement and negotiate necessary adjustments in good faith on at least an annual basis.

The Peace II SEIR does not explicitly state a duration for the monitoring and mitigation program. It is logical to assume that the program will last until the drawdown impacts, if any, on the riparian habitat from Peace II activities are fully manifested and not predicated to worsen, and that mitigation measures, if any are required, are fully implemented. This is not a perpetual agreement. Upon termination of the monitoring and any necessary mitigation obligations, the parties may elect to terminate the cost share agreement.

	West Yost Associates	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster
Jul. 2022 - Aug. 2022	\$ 7,298.25	\$ (3,649.13)	\$ -	\$ 3,649.13
Totals	\$ 7,298.25	\$ (3,649.13)	\$ -	\$ 3,649.13
		7302	7302	
Maximum Costs	\$ 183,374.00	\$ 91,687.00	\$ 91,687.00	\$ 91,687.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)
 None

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending August 31, 2022.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2022:

Per section VI.D.3 of the Groundwater Storage Program Funding Agreement No. 49960 in the Chino Basin with The Metropolitan Water District of Southern California, the FY 2022/23 annual administrative fee invoice was issued on July 1, 2022 in the amount of \$181,865.78 under invoice number 2022-07-CUP. Payment in the amount of \$181,865.78 was received and deposited on August 2, 2022.

POOL LEGAL SERVICES FUND ACCOUNTING

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

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 OAP, 8567 for the ONAP, and 8367 for the AP). 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. 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).

On August 15, 2022, the Appropriative Pool leadership instructed Watermaster to transfer the remaining amount due of \$75,868.59 to the Agricultural Pool Special Fund. This transfer will be reported as part of the accounting reports during the month of August 2022. The total amount received to date by the Agricultural Pool from the Appropriative Pool is \$267,442.88.

The following charts detail the Fund Accounts activity as of August 31, 2022:

Fund Balance for Agricultural Pool Account 8467 - Legal Services		Agricultural Pool Reserve Funds As shown on the B-3 Financial Report	
Beginning Balance July 1, 2020:	\$ -	Agricultural Pool Reserve Funds Balance as of June 30, 2020:	\$ 515,498.06
Additions:		Additions:	
Ag Pool Legal invoices issued Nov. 19, 2020 for \$500,000 with outstanding balance of \$384,736.12	\$ 115,263.88	AP payments w/o Escrow instructions (\$165,694.75 - \$161,070.09)	\$ 4,624.66
Admin Reserve used to cover shortfall *	\$ 102,557.12	Y-T-D Interest earned on Ag Pool Funds FY 2020/21, FY 2021/22	\$ 4,400.30
Ag Pool Legal invoices issued Nov. 18, 2021 for \$500,000 with outstanding balance of \$410,135.61	\$ 89,864.39	Payments rec'd on Wellhead Production invoices issued Sep. 2021	\$ 78,495.78
Subtotal Additions:	\$ 307,685.39	Payments rec'd on FY 2021/22 Ag Pool invoices issued Nov. 18, 2021 *	\$ 169,652.03
From Agricultural Pool Reserve Funds	\$ 429,932.75	Transfer of AP Settlement Funds	\$ 191,574.29
Total Additions:	\$ 737,618.14	Transfer of AP Settlement Funds (Balance due of \$75,868.59)	\$ -
Reductions:		Reductions:	
Invoices paid July 2020 - November 2020	\$ (217,821.00)	Actual vs. Budget Shortfall from FY 2019/20	\$ (165,694.75)
Invoices paid December 2020 - June 2021	\$ (220,365.00)	Mediation invoice paid	\$ (8,450.00)
Invoices paid July 2021 - June 2022	\$ (284,896.64)	Subtotal Reductions:	\$ (174,144.75)
Invoices paid July 2022 - August 2022	\$ (14,535.50)	Invoices paid December 2020 - June 2021	\$ (220,365.00)
Subtotal Reductions:	\$ (737,618.14)	Invoices paid July 2021 - June 2022	\$ (284,896.64)
Ending Fund Balance as of August 31, 2022	\$ -	Invoices paid July 2022 - July 2022	\$ (14,535.50)
		Total Reductions	\$ (693,941.89)
		Agricultural Pool Reserve Funds Balance as of August 31, 2022:	\$ 270,303.23
* The Admin Reserve amount of \$102,557.12 will need to be refunded back to Watermaster.		Note: Balance of \$270,303.23 as shown on the B-3 Financial Report	
		* FY 2021/22 Invoices for \$635,000 issued Nov. 18, 2021 with outstanding balance due of \$465,347.97 for Ag Pool Administration, Legal Services, and Special Projects.	

Fund Balance For Agricultural Pool Account 8470 - Meeting Compensation		Fund Balance For Agricultural Pool Account 8471 - Special Projects	
Beginning Balance July 1, 2022:	\$ 18,950.98	Beginning Balance July 1, 2022:	\$ 71,109.67
Additions:		Additions:	
Receipts from invoicing	\$ -	Receipts from invoicing	\$ -
Budget Transfers	\$ -	Subtotal Additions:	\$ -
Subtotal Additions:	\$ -	Reductions:	
Reductions:		Invoices paid July 2022 - August 2022	\$ (9,116.00)
Compensation paid July 2022 - August 2022	\$ (2,625.00)	Budget Transfers	\$ -
Subtotal Reductions:	\$ (2,625.00)	Subtotal Reductions:	\$ (9,116.00)
Ending Fund Balance as of August 31, 2022	\$ 16,325.98	Ending Fund Balance as of August 31, 2022	\$ 61,993.67

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

Fund Balance For Non-Agricultural Pool	
Account 8567 - Legal Services	
Beginning Balance July 1, 2022:	\$ 51,564.90
Additions:	
Pool Invoices issued	\$ -
Subtotal Additions:	<u>\$ -</u>
Reductions:	
Invoices paid July 2022 - August 2022	\$ (2,255.00)
Subtotal Reductions:	<u>\$ (2,255.00)</u>
Ending Fund Balance as of August 31, 2022	<u>\$ 49,309.90</u>

Fund Balance For Appropriative Pool	
Account 8367 - Legal Services	
Beginning Balance July 1, 2022:	\$ 3,803.11
Additions:	
Outstanding invoice payment received	\$ 422.29
Subtotal Additions:	<u>\$ 422.29</u>
Reductions:	
Invoices paid July 2022 - August 2022	\$ -
Accrued (not paid)	\$ -
Subtotal Reductions:	<u>\$ -</u>
Ending Fund Balance as of August 31, 2022	<u>\$ 4,225.40</u>

PREVIOUSLY REPORTED ACTIONS (Descending Order)
 None

“CARRY OVER” FUNDING
 BACKGROUND OF “CARRY OVER” FUNDING

CURRENT MONTH – AUGUST 2022

As of August 31, 2022, the total (YTD) amount remaining of the “Carried Over” funding is \$1,411,416.85 (\$1,541,640.96 – \$130,224.11 = \$1,411,416.85).

The following details are provided:

"Carried Over" Expenses At June 30, 2022

Human Resources Services	\$ 6,000.00	A	6013	FY 2020/21	ADMIN
Human Resources Services	\$ 6,000.00	A	6013	FY 2021/22	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 18,486.41	B	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$ 41,295.45	B	6038	FY 2020/21	ADMIN
Board Workshop Expenses - Misc.	\$ 14,000.00	C	6375.2	FY 2021/22	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$ 16,344.56	D	6908.1	FY 2020/21	OBMP
Meter Installation - New Meter Installation	\$ 175,400.00	E	7540	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$ 181,650.00	E	7545	FY 2018/19	OBMP
Agriculture Production and Estimation	\$ 8,096.75	F	5925	FY 2020/21	ENG
Agriculture Production and Estimation	\$ 14,228.25	F	5925	FY 2021/22	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ 1,791.12	G	6906.15	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$ 23,982.88	G	6906.15	FY 2021/22	ENG
Ground Water Level - Capital Equipment	\$ 1,085.00	H	7104.9	FY 2021/22	ENG
PBHSP - Monitoring, Data Analysis, Reporting	\$ 21,000.00	I	7302	FY 2021/22	ENG
Ground Level Monitoring - Capital Equipment	\$ 3,772.00	J	7408	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$ 1,228.00	J	7408	FY 2021/22	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ 76,814.15	K	7202.2	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$ 18,441.85	K	7202.2	FY 2021/22	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$ 54,012.38	L	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$ 34,668.25	M	7210	FY 2020/21	ENG
OBMP - Engineering Services	\$ 26,758.00	N	7402	FY 2021/22	ENG
PE4 - Northwest MZ-1 Area Project	\$ 64,515.00	O	7402.1	FY 2021/22	ENG
Groundwater Quality Monitoring Program	\$ 1,694.00	P	7505	FY 2021/22	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA	\$ 10,000.00	Q	7508	FY 2021/22	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ 36,797.47	R	7510	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$ 36,221.00	R	7510	FY 2021/22	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$ 43,220.00	S	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$ 15,062.88	T	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	T	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 238,646.90	U	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$ 200,000.00	V	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$ 3,803.11	W	8367	FY 2021/22	AP
Agricultural Pool - Mtg. Attendance Compensation	\$ 18,950.98	X	8470	FY 2021/22	OAP
Agricultural Pool - Special Project Funding	\$ 20,873.00	Y	8471	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$ 50,236.67	Y	8471	FY 2021/22	OAP
Non-Agricultural Pool - Legal Services	\$ 1,564.90	Z	8567	FY 2020/21	ONAP
Non-Agricultural Pool - Legal Services	\$ 50,000.00	Z	8567	FY 2021/22	ONAP
Total Balance, July 1, 2022	\$ 1,541,640.96				

"Carried Over" Balance, July 1, 2021	\$	1,541,640.96				
Less: (Invoices Received To Date FY 2022/23)						
Human Resources Services	\$	-	A	6013	FY 2020/21	ADMIN
Human Resources Services	\$	-	A	6013	FY 2021/22	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	(2,580.82)	B	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	-	B	6038	FY 2020/21	ADMIN
Board Workshop Expenses - Misc.	\$	(8,300.00)	C	6375.2	FY 2021/22	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$	(3,097.50)	D	6908.1	FY 2020/21	OBMP
Meter Installation - New Meter Installation	\$	-	E	7540	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	-	E	7545	FY 2018/19	OBMP
Agriculture Production and Estimation	\$	(8,096.75)	F	5925	FY 2020/21	ENG
Agriculture Production and Estimation	\$	(4,668.50)	F	5925	FY 2021/22	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$	-	G	6906.15	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$	-	G	6906.15	FY 2021/22	ENG
Ground Water Level - Capital Equipment	\$	(1,085.00)	H	7104.9	FY 2021/22	ENG
PBHSP - Monitoring, Data Analysis, Reporting	\$	(3,649.13)	I	7302	FY 2021/22	ENG
Ground Level Monitoring - Capital Equipment	\$	(3,593.94)	J	7408	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$	-	J	7408	FY 2021/22	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$	(8,533.75)	K	7202.2	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$	-	K	7202.2	FY 2021/22	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	-	L	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$	(32,047.25)	M	7210	FY 2020/21	ENG
OBMP - Engineering Services	\$	(26,758.00)	N	7402	FY 2021/22	ENG
PE4 - Northwest MZ-1 Area Project	\$	(11,130.75)	O	7402.1	FY 2021/22	ENG
Groundwater Quality Monitoring Program	\$	(1,194.00)	P	7505	FY 2021/22	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA	\$	-	Q	7508	FY 2021/22	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	(1,492.72)	R	7510	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	-	R	7510	FY 2021/22	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$	-	S	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$	-	T	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	-	T	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	-	U	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$	-	V	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$	-	W	8367	FY 2021/22	AP
Agricultural Pool - Mtg. Attendance Compensation	\$	(2,625.00)	X	8470	FY 2021/22	OAP
Agricultural Pool - Special Project Funding	\$	(9,116.00)	Y	8471	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$	-	Y	8471	FY 2021/22	OAP
Non-Agricultural Pool - Legal Services	\$	(1,564.90)	Z	8567	FY 2020/21	ONAP
Non-Agricultural Pool - Legal Services	\$	(690.10)	Z	8567	FY 2021/22	ONAP
Updated Balance as of August 31, 2022	\$	1,411,416.85				

Updated Balance as of July 1, 2021

Less: (Invoices Received To Date FY 2022/23)

Human Resources Services	\$	6,000.00	A	6013	FY 2020/21	ADMIN
Human Resources Services	\$	6,000.00	A	6013	FY 2021/22	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	15,905.59	B	6038	FY 2019/20	ADMIN
Other Office Equipment - Boardroom Upgrades	\$	41,295.45	B	6038	FY 2020/21	ADMIN
Board Workshop Expenses - Misc.	\$	5,700.00	C	6375.2	FY 2021/22	ADMIN
2020 OBMP Update - Tom Dodson & Associates	\$	13,247.06	D	6908.1	FY 2020/21	OBMP
Meter Installation - New Meter Installation	\$	175,400.00	E	7540	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	181,650.00	E	7545	FY 2018/19	OBMP
Agriculture Production and Estimation	\$	-	F	5925	FY 2020/21	ENG
Agriculture Production and Estimation	\$	9,559.75	F	5925	FY 2021/22	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$	1,791.12	G	6906.15	FY 2020/21	ENG
Integrated Model - Meetings - 50% IEUA Costs	\$	23,982.88	G	6906.15	FY 2021/22	ENG
Ground Water Level - Capital Equipment	\$	-	H	7104.9	FY 2021/22	ENG
PBHSP - Monitoring, Data Analysis, Reporting	\$	17,350.87	I	7302	FY 2021/22	ENG
Ground Level Monitoring - Capital Equipment	\$	178.06	J	7408	FY 2020/21	ENG
Ground Level Monitoring - Capital Equipment	\$	1,228.00	J	7408	FY 2021/22	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$	68,280.40	K	7202.2	FY 2020/21	ENG
PE2 - Comprehensive Recharge - Eng. Services	\$	18,441.85	K	7202.2	FY 2021/22	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	54,012.38	L	7206.1	FY 2020/21	ENG
OBMP - 2023 RMPU	\$	2,621.00	M	7210	FY 2020/21	ENG
OBMP - Engineering Services	\$	-	N	7402	FY 2021/22	ENG
PE4 - Northwest MZ-1 Area Project	\$	53,384.25	O	7402.1	FY 2021/22	ENG
Groundwater Quality Monitoring Program	\$	500.00	P	7505	FY 2021/22	ENG
Hydraulic Control Mitigation Plan Update-50% IEUA	\$	10,000.00	Q	7508	FY 2021/22	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	35,304.75	R	7510	FY 2020/21	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	36,221.00	R	7510	FY 2021/22	ENG
PE8&9 - Support Imp. 2020 Storage Mgmt. Plan	\$	43,220.00	S	7610	FY 2020/21	ENG
Upper Santa Ana River HCP (TO #7)	\$	15,062.88	T	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	5,000.00	T	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	238,646.90	U	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects/Refund	\$	200,000.00	V	7690.9	FY 2017/18	PROJ
Appropriative Pool - Legal Services	\$	3,803.11	W	8367	FY 2021/22	AP
Agricultural Pool - Mtg. Attendance Compensation	\$	16,325.98	X	8470	FY 2021/22	OAP
Agricultural Pool - Special Project Funding	\$	11,757.00	Y	8471	FY 2020/21	OAP
Agricultural Pool - Special Project Funding	\$	50,236.67	Y	8471	FY 2021/22	OAP
Non-Agricultural Pool - Legal Services	\$	-	Z	8567	FY 2020/21	ONAP
Non-Agricultural Pool - Legal Services	\$	49,309.90	Z	8567	FY 2021/22	ONAP
Updated Balance as of August 31, 2022	\$	1,411,416.85				

ADMINISTRATION SERVICES:

Unspent funds related to ongoing projects and associated activities from the Administration Services budget from FY 2021/22 totaling \$85,781.86 were "Carried Over" into the current FY 2022/23 budget. These funds were from the Human Resources Services [A] in the amount of \$12,000 in account (6013); Other Office Equipment-Boardroom Upgrades [B] in the amount of \$59,781.86 in account (6038); and Board Workshop

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

Expenses-Miscellaneous [C] in the amount of \$14,000 in account (6375.2). The total funds available are \$85,781.86.

OBMP ACTIVITIES:

The OBMP Update costs relate to the contract between Tom Dodson and Associates and CBWM to procure environmental review services for the 2020 OBMP Update. The original budget was \$225,500 and was approved during FY 2019/20. At the end of June 30, 2022 a remaining balance in the fund of \$16,344.56 was "Carried Over" into the current FY 2022/23 budget. The 2020 OBMP Update - Tom Dodson & Associates [D] in the amount of \$16,344.56 in account (6908.1).

Unspent funds related to ongoing projects and associated activities from the Agricultural area metering installation efforts budget from FY 2018/19 in several accounts totaling \$357,050 were "Carried Over" into the current FY 2022/23 budget. These funds were from the Meter Installation - New Meter Installation [E] in the amount of \$175,400 in account (7540); and Meter Installation - Calibration and Testing [E] in the amount of \$181,650 in account (7545). The total funds available are \$373,394.56.

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2021/22 in several accounts totaling \$478,326.10 were "Carried Over" into the current FY 2022/23 budget. These funds were from the Agriculture Production and Estimation [F] in the amount of \$22,325 in account (5925); Integration Model-Meetings-50% IEUU Costs [G] in the amount of \$25,774 in account (6906.15); Ground Water Level-Capital Equipment [H] in the amount of \$1,085 in account (7104.9); PBHSP-Monitoring, Data Analysis, and Reporting [I] in the amount of \$21,000 in account (7302); Ground Level Monitoring-Capital Equipment [J] in the amount of \$5,000 in account (7408); PE2-Comprehensive Recharge-Engineering Services [K] in the amount of \$95,256 in account (7202.2); SB88 Specs-Ensure Compliance [L] in the amount of \$54,012.38 in account (7206.1); OBMP-2023 RMPU [M] in the amount of \$34,668.25 in account (7210); OBMP-Engineering Services [N] in the amount of \$26,758 in account (7402); PE4-Northwest MZ1 Area Project [O] in the amount of \$64,515 in account (7402.1); Groundwater Quality Monitoring Program [P] in the amount of \$1,694 in account (7505); Hydraulic Control Mitigation Plan Update-50% IEUA Costs [Q] in the amount of \$10,000 in account (7508); IEUA-Update Recycle Water Permit-Salinity [R] in the amount of \$73,018.47 in account (7510); and PE8&9-Support Implementation of the 2020 Storage Management Plan [S] in the amount of \$43,220 in account (7610). The total funds available are \$478,326.10.

ONGOING RECHARGE IMPROVEMENT PROJECTS:

The Upper Santa Ana River HCP-Task Order #7 [T] has a remaining funded balance of \$20,062.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [U] has a remaining funded budget balance of \$238,646.90 in account (7690.8). The total funds available are \$258,709.78.

FUNDS ON HOLD FOR PROJECTS/REFUND:

The "Funds on Hold for Projects/Refund" [V] has a remaining budget from FY 2017/18 of \$200,000 in account (7690.9). By unanimous action of the Watermaster Board on June 24, 2021 the amount of \$1,234,582.42 was refunded to the Appropriative Pool with the November 2021 Assessment Package. The remaining amount of \$200,000 will be kept on hold until the warranty period for the San Sevaine Project has expired, and no warranty issues are noted.

POOL RELATED FUNDING;

The remaining funding items are strictly Pool related and are added to the FY 2022/23 budget to ensure proper funding is recorded and tracked. The Appropriative Pool Legal Services [W] in the amount of \$3,803.11 in account (8367); the Agricultural Pool Meeting Attendance Compensation [X] in the amount of \$18,950.98 in account (8470); the Agricultural Pool Special Project Funding [Y] in the amount of \$71,109.67 in account (8471); and the Non-Agricultural Pool Legal Services [Z] in the amount of \$51,564.90 in account (8567). The total funds available are \$145,428.66.

As invoices are received from the vendors and booked against these items listed above, the "Carried Over" balance will be reduced throughout the current fiscal year. At June 30, 2023, any remaining balances of the FY 2021/22 and prior years funding (if any), along with any new FY 2022/23 expenses, will then be "Carried Over" into the FY 2023/24 budget.

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

AUDIT FIELD WORK

CURRENT MONTH – AUGUST 2022

The auditors from the audit firm of Fedak & Brown LLP started the final field work for FY 2021/22 on September 19, 2022 through September 23, 2022. The plan was for the auditors not to be onsite at the Watermaster office for the final field audit. Instead, all of the audit schedules, accounts payable selections, accounts receivable selections, bank reconciliations, payroll and timesheet selections, and any other reports and information were provided to the auditors electronically via Dropbox software. This has been the same processed used for the past several years and has worked well for both Watermaster and the auditors. This was the completion of the final field work for the period of May 1, 2021 through June 30, 2022.

The Annual Financial and Audit Reports are tentatively scheduled for presentation to the Watermaster Board by Fedak & Brown LLP at the October 27, 2022 Board meeting. The Annual Financial and Audit Reports for FY 2021/22 are tentatively scheduled for posting to the Watermaster website no later than October 31, 2022.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2022:

The auditors from the audit firm of Fedak & Brown LLP started the interim field work for FY 2021/22 on June 13, 2022 through June 17, 2022. The plan was for the auditors not to be onsite at the Watermaster office for the interim field audit. Instead, all of the audit schedules, accounts payable selections, accounts receivable selections, bank reconciliations, payroll and timesheet selections, and any other reports and information were provided to the auditors electronically via Dropbox software. This has been the same processed used for the past several years and has worked well for both Watermaster and the auditors. This was the start of the interim field work for the period of July 1, 2021 through April 30, 2022. The final field work for the period of May 1, 2022 through July 31, 2022 has been tentatively scheduled for the week of September 19, 2022 through September 23, 2022.

FY 2022/23 EXHIBIT "G" NON-AGRICULTURAL POOL SALE OF WATER

CURRENT MONTH – AUGUST 2022

No Exhibit "G" activity to report for the month.

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

ASSESSMENTS AND OTHER INVOICING

CURRENT MONTH – AUGUST 2022

FY 2022/23 Assessment Package

There was no Assessment activity to report for the month.

PREVIOUSLY REPORTED ACTIONS (Descending Order)
None

ATTACHMENTS

1. Financial Report – B5

	1/12th (8.33%) of the Total Budget				2/12th (16.67%) of the Total Budget				100% of the Total Budget			
	For The Month of August 2022				Year-To-Date as of August 31, 2022				Fiscal Year End as of June 30, 2023			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
Income												
4010 - Local Agency Subsidies	0.00	0.00	0.00	0.0%	181,865.78	181,866.00	-0.22	100.0%	181,865.78	181,866.00	-0.22	100.0%
4110 - Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	9,279,425.00	9,279,425.00	0.00	100.0%
4120 - Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	285,135.00	285,135.00	0.00	100.0%
4130 - Admin Asmnts-Agricultural Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4700 - Non Operating Revenues	0.85	0.00	0.85	100.0%	1.78	0.00	1.78	100.0%	35,550.00	35,550.00	0.00	100.0%
4900 - Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Income	0.85	0.00	0.85	100.0%	181,867.56	181,866.00	1.56	100.0%	9,781,975.78	9,781,976.00	-0.22	100.0%
Gross Profit	0.85	0.00	0.85	100.0%	181,867.56	181,866.00	1.56	100.0%	9,781,975.78	9,781,976.00	-0.22	100.0%
Expense												
5900 - Judgment Administration	60,292.12	103,103.00	-42,810.88	58.48%	93,531.32	225,462.00	-131,930.68	41.48%	561,187.92	1,195,126.00	-633,938.08	46.96%
6010 - Admin. Salary/Benefit Costs	109,123.34	55,942.00	53,181.34	195.07%	206,288.33	121,749.00	84,539.33	169.44%	1,237,729.98	656,096.00	581,633.98	188.65%
6020 - Office Building Expense	11,475.76	10,975.00	500.76	104.56%	21,544.91	22,575.00	-1,030.09	95.44%	134,269.46	141,031.00	-6,761.54	95.21%
6030 - Office Supplies & Equip.	4,001.60	3,075.00	926.60	130.13%	8,930.68	66,181.86	-57,251.18	13.49%	89,148.96	96,181.86	-7,032.90	92.69%
6040 - Postage & Printing Costs	1,906.51	2,705.00	-798.49	70.48%	3,898.29	6,245.00	-2,346.71	62.42%	33,901.36	38,255.00	-4,353.64	88.62%
6050 - Information Services	15,827.41	15,872.00	-44.59	99.72%	35,908.63	36,264.00	-355.37	99.02%	172,974.64	177,624.00	-4,649.36	97.38%
6060 - Contract Services	1,217.03	6,831.00	-5,613.97	17.82%	2,749.04	9,431.00	-6,681.96	29.15%	53,384.12	57,960.00	-4,575.88	92.11%
6070 - Watermaster Legal Services	54,309.21	37,217.00	17,092.21	145.93%	98,987.07	76,931.00	22,056.07	128.67%	583,922.42	450,146.00	133,776.42	129.72%
6080 - Insurance	10,643.88	12,500.00	-1,856.12	85.15%	44,736.72	47,318.00	-2,581.28	94.55%	46,592.84	48,743.00	-2,150.16	95.59%
6110 - Dues and Subscriptions	0.00	1,350.00	-1,350.00	0.0%	16,562.87	18,150.00	-1,587.13	91.26%	40,625.74	41,475.00	-849.26	97.95%
6140 - WM Admin Expenses	534.54	487.00	47.54	109.76%	705.51	975.00	-269.49	72.36%	5,901.64	6,550.00	-648.36	90.1%
6150 - Field Supplies	0.00	350.00	-350.00	0.0%	923.36	1,350.00	-426.64	68.4%	2,770.08	3,200.00	-429.92	86.57%
6170 - Travel & Transportation	3,080.91	2,760.00	320.91	111.63%	5,245.49	5,295.00	-49.51	99.07%	25,974.96	28,970.00	-2,995.04	89.66%
6190 - Training, Conferences, Seminars	3,862.27	4,090.00	-227.73	94.43%	9,237.27	9,732.00	-494.73	94.92%	41,500.00	42,678.00	-1,178.00	97.24%
6200 - Advisory Committee Expenses	2,148.24	11,194.00	-9,045.76	19.19%	2,148.24	22,087.00	-19,938.76	9.73%	114,480.83	127,177.00	-12,696.17	90.02%
6300 - Watermaster Board Expenses	19,675.52	21,126.00	-1,450.48	93.13%	43,658.37	69,488.00	-25,829.63	62.83%	280,311.35	295,328.00	-15,016.65	94.92%
8300 - Approp Pool-WM & Pool Admin	11,415.02	12,895.00	-1,479.98	88.52%	11,518.53	29,245.11	-17,726.58	39.39%	146,242.12	150,101.11	-3,858.99	97.43%
8400 - Ag Pool-WM & Pool Admin	4,764.78	12,790.00	-8,025.22	37.25%	4,764.78	25,232.00	-20,467.22	18.88%	144,304.00	145,038.00	-734.00	99.49%
8467 - Ag Legal & Technical Services	14,535.50	20,833.00	-6,297.50	69.77%	14,535.50	41,667.00	-27,131.50	34.89%	152,213.00	250,000.00	-97,787.00	60.89%
8470 - Ag Meeting Attend -Special	1,625.00	0.00	1,625.00	100.0%	2,625.00	18,950.98	-16,325.98	13.85%	18,500.00	18,950.98	-450.98	97.62%
8471 - Ag Pool Expense	0.00	0.00	0.00	0.0%	9,116.00	71,109.67	-61,993.67	12.82%	9,116.00	71,109.67	-61,993.67	12.82%
8485 - Ag Pool - Misc. Exp. - Ag Fund	0.00	100.00	-100.00	0.0%	0.00	100.00	-100.00	0.0%	400.00	400.00	0.00	100.0%
8500 - Non-Ag Pool-WM & Pool Admin	5,231.29	11,893.00	-6,661.71	43.99%	6,541.29	116,043.90	-109,502.61	5.64%	149,247.74	227,494.90	-78,247.16	65.61%
9400 - Depreciation Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9500 - Allocated G&A Expenditures	-38,222.37	-32,583.00	-5,639.37	117.31%	-57,453.65	-65,165.00	7,711.35	88.17%	-325,775.36	-390,992.00	65,216.64	83.32%
6900 - Optimum Basin Mgmt Plan	72,431.32	137,952.00	-65,520.68	52.51%	147,597.35	338,390.56	-190,793.21	43.62%	1,501,992.36	1,526,057.56	-24,065.20	98.42%
7104 - Gdwtr Level Monitoring	49,133.51	22,024.00	27,109.51	223.09%	80,113.12	53,059.00	27,054.12	150.99%	269,255.32	217,197.00	52,058.32	98.92%
7200 - PE2- Comp Recharge Pgm	317,158.84	30,818.00	286,340.84	1,029.14%	334,163.85	520,927.63	-186,763.78	64.15%	1,629,060.12	1,653,951.63	-24,891.51	98.5%
7300 - PE3&5-Water Supply/Desalte	21,322.50	13,330.00	7,992.50	159.96%	23,649.12	47,510.00	-23,860.88	49.78%	172,919.44	178,553.00	-5,633.56	96.85%
7400 - PE4- Mgmt Plan	54,991.12	37,600.00	17,391.12	146.25%	73,857.75	194,246.00	-120,388.25	38.02%	626,399.56	632,897.00	-6,497.44	98.97%
7500 - PE6&7-CoopEfforts/SaltMgmt	44,931.01	42,123.00	2,808.01	106.67%	85,572.37	525,831.47	-440,259.10	16.27%	937,696.32	944,443.47	-6,747.15	99.29%
7600 - PE8&9-StorageMgmt/Conj Use	29,839.44	42,113.00	-12,273.56	70.86%	46,676.02	127,338.00	-80,661.98	36.66%	537,038.96	546,870.00	-9,831.04	98.2%
7690 - Recharge Improvements	0.00	29,833.00	-29,833.00	0.0%	0.00	1,000,678.78	-1,000,678.78	0.0%	1,295,000.00	1,299,011.78	-4,011.78	99.69%
9501 - Admin Expenses Allocated-OBMP	17,365.87	20,051.00	-2,685.13	86.61%	26,787.53	40,101.00	-13,313.47	66.8%	198,059.92	240,607.00	-42,547.08	82.32%

	1/12th (8.33%) of the Total Budget				2/12th (16.67%) of the Total Budget				100% of the Total Budget			
	For The Month of August 2022				Year-To-Date as of August 31, 2022				Fiscal Year End as of June 30, 2023			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
9502 - Admin Expenses Allocated-PE 1-9	20,856.50	12,532.00	8,324.50	166.43%	30,666.12	25,064.00	5,602.12	122.35%	127,715.44	150,385.00	-22,669.56	84.93%
Total Expense	925,477.67	703,881.00	221,596.67	131.48%	1,435,786.78	3,849,563.96	-2,413,777.18	37.3%	11,014,061.24	11,323,616.96	-309,555.72	97.27%
Net Ordinary Income	-925,476.82	-703,881.00	-221,595.82	131.48%	-1,253,919.22	-3,667,697.96	2,413,778.74	34.19%	-1,232,085.46	-1,541,640.96	309,555.50	79.92%
Other Income												
4210 - Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4220 - Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 - Interest Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4226 - LAIF Fair Market Value	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4227 - AP Escrow Interest	0.83	0.00	0.83	100.0%	1.65	0.00	1.65	100.0%	15.00	0.00	15.00	100.0%
4600 - Groundwater Sales	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4715 - Gain on Sale of Assets	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Income	0.83	0.00	0.83	100.0%	1.65	0.00	1.65	100.0%	15.00	0.00	15.00	100.0%
Other Expense												
5010 - Groundwater Replenishment	39,879.13	0.00	39,879.13	100.0%	39,879.13	0.00	39,879.13	100.0%	39,879.13	0.00	39,879.13	100.0%
5100 - Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9000 - Other Expenses	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 - Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 - Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 - Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996.5 - Refund-Basin O&M-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 - Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997.5 - Refund-Basin O&M-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 - Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 - To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other Expense	39,879.13	0.00	39,879.13	100.0%	39,879.13	0.00	39,879.13	100.0%	39,879.13	0.00	39,879.13	100.0%
Net Other Income	-39,878.30	0.00	-39,878.30	100.0%	-39,877.48	0.00	-39,877.48	100.0%	-39,864.13	0.00	-39,864.13	100.0%
Net Income	-965,355.12	-703,881.00	-261,474.12	137.15%	-1,293,796.70	-3,667,697.96	2,373,901.26	35.28%	-1,271,949.59	-1,541,640.96	269,691.37	82.51%

Note: Please see the staff report (Financial Report-B5) for additional detailed information on the account categories.

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	09/01/2022	23677	WEST YOST		1012 - Bank of America Gen'l Ckg	
Bill	07/31/2022	2050277		Modeling - WSIP - 100% IEUA	6906.14 · Modeling for WSIP-100% IEUA	5,617.25
Bill	07/31/2022	2050278		Watermaster Board Meetings	6306 · West Yost-Eng. Services-Board	191.00
Bill	07/31/2022	2050279		Other General Meetings as Requested	5901.8 · Admin-Meeting - West Yost	556.00
				Other General Meetings as Requested	6901.8 · OBMP - Meeting - West Yost	24,376.81
Bill	07/31/2022	2050280		Misc Data Requests - GM/Watermaster Staff	5906.71 · Admin-Data Req-CBWM Staff	902.50
				Misc Data Requests - GM/Watermaster Staff	6906.71 · OBMP-Data Req.-CBWM Staff	1,188.75
Bill	07/31/2022	2050295		Misc Data Requests - Non CBWM Staff/RFI	6906.72 · OBMP-Data Req.-Non CBWM Staff	4,241.25
Bill	07/31/2022	2050282		Annual Streamflow Monitoring Report - Water Righ	6901.95 · OBMP - Reporting - West Yost	2,395.50
Bill	07/31/2022	2050283		Project Management (FY 22/23)	6906 · OBMP Engineering Services	4,680.75
Bill	07/31/2022	2050284		GWQMP: KEY	7502 · PE6&7-Engineering	128.50
				GWQMP: DB-FIELD-LAB	7502 · PE6&7-Engineering	128.50
				DB-CBDC	7502 · PE6&7-Engineering	28,885.50
				HCMP: GWQ/SWQ - SARWC/NAWQA/SAR	7502 · PE6&7-Engineering	6,571.97
				HCMP: GWQ HCMP MWs	7502 · PE6&7-Engineering	408.50
				PBHSP: GWQMP	7502 · PE6&7-Engineering	64.25
				PBHSP: SWQMP	7502 · PE6&7-Engineering	954.57
				HCMP: GWQ/SWQ	7505 · PE6&7-Lab Services	1,194.00
Bill	07/31/2022	2050285		GWLMP: HCMP/GWR/MZ1/MZ3/MWL: SHCED	7104.3 · Grdwtr Level-Engineering	192.75
				GWLMP: HCMP/GWR/MZ1/MZ3/MWL: FIELD	7104.3 · Grdwtr Level-Engineering	792.75
				GWLMP: HCMP/GWR/MZ1/MZ3/MWL: DB-WL	7104.3 · Grdwtr Level-Engineering	4,005.00
				GWLMP: DB-CBDC	7104.3 · Grdwtr Level-Engineering	2,543.00
				GWLMP: Northwest MZ-1 Area	7104.3 · Grdwtr Level-Engineering	1,954.00
				GWLMP: PBHSP	7104.3 · Grdwtr Level-Engineering	144.25
				GWLMP: Capital Equipment (Transducers)	7104.9 · Grdwtr Level-Capital Equip	137.00
				Solinst Canada Ltd.	7104.9 · Grdwtr Level-Capital Equip	10,269.88
Bill	07/31/2022	2050286		Setup & Maintenance of Monitoring Network	7402 · PE4-Engineering	3,874.63
				Aquifer System Monitoring and Testing	7402 · PE4-Engineering	6,499.50
				Setup & Maintenance of Monitoring Network - Equi	7408 · PE4 - Network Equipment	80.00
Bill	07/31/2022	2050287		PBHSP - Vegetation Monitoring Program	7302 · PBHSP Monitoring Prog-Eng. Serv	2,919.75
				PBHSP - Climate Monitoring Program	7302 · PBHSP Monitoring Prog-Eng. Serv	1,540.75
				PBHSP - Meeting and Project Administration	7302 · PBHSP Monitoring Prog-Eng. Serv	192.75
Bill	07/31/2022	2050288		Agriculture Production Estimation (FY 22/23)	5925 · Ag Prod & Estimation-West Yost	3,328.00
				Land IQ, LLC - subconsultant	5925 · Ag Prod & Estimation-West Yost	2,650.00
Bill	07/31/2022	2050289		PE2 : Comprehensive Recharge Program (FY 22/2	7202.2 · Engineering Svc	7,633.75
Bill	07/31/2022	2050290		2023 Recharge Master Plan Update (FY 22/23)	7210 · OBMP - 2023 RMPU	4,725.25
Bill	07/31/2022	2050291		Data Analyses and Reports	7402 · PE4-Engineering	2,560.75
				Meetings and Administration	7402 · PE4-Engineering	358.00
				Aquifer - System Monitoring	7402.10 · PE4 - Northwest MZ1 Area Proj.	1,518.00
				Refine and Evaluate Subsidence Management Alt	7402.10 · PE4 - Northwest MZ1 Area Proj.	3,975.75

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	07/31/2022	2050292		Update IEUA's RW Permits/Max Benefit Salinity M	7510 · PE6&7-IEUA Salinity Mgmt. Plan	1,926.00
Bill	07/31/2022	2050293		Support Implementation fo the Safe Yield Court Or	7614 · PE8&9-Develop S&R Master Plan	16,292.55
Bill	07/31/2022	2050296		CVWD RFI - 100% CVWD	6906.13 · Billing to Others-100% Cost	9,013.50
TOTAL						<u>171,613.16</u>
Bill Pmt -Check	09/01/2022	ACH 090122	BANK OF AMERICA	XXXX-XXXX-XXXX-4026	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	XXXX-XXXX-XXXX-4026		Miscellaneous office supplies	6031.7 · Other Office Supplies	37.52
				Miscellaneous office supplies	6031.7 · Other Office Supplies	12.91
				International transaction fee for Doodle subscrip	6054 · Computer Software	0.36
				Doodle subscription renewal	6054 · Computer Software	12.10
				Acrobat Pro software	6054 · Computer Software	26.10
TOTAL						<u>88.99</u>
Bill Pmt -Check	09/06/2022	ACH 090622	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	09/01/2022	1394905143		Medical Insurance Premiums - September 2022	60182.1 · Medical Insurance	13,588.04
TOTAL						<u>13,588.04</u>
Bill Pmt -Check	09/06/2022	23678	ACCENT COMPUTER SOLUTIONS, INC.	153314	1012 · Bank of America Gen'l Ckg	
Bill	09/01/2022	153314		Monthly services - September 2022	6052.4 · IT Managed Services	5,021.95
				Overwatch - September 2022	6052.5 · IT Data Backup/Storage	699.00
				Omni Cloud - September 2022	6052.5 · IT Data Backup/Storage	188.00
				Office 365 Subscriptions - Business - Sep 2022	6052.4 · IT Managed Services	258.25
				Image Office Storage (per GB) - Sep 2022	6052.5 · IT Data Backup/Storage	754.00
TOTAL						<u>6,921.20</u>
Bill Pmt -Check	09/06/2022	23679	ACWA JOINT POWERS INSURANCE AUTHORITY	0692285	1012 · Bank of America Gen'l Ckg	
Bill	09/01/2022	0692285		Prepayment - October 2022	1409 · Prepaid Life, BAD&D & LTD	338.48
				September 2022	60191 · Life & Disab.Ins Benefits	338.48
TOTAL						<u>676.96</u>
Bill Pmt -Check	09/06/2022	23680	APPLIED COMPUTER TECHNOLOGIES	35601	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	35601		Database Consulting - August 2022	6052.2 · Applied Computer Technol	4,050.00
TOTAL						<u>4,050.00</u>
Bill Pmt -Check	09/06/2022	23681	CALIFORNIA BANK & TRUST	Account 6198	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	6198		Roberts Rules of Order Workshop supplies	6312 · Meeting Expenses	332.76
				ShoreTel / Mitel upgrade - phone system migration	6054 · Computer Software	1,293.36
				Supplies for 7/28/22 Special Board Meeting	6312 · Meeting Expenses	333.29
				Phones for system upgrade	6055 · Computer Hardware	162.52
				Team building event	6193 · Employee Training	178.40

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
				Team building event	6193 · Employee Training	214.08
				Employee recognition award	6031.7 · Other Office Supplies	115.26
				Miscellaneous office supplies	6031.7 · Other Office Supplies	7.89
				Miscellaneous office supplies	6031.7 · Other Office Supplies	42.59
				Miscellaneous office supplies	6031.7 · Other Office Supplies	49.27
				Miscellaneous office supplies	6031.7 · Other Office Supplies	83.57
				FedEx charge for return of Supernote	6042 · Postage - General	20.26
				Miscellaneous office supplies	6031.7 · Other Office Supplies	14.84
				Apple pen purchase	6055 · Computer Hardware	184.15
				Miscellaneous office supplies	6031.7 · Other Office Supplies	37.17
				Registration-PK-ACWA 2022 Fall Conference	6193.2 · Conference - Registration Fee	578.25
				Miscellaneous office supplies	6031.7 · Other Office Supplies	12.07
				Camera drone and accessories	6038 · Other Office Equipment	1,077.83
				IPad Pro and accessories	6055 · Computer Hardware	1,434.00
				Miscellaneous office supplies	6031.7 · Other Office Supplies	32.48
				Monitor purchase	6055 · Computer Hardware	307.04
				Team building event supplies	6141.3 · Admin Meetings	210.58
				Battery for Ford Expedition	6177 · Vehicle Repairs & Maintenance	211.41
				Supplies for staff meeting	6031.7 · Other Office Supplies	32.62
				Registration-ETF-ACWA 2022 Fall Conference	6193.2 · Conference - Registration Fee	362.49
				Registration-AN-ACWA 2022 Fall Conference	6193.2 · Conference - Registration Fee	362.49
				Miscellaneous office supplies	6031.7 · Other Office Supplies	21.16
				Miscellaneous office supplies	6031.7 · Other Office Supplies	33.48
				Miscellaneous office supplies	6031.7 · Other Office Supplies	104.32
				Supplies for staff training - CPR	6193 · Employee Training	60.99
				Miscellaneous office supplies	6031.7 · Other Office Supplies	159.10
				Miscellaneous office supplies	6031.7 · Other Office Supplies	14.86
				PK mtg w/E. Espinoza, C. Diggs	8312 · Meeting Expenses	50.03
				PK mtg w/C. Berch	8312 · Meeting Expenses	23.53
				PK mtg w/S. Adams - West Yost	6141.3 · Admin Meetings	115.85
TOTAL						8,273.99
Bill Pmt -Check	09/06/2022	23682	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/25/2022	8/25 Board Mtg		8/25/22 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	09/06/2022	23683	EMPOWER LAB	2443	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	2443		August 2022	6193 · Employee Training	1,125.00
TOTAL						1,125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	09/06/2022	23684	FAVELA, RUBY	Employee Expense Reimbursement	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022			Miscellaneous office supplies	6031.7 - Other Office Supplies	112.95
				Supplies-employee training and Executive Commit	6193 - Employee Training	117.51
				Supplies-Roberts Rules workshop & special board	6312 - Meeting Expenses	50.69
				Mileage reimbursement	6173 - Airfare/Mileage	18.69
				Staff meeting supplies	6141.3 - Admin Meetings	22.36
TOTAL						322.20
Bill Pmt -Check	09/06/2022	23685	FOLSOM, BETTY	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	08/24/2022	8/24 Conf Call		8/24/22 CBWM Coordination conference call	6311 - Board Member Compensation	125.00
Bill	08/25/2022	8/25 Board Mtg		8/25/22 Board Meeting	6311 - Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	09/06/2022	23686	GEYE, BRIAN	Non-Ag Pool and Board Member Compnesation	1012 - Bank of America Gen'l Ckg	
Bill	08/11/2022	8/11 Non Ag Pool Mtg		8/11/22 Non Ag Pool Meeting	8511 - Non-Ag Pool Member Compensation	125.00
Bill	08/18/2022	8/18 Advisory Comm		8/18/22 Advisory Committee Meeting	8511 - Non-Ag Pool Member Compensation	125.00
Bill	08/18/2022	8/18 Personnel Comm		8/18/22 Personnel Committee Meeting	8511 - Non-Ag Pool Member Compensation	125.00
Bill	08/25/2022	8/25 Board Mtg		8/25/22 Board Meeting - attended as alternate for	6311 - Board Member Compensation	125.00
TOTAL						500.00
Bill Pmt -Check	09/06/2022	23687	KESSLER ALAIR INSURANCE SERVICES, INC.	947389	1012 - Bank of America Gen'l Ckg	
Bill	08/30/2022	947389		8/30/22-6/30/23 Environmental Pollution Liability	6085 - Business Insurance Package	10,643.88
				07/01/23-08/30/23 Environmental Pollution Liability	1401 - Prepaid Insurance-Pkg	2,135.78
TOTAL						12,779.66
Bill Pmt -Check	09/06/2022	23688	PREMIERE GLOBAL SERVICES	30995121	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022	30995121		Fee - General	6022 - Telephone	39.00
				Fee - Confidential	6022 - Telephone	39.00
				Service fee	6022 - Telephone	8.50
				Call shortfall	6022 - Telephone	78.00
				Minimum commitment debit	6022 - Telephone	165.59
TOTAL						330.09
Bill Pmt -Check	09/06/2022	23689	SPECTRUM BUSINESS	2031978082322	1012 - Bank of America Gen'l Ckg	
Bill	08/25/2022	2031978082322		8/23/22-9/22/22	6053 - Internet Expense	1,105.31
TOTAL						1,105.31
Bill Pmt -Check	09/06/2022	23690	STATE COMPENSATION INSURANCE FUND	1000907866	1012 - Bank of America Gen'l Ckg	
Bill	09/01/2022	1000907866		Policy # 1970970 - Premium charge 8/26/22-9/26/22	60183 - Worker's Comp Insurance	1,011.91
TOTAL						1,011.91

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	09/06/2022	23691	TELLEZ-FOSTER, EDGAR	Employee Expense Reimbursement	1012 - Bank of America Gen'l Ckg	
Bill	09/06/2022			Reimbursement-airfare-ETF-9/19/22 Annual Grou	6173 - Airfare/Mileage	252.96
TOTAL						252.96
Bill Pmt -Check	09/06/2022	23692	TOM DODSON & ASSOCIATES	CBW271 22-2	1012 - Bank of America Gen'l Ckg	
Bill	08/23/2022	CBW271 22-2		July / August 2022	6908.1 - 2020 OBMP Update-Dodson & Assoc	3,097.50
TOTAL						3,097.50
Bill Pmt -Check	09/06/2022	23693	UNION 76	Vehicle Fuel Expenses	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022	7076224530355049		August 2022	6175 - Vehicle Fuel	259.03
TOTAL						259.03
Bill Pmt -Check	09/06/2022	23694	VANGUARD CLEANING SYSTEMS	114400	1012 - Bank of America Gen'l Ckg	
Bill	09/01/2022	114400		Monthly service - September 2022	6024 - Building Repair & Maintenance	915.00
TOTAL						915.00
Bill Pmt -Check	09/06/2022	23695	VISION SERVICE PLAN	815883620	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022	815883620		Vsion Insurance Premium - September 2022	60182.2 - Dental & Vision Ins	126.36
TOTAL						126.36
Bill Pmt -Check	09/06/2022	23696	PR MILLWORKS	Estimate #20	1012 - Bank of America Gen'l Ckg	
Bill	09/06/2022			Final payment on extension of board room desk	1840 - Capital Assets	2,100.00
TOTAL						2,100.00
General Journal	09/07/2022	22/09/06	HEALTH EQUITY	Health Equity Invoice 4171680	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4171680	1012 - Bank of America Gen'l Ckg	51.65
TOTAL						51.65
General Journal	09/08/2022	09/08/2022	Payroll and Taxes for 08/21/22-09/03/22	Payroll and Taxes for 08/21/22-09/03/22	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	Direct Deposits for 08/21/22-09/03/22	1012 - Bank of America Gen'l Ckg	38,019.54
			ADP, LLC	Payroll Taxes for 08/21/22-09/03/22	1012 - Bank of America Gen'l Ckg	14,262.52
			MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 08/21/22-09/03/22	1012 - Bank of America Gen'l Ckg	6,219.42
			MISSIONSQUARE RETIREMENT	401(a) EE Deductions for 08/21/22-09/03/22	1012 - Bank of America Gen'l Ckg	2,026.75
TOTAL						60,528.23
Bill Pmt -Check	09/08/2022	ACH 090822	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	09/02/2022	09/02/2022	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/21/22-09/03/22	2000 - Accounts Payable	10,714.30
TOTAL						10,714.30

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	09/09/2022	23697	BOWCOCK, ROBERT	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	08/11/2022	8/11 Non Ag Pool Mtg		8/11/22 Non Ag Pool Meeting	6311 - Board Member Compensation	125.00
Bill	08/18/2022	8/18 Advisory Comm		8/18/22 Advisory Committee Meeting	6311 - Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	09/09/2022	23698	BURRTEC WASTE INDUSTRIES, INC.	N2112939391	1012 - Bank of America Gen'l Ckg	
Bill	09/01/2022	N2112939391		September 2022	6024 - Building Repair & Maintenance	142.50
TOTAL						142.50
Bill Pmt -Check	09/09/2022	23699	CURATALO, JAMES	Board Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	08/09/2022	8/09 Board Officers		8/09/22 Board Officers Check-in	6311 - Board Member Compensation	125.00
Bill	08/11/2022	8/11 Appro Pool Mtg		8/11/22 Appropriative Pool Meeting	6311 - Board Member Compensation	125.00
Bill	08/18/2022	8/18 Personnel Comm		8/18/22 Personnel Committee Meeting	6311 - Board Member Compensation	125.00
Bill	08/23/2022	8/23 Board Agenda		8/23/22 Board Agenda Preview Meeting	6311 - Board Member Compensation	125.00
Bill	08/24/2022	8/24 Mtg w/JCSD		8/24/22 Meeting-Jurupa Community Services Distr	6311 - Board Member Compensation	125.00
Bill	08/25/2022	8/25 Boad Mtg		8/25/22 Boad Meeting	6311 - Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	09/09/2022	23700	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	08/11/2022	8/11 Ag Pool Mtg		8/11/22 Ag Pool Mtg	8470 - Ag Meeting Attend -Special	125.00
TOTAL						125.00
Bill Pmt -Check	09/09/2022	23701	FILIPPI, GINO	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
Bill	08/11/2022	8/11 Ag Pool Mtg		8/11/22 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	125.00
Bill	08/25/2022	8/25 Board Mtg		8/25/22 Board Meeting	8470 - Ag Meeting Attend -Special	125.00
TOTAL						250.00
Bill Pmt -Check	09/09/2022	23702	LAW OFFICE OF ALLEN W. HUBSCH	48	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022	48		Non-Ag Pool Legal Services - August 2022	8567 - Non-Ag Legal Service	1,320.00
TOTAL						1,320.00
Bill Pmt -Check	09/09/2022	23703	SPECIALIZED SERVICES OF SO CAL	VOID: 2286	1012 - Bank of America Gen'l Ckg	
TOTAL						0.00
Bill Pmt -Check	09/09/2022	23704	VANGUARD CLEANING SYSTEMS	Janitorial Services	1012 - Bank of America Gen'l Ckg	
Bill	08/31/2022	113295		Electrostatic spraying on 7/01, 7/14, 7/21 and 7/28	6024 - Building Repair & Maintenance	700.00
Bill	08/31/2022	114999		Electrostatic spraying on 8/04, 8/11, 8/18 and 8/25	6024 - Building Repair & Maintenance	700.00
TOTAL						1,400.00
Bill Pmt -Check	09/09/2022	23705	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 - Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	08/11/2022	8/11 Appro Pool Mtg		8/11/22 Appropriative Pool Meeting - Gardner	6311 · Board Member Compensation	125.00
Bill	08/25/2022	8/25 Board Mtg		8/25/22 Board Meeting - Gardner	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	09/13/2022	23706	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
Bill	09/13/2022	8000909000168851		Postage refill - 6/15/22	6042 · Postage - General	500.00
				Order 2 ink cartridges for machiner	6042 · Postage - General	248.02
TOTAL						748.02
Bill Pmt -Check	09/14/2022	23707	ACCENT COMPUTER SOLUTIONS, INC.	IT Services	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	153675		Cabling for San Sevaine	6038 · Other Office Equipment	787.50
Bill	08/31/2022	153741		Progress invoice for telephone migration project	6054 · Computer Software	350.00
TOTAL						1,137.50
Bill Pmt -Check	09/14/2022	23708	CORELOGIC INFORMATION SOLUTIONS	82146846	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	82146846		August 2022	7525 · PE6&7 - Computer Services	125.00
TOTAL						125.00
Bill Pmt -Check	09/14/2022	23709	FIRST LEGAL NETWORK LLC	40065685	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	40065685		Court filings for August 2022	6061.5 · Court Filing Services	1,022.03
TOTAL						1,022.03
Bill Pmt -Check	09/14/2022	23710	INLAND EMPIRE UTILITIES AGENCY	1800004862	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	1800004862		RTS Charges for FY 2022/2023	5018 · RTS Charges - IEUA	39,879.13
TOTAL						39,879.13
Bill Pmt -Check	09/14/2022	23711	R&D PEST SERVICES	330684	1012 · Bank of America Gen'l Ckg	
Bill	09/13/2022	330684		September 2022 - Treat office & annex-pest contrc	6024 · Building Repair & Maintenance	100.00
TOTAL						100.00
Bill Pmt -Check	09/14/2022	23712	RAUCH COMMUNICATION CONSULTANTS, INC	08-2213	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	08-2213		AR - work completed through July 2022	6061.3 · Rauch	195.00
TOTAL						195.00
Bill Pmt -Check	09/14/2022	23713	STAPLES BUSINESS ADVANTAGE	8067546547	1012 · Bank of America Gen'l Ckg	
Bill	09/10/2022	806546547		Chairs for boardroom	6031.7 · Other Office Supplies	165.91
TOTAL						165.91
Bill Pmt -Check	09/14/2022	23714	VERIZON WIRELESS	9915021557	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	9915021557		Acct #470810953-00002	6022 · Telephone	375.42

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						375.42
Bill Pmt -Check	09/14/2022	23715	INLAND EMPIRE UTILITIES AGENCY	90032471	1012 - Bank of America Gen'l Ckg	
Bill	09/08/2022	90032471		FY 22/23 Debt Service, 50% of Fixed Project Costs	7690.1 - Recharge Improvement Debt Pymts	482,303.00
TOTAL						482,303.00
General Journal	09/16/2022	09/16/2022	ADP, LLC	ADP Tax Service for 09/03/22-614436316	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	ADP Tax Service for 08/06/22-614436316	1012 - Bank of America Gen'l Ckg	170.93
			ADP, LLC	ADP Tax Service for 08/20/22-614436316	1012 - Bank of America Gen'l Ckg	170.93
			ADP, LLC	ADP Tax Service for 09/03/22-614436316	1012 - Bank of America Gen'l Ckg	170.93
TOTAL						512.79
General Journal	09/20/2022	09/20/2022	HEALTH EQUITY	Health Equity Invoice 4215645	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4215645	1012 - Bank of America Gen'l Ckg	943.05
TOTAL						943.05
Bill Pmt -Check	09/21/2022	ACH 092122	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
General Journal	09/17/2022	09/17/2022	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/04/22-09/17/22	2000 - Accounts Payable	10,714.30
TOTAL						10,714.30
General Journal	09/22/2022	09/22/2022	Payroll and Taxes for 09/04/22-09/17/22	Payroll and Taxes for 09/04/22-09/17/22	1012 - Bank of America Gen'l Ckg	
			ADP, LLC	Direct Deposits for 09/04/22-09/17/22	1012 - Bank of America Gen'l Ckg	37,584.66
			ADP, LLC	Payroll Taxes for 09/04/22-09/17/22	1012 - Bank of America Gen'l Ckg	13,959.99
			MISSIONSQUARE RETIREMENT	457(b) EE Deductions for 09/04/22-09/17/22	1012 - Bank of America Gen'l Ckg	6,219.42
			MISSIONSQUARE RETIREMENT	401(q) EE Deductions for 09/04/22-09/17/22	1012 - Bank of America Gen'l Ckg	2,026.75
TOTAL						59,790.82
General Journal	09/23/2022	09/23/2022	HEALTH EQUITY	Health Equity Invoice 4128433	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4128433	1012 - Bank of America Gen'l Ckg	92.00
TOTAL						92.00
Bill Pmt -Check	09/27/2022	ACH 092722	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 - Bank of America Gen'l Ckg	
Bill	09/01/2022	16918610		Annual Unfunded Accrued Liability-Plan 3299	60180 - Employers PERS Expense	10,361.75
TOTAL						10,361.75
General Journal	09/27/2022	09/27/2022	HEALTH EQUITY	Health Equity Invoice 4251871	1012 - Bank of America Gen'l Ckg	
			HEALTH EQUITY	Health Equity Invoice 4251871	1012 - Bank of America Gen'l Ckg	272.44
TOTAL						272.44
Bill Pmt -Check	09/29/2022	23716	BLUERIDGE SOFTWARE, INC.	10882	1012 - Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	09/20/2022	Invoice# 10882		Annual support and maintenance 10/25/22-10/24/2	6054 · Computer Software	629.82
TOTAL						629.82
Bill Pmt -Check	09/29/2022	23717	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	907853-907865		907853-907865	BHFS Legal Expenses	83,618.16
TOTAL						83,618.16
Bill Pmt -Check	09/29/2022	23718	EGOSCUE LAW GROUP, INC.	Agricultural Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2022	13599		August 2022 - General Counsel	8467 · Ag Legal & Technical Services	8,685.50
Bill	08/31/2022	13585		July 2022 - General Counsel	8467 · Ag Legal & Technical Services	5,850.00
TOTAL						14,535.50
Bill Pmt -Check	09/29/2022	23719	FAVELA QUINTERO, RUBY	Employee Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
Bill	09/28/2022			Miscellaneous office supplies	6031.7 · Other Office Supplies	126.87
				RFQ Mileage	6173 · Airfare/Mileage	6.06
TOTAL						132.93
Bill Pmt -Check	09/29/2022	23720	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	09/20/2022	90948438900509145		Office fax	6022 · Telephone	188.85
TOTAL						188.85
Bill Pmt -Check	09/29/2022	23721	GREAT AMERICA LEASING CORP.	32441225	1012 · Bank of America Gen'l Ckg	
Bill	09/20/2022	32441225		Invoice for September 2022 - standard payment	6043.1 · Ricoh Lease Fee	1,399.43
				Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	10.72
				2022 CA San Bernardino County Property Tax	6043.3 · Ricoh Property Tax Fees	162.37
				Transitional Billing 8/25/22-9/09/22	6043.1 · Ricoh Lease Fee	746.36
				One-time Origination Fee	6043.1 · Ricoh Lease Fee	150.31
TOTAL						2,469.19
Bill Pmt -Check	09/29/2022	23722	LEGAL SHIELD	111802	1012 · Bank of America Gen'l Ckg	
Bill	09/20/2022	111802		Employee deductions - September 2022	60194 · Other Employee Insurance	109.60
TOTAL						109.60
Bill Pmt -Check	09/29/2022	23723	EASTVALE DEVELOPMENT COMPANY - PIERS	Ag Pool and Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	08/09/2022	8/09 Board Officers		8/9/22 Board Officers Conf. W/GM	6311 · Board Member Compensation	125.00
Bill	08/09/2022	8/9 Call AG Chair		8/9/22 Conference call w/ AG Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	08/11/2022	8/11 AG Pool Mtg.		8/11/22 Agricultural Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/11/2022	8/11 Call AG Chair		8/11/22 Conference Call w/ AG Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	08/18/2022	8/18 Pers. Com. w/GM		8/18/22 Personnel Committee Meeting W/GM	6311 · Board Member Compensation	125.00
Bill	08/18/2022	8/18 Advisory Mtg.		8/18/22 Advisory Meeting	8470 · Ag Meeting Attend -Special	125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	08/18/2022	8/18 RIPCom		8/18/22 Recharge Investigations & Projects Comm	8470 · Ag Meeting Attend -Special	125.00
Bill	08/23/2022	8/23 Board Agenda		8/23/22 Board Agenda Preview	6311 · Board Member Compensation	125.00
Bill	08/23/2022	8/23 GRCC		8/23/22 Ground Water Recharge Coordinating Cor	8470 · Ag Meeting Attend -Special	125.00
Bill	08/23/2022	8/23 Call AG Chair		8/23/22 Conference Call w/AG Pool Chairman	8470 · Ag Meeting Attend -Special	125.00
Bill	08/24/2022	8/24 Call AG Chair		8/24/22 Conference call w/AG Pool Chairman	8470 · Ag Meeting Attend -Special	125.00
Bill	08/25/2022	8/25 Board Meeting		8/25/22 Board Meeting	6311 · Board Member Compensation	125.00
Bill	08/25/2022	8/25 Call AG Chair		8/25 Conference Call w/AG Pool Chairman	8470 · Ag Meeting Attend -Special	125.00
Bill	08/26/2022	8/26 Call AG Chair		8/26 Conference Call w/ AG Pool Chairman	8470 · Ag Meeting Attend -Special	125.00
TOTAL						1,750.00
Bill Pmt -Check	09/29/2022	23724	PIETERSMA, RONALD	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	09/08/2022	9/08 Ag Pool Mtg		9/08/22 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						125.00
Bill Pmt -Check	09/29/2022	23725	PITNEY BOWES GLOBAL FINANCIAL SERVICE 3105743866		1012 · Bank of America Gen'l Ckg	
Bill	10/01/2022	3105743866		Lease	6044 · Postage Meter Lease	454.87
TOTAL						454.87
Bill Pmt -Check	09/29/2022	23726	PREMIERE GLOBAL SERVICES	31021530	1012 · Bank of America Gen'l Ckg	
Bill	09/28/2022	31021530		Fee - General	6022 · Telephone	39.00
				Fee - Confidential	6022 · Telephone	39.00
				Service fee	6022 · Telephone	8.50
TOTAL						86.50
Bill Pmt -Check	09/29/2022	23727	READY REFRESH	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	09/28/2022	0023230253		Office Water Bottle - September 2022	6031.7 · Other Office Supplies	85.35
TOTAL						85.35
Bill Pmt -Check	09/29/2022	23728	SPECIALIZED SERVICES OF SO CAL	2286	1012 · Bank of America Gen'l Ckg	
Bill	08/23/2022	2286		CPR Training for office - 8/23/2022	6193 · Employee Training	336.00
TOTAL						336.00
Bill Pmt -Check	09/29/2022	23729	SPECTRUM BUSINESS	2031978092322	1012 · Bank of America Gen'l Ckg	
Bill	09/28/2022	2031978092322		9/23/22-10/22/22	6053 · Internet Expense	1,105.31
TOTAL						1,105.31
Bill Pmt -Check	09/29/2022	23730	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	09/20/2022	6492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	1,117.50
TOTAL						1,117.50

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
September 2022

Financial Report - B6
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	09/29/2022	23731	TOM DODSON & ASSOCIATES	CBW271 22-3	1012 - Bank of America Gen'l Ckg	
Bill	09/27/2022	CBW271 22-3		September 2022	6908.1 - 2020 OBMP Update-Dodson & Assoc	5,557.50
TOTAL						<u>5,557.50</u>
Bill Pmt -Check	09/29/2022	23732	UNITED HEALTHCARE	052585086901	1012 - Bank of America Gen'l Ckg	
Bill	09/20/2022	052585086901		Dental Insurance Zpremium - October 2022	60182.2 - Dental & Vision Ins	938.49
TOTAL						<u>938.49</u>
Bill Pmt -Check	09/29/2022	23733	USA-FACT INC	2092226	1012 - Bank of America Gen'l Ckg	
Bill	09/28/2022	2092226		Background check - Moore	6016 - New Employee Search Costs	160.02
TOTAL						<u>160.02</u>
Bill Pmt -Check	09/29/2022	23734	VERIZON WIRELESS	9915698063	1012 - Bank of America Gen'l Ckg	
Bill	09/28/2022	9915698063		Acct #642073270-00002	7525 - PE6&7 - Computer Services	58.03
TOTAL						<u>58.03</u>
Bill Pmt -Check	09/29/2022	23735	VISION SERVICE PLAN	816113899	1012 - Bank of America Gen'l Ckg	
Bill	09/28/2022	816113899		Vision Insurance Premium - October 2022	60182.2 - Dental & Vision Ins	126.36
TOTAL						<u>126.36</u>
Bill Pmt -Check	09/29/2022	23736	WAXIE SANITARY SUPPLY	81190157	1012 - Bank of America Gen'l Ckg	
Bill	09/20/2022	81190157		Paper towel refills, soap for dispensers, air filters	6038 - Other Office Equipment	1,022.09
TOTAL						<u>1,022.09</u>
					Total Disbursements:	<u><u>1,028,639.27</u></u>

CHINO BASIN WATERMASTER

II. BUSINESS ITEMS

A. IEUA/JCSD/CBWM COST SHARING AGREEMENT OF BASIN PLAN AMENDMENT ENVIRONMENTAL REVIEW



CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: October 20, 2022

TO: Advisory Committee Members

SUBJECT: IEUA/JCSD/CBWM Cost Sharing Agreement of Basin Plan Amendment Environmental Review (Business Item II.A.)

SUMMARY:

Issue: A cost sharing agreement is necessary to fund the Basin Plan Amendment Environmental Review. [Advisory Committee Approval Required]

Recommendation: Approve the cost sharing agreement as presented.

Financial Impact: None

Future Consideration

Advisory Committee – October 20, 2022: Approval

Watermaster Board – October 27, 2022: Approval and give GM authority to sign

ACTIONS:

Appropriative Pool – October 13, 2022: Approved staff recommendation by majority vote.

Non-Agricultural Pool – October 13, 2022: Recommended by majority vote its representatives to support at Advisory Committee and Watermaster Board subject to changes they deem appropriate.

Agricultural Pool – October 13, 2022: Unanimously approved staff recommendation.

Advisory Committee – October 20, 2022:

Watermaster Board – October 27, 2022:

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

BACKGROUND

Inland Empire Utilities Agency (IEUA) owns and operates four treatment facilities that treat wastewater to tertiary standards prior to being recharged in the Chino Basin to support groundwater supply augmentation, be directly reused for irrigation, or discharge to streams and channels that are tributary to the Prado Basin Reservoir in the Santa Ana River. The discharge, reuse, and recharge of recycled water by IEUA are regulated under two permits held with the Santa Ana Regional Water Quality Control Board (Regional Board). Regional Board Order R8-2015-0036 (NPDES No. CA 8000409)¹ regulates the discharge and direct reuse of recycled water. Order R8-2007-0039² (as amended by R8-2009-0057³) regulates the recharge of recycled water for indirect potable reuse, and is a joint permit held by IEUA and Chino Basin Watermaster (Watermaster). Additionally, the reuse of recycled water is regulated by the Basin Plan as part of the maximum benefit commitments for the Chino Basin⁴.

The permits specify limitations for total dissolved solids (TDS) and nitrogen concentrations, along with limitations for many other chemical constituents. The TDS limitation of recycled water is characterized in these permits as follows:

The 12-month flow weighted running average TDS constituent concentration and mass emission rates shall not exceed 550 mg/L ... This limitation may be met on an agency-wide basis using flow weighted averages of the discharges from the Discharger's RP-1, RP-4, RP-5, and CCWRF...

The Basin Plan, specifically maximum benefit commitment number 9, specifies that:

Within 60 days after IEUA 12-month running average effluent concentration (measured as an average for all IEUA wastewater treatment facilities) for TDS exceeds 545 mg/L for 3 consecutive months, or the 12-month running average total inorganic nitrogen (TIN) concentration (measured as an average for all IEUA wastewater treatment facilities) exceeds 8 mg/L in any month, IEUA shall submit to the Regional Board a plan and time schedule for implementation of measures to insure that the 12-month running average agency wastewater effluent quality does not exceed 550 mg/L and 8 mg/L for TDS and TIN, respectively. The Plan and schedule are to be implemented upon Regional Board approval.

In 2015, the 12-month running average TDS concentration in recycled water produced by IEUA approached the 545 mg/L threshold that would require IEUA and Watermaster to submit a plan and schedule to manage recycled water TDS concentrations. Research performed by IEUA found that the primary driver for the increasing TDS concentration in its recycled water was an increase in the TDS concentration of the water supplies used by its member agencies. The increase may also be, in part, due to an increase of the TDS waste increment resulting from indoor water conservation.

¹ Order No. R8-2015-0036 and NPDES No. CA 8000409 - WASTE DISCHARGE REQUIREMENTS AND MASTER RECLAMATION PERMIT FOR INLAND EMPIRE UTILITIES AGENCY REGIONAL WATER RECYCLING FACILITIES – SURFACE WATER DISCHARGES AND RECYCLED WATER USE.

² Order No. R8-2007-0039 – Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster – Chino Basin Recycled Water Groundwater Recharge Program – Phase I and Phase II Projects in San Bernardino County

³ Order No. R8-2009-0057 Amending Order No. R8-2007-0039, Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster – Chino Basin Recycled Water Groundwater Recharge Program – Phase I and Phase II Projects in San Bernardino County

⁴ See Table 5-8a and pages 5-49 in the Basin Plan located here:

http://www.waterboards.ca.gov/rwqcb8/water_issues/programs/basin_plan/docs/2016/Chapter_5_February_2016.pdf

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

Although the 12-month running average TDS concentration declined from the 2015 peak before the three-consecutive-month trigger, it was an important indicator that the TDS concentration of recycled water is likely to approach or exceed the discharge limitation and trigger the planning for recycled water quality improvements during the next prolonged dry period. Given the potential cost of implementing recycled water quality improvements for what might only be short-term exceedances of the 12-months running average limitation, IEUA and Watermaster are interested in modifying the recycled water permits and the Basin Plan to allow for a longer-term averaging period for TDS concentrations. Watermaster will host a workshop on October 27, 2022 to detail the work and provide a status update on the work accomplished.

To obtain approval from the Regional Board for these permit and Basin Plan modifications, IEUA and Watermaster must perform a detailed evaluation and antidegradation analysis of the TDS concentration impacts to Chino Basin groundwater. The objective of the analysis is to compare the relative water quality and economic impacts of the existing and proposed regulatory compliance strategies. IEUA and Watermaster last performed an antidegradation analysis in June 2009, to support R8-2009-057, which amended R8-2007-039 to change the recycled water contribution averaging period from a 60-month to a 120-month period.

Recently, the Jurupa Community Services District (JCSD) applied to the Regional Board to begin using recycled water within its service area, which is largely within the Chino Basin. The source of recycled water is from the Western Riverside County Regional Wastewater Authority's (WRCRWA) treatment plant. To support the application for recycled water reuse, the Regional Board required JCSD to (1) perform an antidegradation analysis to determine the projected impact of the recycled water use on the portion of the three groundwater management zones (GMZs) within its service area (Chino-North, Chino-East, and Chino-South GMZs) and (2) demonstrate how the project is consistent with the Chino Basin Watermaster and IEUA's Maximum Benefit Salt and Nutrient Management Plan (SNMP) for the Chino-North GMZ. With support from Watermaster and IEUA, JCSD completed the required demonstrations, and the recycled water program was approved to move forward.

To enable it to move forward, the Regional Board staff has determined that the Basin Plan needs to be amended to allow the use of the WRCRWA recycled water source and to list JCSD as a responsible party for the Chino-North Maximum Benefit SNMP. Additionally, the Regional Board staff has required that the JCSD collaborate with Watermaster and IEUA to complete one single Basin Plan amendment to cover both the JCSD project and the Watermaster and IEUA's update to the compliance metrics for recycled water use.

To formalize the approved revision to the IEUA recycled water TDS compliance metric contained in the Basin Plan and in IEUA/Watermaster recycled water permits, the Basin Plan must be amended. As the RWQCB has described in regard to prior similar actions, the CA Secretary of Resources has certified the State Board's Basin Planning process as functionally equivalent to the preparation of an Environmental Impact Report (EIR) or a Negative Declaration pursuant to the California Environmental Quality Act (CEQA). However, in lieu of these more standard CEQA documents, the Regional Board is required to prepare the following:

- The Basin Plan amendment;
- An Environmental Checklist (Substitute Environmental Document [SED]) that identifies potentially significant adverse environmental impacts of the Basin Plan amendment; and,
- A staff report that describes the proposed amendment, reasonable alternatives, and mitigation measures to minimize any significant adverse environmental impacts identified in the Checklist.

The Basin Plan amendment, SED, and staff report together are functionally equivalent to an EIR or Negative Declaration.

The Regional Board is the "Lead Agency" for the Basin Plan Amendment. The SED is a review of the regulatory action being taken by the Board – it does not evaluate specific projects and is not a substitute for any CEQA process that must be performed by any permitting agency. For the SED, the "Project

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

Description” is the description of the regulatory action being taken by the Board. In the case of the current Basin Plan Amendment being prepared by the Regional Board (funded by Watermaster/IEUA/JCSD), the regulatory action is to (1) allow the longer-term averaging period for assessing IEUA recycled water TDS compliance, which includes certain modifications to the Maximum Benefit SNMP commitments and (2) enable JCSD to obtain permits to use recycled water in the Chino Basin. These changes have been deemed by the Regional Board to be consistent with Maximum Benefit.

DISCUSSION

IEUA, JCSD, and Watermaster will contract the services of Tom Dodson and Associates to perform the environmental review and to produce the Substitute Environmental Documents. The scope of work for this effort is contained in Attachment 2. Watermaster seeks Advisory Committee approval of the cost sharing agreement.

The item was presented to the three Pool Committees on October 13, 2022 and was recommended by majority vote by the AP and ONAP, and unanimously by the OAP, for Advisory Committee approval. The Background Section of this staff report has been expanded to address questions raised during the Committees’ discussions.

ATTACHMENTS

1. Agreement Between Chino Basin Watermaster, Inland Empire Utilities Agency, and Jurupa Community Services District Regarding Environmental Review of Proposed Basin Plan Amendment.
2. Scope of Work: CEQA Compliance Proposal for the Watermaster/Inland Empire Utilities Agency (IEUA) Salinity Program.

**AGREEMENT BETWEEN CHINO BASIN WATERMASTER, INLAND EMPIRE UTILITIES AGENCY,
AND JURUPA COMMUNITY SERVICES DISTRICT REGARDING ENVIRONMENTAL REVIEW OF
PROPOSED BASIN PLAN AMENDMENT**

This Cost Sharing Agreement (“Agreement”) is entered into as of October __, 2022, by and between the CHINO BASIN WATERMASTER (“Watermaster”), the INLAND EMPIRE UTILITIES AGENCY (“IEUA”), and the JURUPA COMMUNITY SERVICES DISTRICT (“JCSD”) (each a “Party” and collectively, the “Parties”) for the purposes of jointly funding the environmental review associated with a proposed Water Quality Control Plan for the Santa Ana River Basin (“Basin Plan”) Amendment (“Environmental Review”).

RECITALS

A. Watermaster is an agent of the Court and serves as the Court’s special master in order to administer and enforce the provisions of the Chino Basin Watermaster Judgment, San Bernardino County Superior Court Case No. RCV RS51010 (formerly Case No. SCV 164327);

B. IEUA is a regional public agency whose mission is to supply imported and recycled water; collect, treat, and dispose of wastewater; and provide other utility-related services to the communities it serves. IEUA strives to provide these services in a regionally planned, managed, and cost-effective manner;

C. JCSD is a multi-purpose special district providing water, sewer, wastewater treatment, park and recreation programs, graffiti abatement, and other essential services to the cities of Jurupa Valley and Eastvale in Riverside County;

D. IEUA and Watermaster are interested in modifying the recycled water permits and the Basin Plan for the Chino Basin to allow for a longer-term averaging period for assessing compliance with TDS concentration limits in recycled water and recharge. The work to support these modifications includes providing required assistance to the Regional Water Quality Control Board, Santa Ana Region, (“Regional Board”) to prepare a Basin Plan amendment;

E. JCSD has applied to the Regional Board to begin using recycled water within its service area, which is largely within the Chino Basin. The source of recycled water is from the Western Riverside County Regional Wastewater Authority’s (“WRCRWA”) treatment plant. To enable the recycled water project to move forward, the Regional Board has determined that the Basin Plan must be amended to allow the use of the WRCRWA recycled water source and to list JCSD as a responsible party for the Chino-North Maximum Benefit Salt Nutrient Management Plan (“SNMP”);

F. The Regional Board has required the Parties complete a single Basin Plan amendment to cover both the JCSD project and the Watermaster and IEUA’s update to the compliance metrics for recycled water use;

G. The California Environmental Quality Act (“CEQA”) requires the Regional Board

prepare and circulate a Substitute Environmental Document (“SED”). The SED will need to be prepared by a CEQA sub-consultant; and

H. The Parties desire to share the costs of this Environmental Review pursuant to the terms of this Agreement.

DRAFT

AGREEMENT TERMS

1. PURPOSE

Through this Agreement, the Parties wish to clarify the respective responsibilities of each Party for the Environmental Review.

2. SCOPE

This Agreement establishes a cost sharing arrangement for the Environmental Review, as defined in the Scope of Work attached as Exhibit A and incorporated by reference into this Agreement ("Scope of Work"). The total cost of the Environmental Review shall not exceed \$25,000.00.

3. IEUA RESPONSIBILITIES

3.1 IEUA will fund the Environmental Review in an amount not to exceed \$8,333.34. IEUA shall not fund any activities not described in the Scope of Work.

3.2 For any work related to preparation of the SED for the Basin Plan Amendment to incorporate Watermaster/IEUA Salinity Program performed by Tom Dodson & Associates ("TDA"), as described in the Scope of Work, IEUA will pay the invoices for such work from the money budgeted in the IEUA budget to fund the Scope of Work.

3.3 IEUA shall lead all aspects of Environmental Review administration (i.e., invoicing, grant funds, grant administration, sub-contractors, etc.).

4. WATERMASTER RESPONSIBILITIES

4.1 Watermaster will fund the Environmental Review in an amount not to exceed \$8,333.34. Watermaster shall not fund any activities not described in the Scope of Work.

4.2 For any work performed by TDA pursuant to the Scope of Work, Watermaster shall reimburse IEUA one-third of the expenditure from the money budgeted in the Watermaster budget to fund the Scope of Work.

4.3 Schedule of Payment

4.3.1 Within thirty (30) days of completion of the Scope of Work, Watermaster shall reimburse IEUA one-third of the final cost for payment of invoices to contractors on the Scope of Work.

4.3.2 These payments set forth in this Article 4 are obligations of Watermaster and shall survive the termination of this Agreement pursuant to Section 7 below.

5. JCSD RESPONSIBILITIES

5.1 JCSD will fund the Environmental Review in an amount not to exceed \$8,333.34. JCSD shall not fund any activities not described in the Scope of Work.

5.2 For any work performed by TDA pursuant to the Scope of Work, JCSD shall reimburse IEUA one-third of the expenditure.

5.3 Schedule of Payment

5.3.1 Within thirty (30) days of completion of the Scope of Work, JCSD shall reimburse IEUA one-third of the final cost for payment of invoices to contractors on the Scope of Work.

5.3.2 These payments set forth in this Article 5 are obligations of JCSD and shall survive the termination of this Agreement pursuant to Section 7 below.

6. BUDGET AND COST ALLOCATION

The Environmental Review shall be funded according to the following allocations:

Maximum IEUA contribution	\$8,333.34
Maximum Watermaster contribution	\$8,333.33
Maximum JCSD contribution	\$8,333.33
Maximum total Environmental Review costs	\$25,000.00

7. TERM

7.1 Term. This agreement shall remain in effect from October __, 2022 (“Effective Date”) through completion of the Environmental Review, unless terminated pursuant to Section 7.2, below.

7.2 Termination. This Agreement shall be mutually terminable at any time within each Party’s sole discretion. Termination shall not relieve the terminating party from its obligations accruing prior to termination, including the payment of monies due for work performed prior to the date of termination and project settlements costs thereof, which shall all be paid after receipt of an invoice as provided in Articles 4 and 5, above.

8. INDEMNITY

8.1 JCSD shall indemnify Watermaster and IEUA against and hold Watermaster and IEUA harmless from any and all claims, suits, losses, damages, and liability for damages of every name, kind and description, including attorneys' fees and other costs of defense incurred, brought for, or on account of, injuries to or death of any person, including, but not limited to, workers, the public, or damage to property, or any economic or consequential losses, which are claimed to or in any way arise out of or are connected with JCSD's activities pursuant to this Agreement. The provisions of this Section 8 shall survive termination of this Agreement.

8.2 IEUA shall indemnify Watermaster and JCSD against and hold Watermaster and JCSD harmless from any and all claims, suits, losses, damages, and liability for damages of every name, kind and description, including attorneys' fees and other costs of defense incurred, brought for, or on account of, injuries to or death of any person, including, but not limited to, workers, the public, or damage to property, or any economic or consequential losses, which are claimed to or in any way arise out of or are connected with IEUA's activities pursuant to this Agreement. The provisions of this Section 8 shall survive termination of this Agreement.

8.3 Watermaster shall indemnify IEUA and JCSD against and hold IEUA and JCSD harmless from any and all claims, suits, losses, damages, and liability for damages of every name, kind and description, including attorneys' fees and other costs of defense incurred, brought for, or on account of, injuries to or death of any person, including, but not limited to, workers, the public, or damage to property, or any economic or consequential losses, which are claimed to or in any way arise out of or are connected with Watermaster's activities pursuant to this Agreement. The provisions of this Section 8 shall survive termination of this Agreement.

9. GENERAL PROVISIONS

9.1 Notices. Any notice under this Agreement shall be deemed sufficient if given by one Party to the other in writing and: delivered in person; transmitted by electronic mail or facsimile (with acknowledgement of receipt provided by the receiving Party); or, by mailing the same by United States mail (postage prepaid, registered or certified, return receipt requested) or by Federal Express or other similar overnight delivery service, to the Party to whom the notice is directed at the address of such Party as follows:

If to Watermaster:
Chino Basin Watermaster
Attn: General Manager
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

If to IEUA:
Inland Empire Utilities Agency
Attn: General Manager
6075 Kimball Avenue
Chino, CA 91708

If to JCSD:
Jurupa Community Services District
Attn: General Manager
11201 Harrel Street
Jurupa Valley, CA 91752

Any communication given by mail shall be deemed delivered two (2) business days after such mailing date, and any written communication given by overnight delivery service shall be deemed delivered one (1) business day after the dispatch date. Any Party may change its address by giving the other Party notice of its new address.

9.2 Assignability. The Parties may not assign all or any part of this Agreement without advance written consent of each Party's governing board.

9.3 Waiver. No waiver by any Party of any of the provisions shall be effective unless explicitly stated in writing and executed by the Party so waiving. Except as provided in the preceding sentence, no action taken pursuant to this Agreement, including, without limitation, any investigation by or on behalf of any Party, shall be deemed to constitute a waiver by the Party taking such action of compliance with any representations, warranties, covenants, or agreements contained in this Agreement, and in any documents delivered or to be delivered pursuant to this Agreement. The waiver by any Party of a breach of any provision of this Agreement shall not operate or be construed as a waiver of any subsequent breach. No waiver of any of the provisions of this Agreement shall be deemed, or shall constitute, a waiver of any other provision, whether or not similar, nor shall any waiver constitute a continuing waiver.

9.4 Headings. The section headings contained in this Agreement are for convenience and reference only and shall not affect the meaning or interpretation of this Agreement.

9.5 Severability. If any term, provision, covenant or condition of this Agreement shall be or become illegal, null, void or unenforceable, the remaining provisions of this Agreement shall remain in full force and effect, and shall not be affected, impaired or invalidated. The term, provision, covenant or condition that is so invalidated, voided or held to be unenforceable, shall be modified or changed by the Parties to the extent possible to carry out the intentions and directives set forth in this Agreement.

9.6 Governing Law. This Agreement shall be governed by, and interpreted in accordance with, the laws of the State of California. This Agreement shall be specifically enforceable in the Court maintaining jurisdiction over the case Chino Basin Municipal Water District v. City of Chino, San Bernardino Superior Court Case No. RCV 51010.

9.7 Parties in Interest. Nothing in this Agreement, whether expressed or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any persons other than the Parties to it and their respective successors and assigns, nor is anything in this Agreement intended to relieve or discharge the obligation or liability of any third persons to any party to this Agreement, nor shall any provision give any third persons any right of

subrogation or action against any party to this Agreement.

9.8 Attorney Fees. In any dispute under this agreement between the Parties, each Party shall bear its own legal costs and expenses.

9.9 Good Faith. The Parties agree to exercise their best efforts and utmost good faith to effectuate all the terms and conditions of this Agreement and to execute such further instruments or documents as are necessary or appropriate to effectuate all of the terms and conditions of this Agreement.

9.10 Construction. The provisions of this Agreement should be liberally construed to effectuate its purposes. The language of all parts of this Agreement shall be construed simply according to its plain meaning and shall not be construed for or against any Party, as each Party has participated in the drafting of this document and had the opportunity to have their counsel review it. Whenever the context and construction so requires, all words used in the singular shall be deemed to be used in the plural, all masculine shall include the feminine and neuter, and vice versa.

9.11 Entire Agreement. This Agreement contains the entire understanding and agreement of the Parties with respect to the implementation and funding of the Environmental Review and supersedes all prior agreements and understandings, oral and written, between and among the Parties concerning the subject matter of this agreement. There have been no binding promises, representations, agreements, warranties or undertakings by any of the Parties, either oral or written, of any character or nature, except as stated in this Agreement. This Agreement may be altered, amended or modified only by an instrument in writing, executed by the Parties to this Agreement and by no other means. Each Party waives its future right to claim, contest or assert that this Agreement was modified, canceled, superseded or changed by any oral agreement, course of conduct, waiver or estoppels.

9.12 Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all of which shall constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have executed this Agreement on the day and year and at the place first written above.

CHINO BASIN WATERMASTER

INLAND EMPIRE UTILITIES AGENCY

By _____

By _____

Title _____

Title _____

JURUPA COMMUNITY SERVICES DISTRICT

By _____

Title _____

DRAFT

DRAFT

TOM DODSON & ASSOCIATES

Mailing Address: PO Box 2307, San Bernardino, CA 92406-2307
Physical Address: 2150 N. Arrowhead Avenue, San Bernardino, CA 92405

Tel: (909) 882-3612 ♦ Fax: (909) 882-7015 ♦ Email: tda@tdaenv.com



MEMORANDUM

August 26, 2022

From: Kaitlyn Dodson-Hamilton, Vice President

To: Edgar Tellez Foster, Water Resources Management and Planning Director
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

Pietro Cambiaso, Deputy Manager of Planning & Environmental Resources
Inland Empire Utilities Agency
6075 Kimball Avenue
Chino, CA 91708

Scott Lynch, Principal Engineer
Jurupa Community Services District
11201 Harrel Street
Jurupa Valley, CA 91752

Samantha Adams, Business Sector Leader
West Yost
23692 Birtcher Drive
Lake Forest, CA 92630

Subject: Scope of Work: CEQA Compliance Proposal for the Watermaster/Inland Empire Utilities Agency (IEUA) Salinity Program.

Tom Dodson & Associates (TDA) appreciates the opportunity to provide California Environmental Quality Act (CEQA) services to West Yost (WY) for the Watermaster/IEUA Salinity Program, which is anticipated to require a Substitute Environmental Document (SED) to support a Basin Plan Amendment with the Santa Ana Regional Water Quality Control Board (Regional Board). TDA will be responsible for preparing the SED for the Watermaster/IEUA Salinity Program. As stated above, preparation of the SED is required by the Regional Board in order to incorporate the Salinity Management Program into the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan). This work will involve:

- Review project proposals that describe what the Regional Board is approving
- Attend virtual kick off meeting with WY/Watermaster/IEUA/ Jurupa Community Services District (JCSD) to discuss any questions about the projects or SED process
- Attend scoping meeting, virtually or in-person

- Prepare draft SED document
 - It is anticipated that WY can prepare the draft project description and the economic analysis sections, in conjunction with TDA
- Attend 1-2 calls/virtual meetings with the Regional Board staff on the draft SED
- Prepare final SED based on review comments received from Regional Board and other stakeholders
- Project management, including attend 1-2 virtual calls with WY/Watermaster/IEUA/JCSD on progress

The total cost to complete the above tasks is anticipated to fall under a not to exceed fee of \$25,000. Below is our hourly fee schedule for reference.

Fee Schedule

Labor: Time spent on behalf of a client will be charged as follows:

Environmental Specialist I	\$165.00 / hour
Environmental Specialist II	\$115.00 / hour
Environmental Specialist III	\$75.00 / hour
Admin / WP / Graphics	\$50.00 / hour

Other Direct Costs: All other direct costs (subconsultants, supplies, printing, postage, etc.) are charged at actual cost plus a 10 percent management/handling charge. Mileage will be billed at \$0.625 per mile (based on market rate and may fluctuate up/down based on gas/oil prices).

Conclusion

The scope of work outlined above will lead to a fully substantiated CEQA environmental determination for the proposed project over a period anticipated to be about three to four months. All of the work effort outlined above will be performed in a timely manner, to meet identified schedules for this project. Kaitlyn Dodson-Hamilton will manage the work effort outlined above and will be the primary author of this document.

If this proposal is acceptable to IEUA, TDA is ready to initiate the work effort immediately upon authorization. This work effort will be scheduled and drafted closely with the West Yost Staff. The deliverable product for the proposed project will be a completed and substantiated SED for the Watermaster/IEUA Salinity Program summarized above. Should you have any questions regarding this proposal, please feel free to give me a call.

Sincerely,



Kaitlyn Dodson-Hamilton
Vice President

Authorization to Proceed / Acceptance of
Proposal:

CHINO BASIN WATERMASTER

III. REPORTS/UPDATES

E. INLAND EMPIRE UTILITIES AGENCY

1. MWD Update (Written)
2. State and Federal Legislative Reports (Written)
3. Community Outreach/Public Relations Report (Written)



CHINO BASIN WATERMASTER

ADVISORY COMMITTEE

October 20, 2022

INLAND EMPIRE UTILITIES AGENCY REPORTS

The following items are provided for receive and file.

- MWD Dry Year Yield Program Update
- Metropolitan Water District Activities Report
- Water Supply Conditions
- State and Federal Legislative Reports
- Community Outreach/Public Relations Report

MWD Dry Year Yield Program Update

For the month of October 2022, there was a reconciliation to the May 2022 certification to account for 16.1 AF of basin losses. The account balance is 0 AF.

DY Account Balance (June 2017-Present)	
"PUTS"	
Recharged water	58,371.82
ASR injection	4,935.70
"TAKES"	
CVWD	55,807.52
Fontana Water Co.	7,500.00
TOTAL	0.00

Month	Planned			Certified					
	Recharge	ASR	TAKES	Recharge	ASR	Losses	Basin Losses	TAKES***	
FY 16/17	June	6,000.0	-	-	6,318.7	-	3.8	-	-
	July	6,531.5	-	-	7,345.9	-	-	-	-
	August	6,531.5	-	-	7,074.8	-	6.7	-	-
	September	6,320.9	250.0	-	3,793.8	154.5	-	-	-
	October	2,922.6	250.0	-	4,538.1	277.6	249.3	-	-
	November	1,483.2	300.0	-	2,504.4	267.5	61.3	-	-
	December	1,222.4	400.0	-	3,639.3	276.4	285.8	-	-
FY 17/18	January	1,222.4	400.0	-	4,195.3	247.5	(86.0)	-	-
	February	1,222.4	400.0	-	-	316.2	-	-	-
	March	1,222.4	400.0	-	-	362.7	-	-	-
	April	1,695.7	100.0	-	-	287.0	-	-	-
	May	4,083.0	-	-	-	305.6	-	-	-
	June	6,143.9	-	-	-	-	-	-	4.4
FY 18/19	May	-	-	-	-	-	-	-	-
	June	5,000.0	350.0	-	4,413.5	389.4	185.4	29.0	-
	July	6,000.0	350.0	2,548.0	4,314.0	457.8	181.2	-	2,421.1
	August	6,000.0	350.0	2,852.0	4,803.9	434.2	201.8	-	2,861.4
	September	5,000.0	350.0	2,206.0	2,218.6	403.3	144.5	-	2,695.0
	October	4,000.0	350.0	1,874.0	1,842.5	277.3	105.8	-	2,922.3
	November	2,000.0	350.0	1,280.0	1,223.5	267.6	44.0	-	1,995.0
	December	2,000.0	350.0	971.0	1,176.3	211.1	17.6	-	500.0
FY 19/20	January	-	-	844.0	491.7	-	7.4	-	-
	February	-	-	780.0	-	-	-	-	-
	March	-	-	1,204.0	-	-	-	-	-
	April	-	-	1,710.0	-	-	-	-	-
	May	-	-	1,988.0	-	-	-	-	1,500.0
	June	-	-	1,743.0	-	-	-	32.2	2,500.0
FY 20/21**	July	-	-	2,700.0	-	-	-	-	2,700.0
	August	-	-	2,500.0	-	-	-	-	2,500.0
	September	-	-	2,500.0	-	-	-	-	2,500.0
	October***	-	-	5,000.0	-	-	-	-	5,000.0
	November	-	-	-	-	-	-	-	-
	December	-	-	3,500.0	-	-	-	-	3,500.0
	January	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-
	April	-	-	1,000.0	-	-	-	-	2,000.0
	May	-	-	2,600.0	-	-	-	-	2,600.0
	June	-	-	2,700.0	-	-	-	32.2	2,200.0
FY 21/22	July	-	-	2,900.0	-	-	-	-	2,800.0
	August	-	-	2,800.0	-	-	-	-	2,800.0
	September	-	-	2,800.0	-	-	-	-	2,600.0
	October	-	-	5,000.0	-	-	-	-	2,000.0
	November	-	-	-	-	-	-	-	6,800.0
	December	-	-	3,500.0	-	-	-	-	1,000.0
	January	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-
	April	-	-	1,000.0	-	-	-	-	2,400.0
	May	-	-	2,400.0	-	-	-	-	2,512.7
	June	-	-	2,600.0	-	-	-	16.1	-
FY 22/23	July	-	-	-	-	-	-	-	-
	August	-	-	-	-	-	-	-	-
	September	-	-	-	-	-	-	-	-
	October	-	-	-	-	-	-	-	-
	November	-	-	-	-	-	-	-	-
	December	-	-	-	-	-	-	-	-
	January	-	-	-	-	-	-	-	-
	February	-	-	-	-	-	-	-	-
	March	-	-	-	-	-	-	-	-
	April	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-
	June	-	-	-	-	-	-	-	-
	Subtotal	76,602.1	4,950.0	65,500.0	59,894.3	4,935.7	1,408.6	113.9	63,307.5
DY Account Total									0.00

*Estimated, not currently certified
 Note-- losses include ET losses at this time.
 January 2018 CB-15 certification corrected to include an additional 213.8 AF for a net credit of 86 AF.
 **June 2020 request was sent to all agencies to see if there was interest in voluntary withdrawals from the DY account. CVWD and Fontana Water Co. responded. Opportunity for additional voluntary withdrawals will be offered to all agencies in March 2021.
 *** DY Takes are for CVWD unless otherwise specified. October 2020 includes 2,500 AF certified Take from Fontana Water Co.



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT

Metropolitan Water District of Southern California (MWD) Board Activities Report

October 2022

DROUGHT STATUS

For more info contact:

Cathleen Pieroni, IEUA

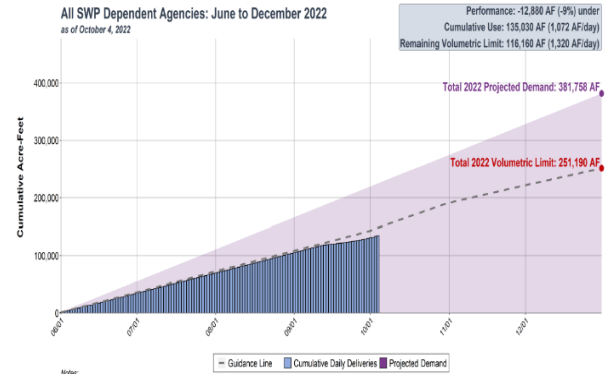
cpieroni@ieua.org

909.217.6943

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

MWD continued to stay within its State Water Project Allocation through September.

- Reductions are made possible with conservation and a switch onto local supplies and storage.
- The initial Table A Allocation for water year 2022-23 is anticipated to be very low as MWD and Department of Water Resources (DWR) storage has been largely depleted.



SUPPLY RELIABILITY

Pure Water Southern California

Pure Water Southern California is a partnership between MWD and Los Angeles County Sanitation Districts to purify used water from homes and businesses and deliver it across the region. MWD is requesting feedback and comments on the scope of the draft environmental impact report associated with the project. There is a potential for a connection between Pure Water Southern California and IEUA's service area that can deliver a new source of high-quality water to the Inland Empire.

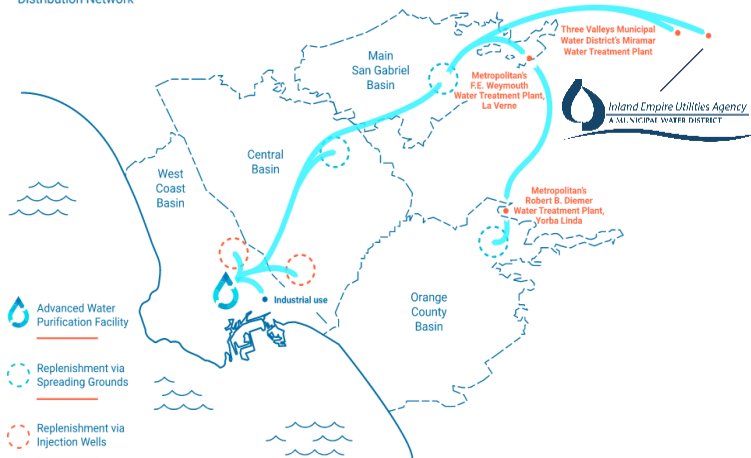
MWD Imported Water Allocation

With the continuation of the drought, the current allocation of imported water from MWD to the state water exclusive areas is scheduled for renewal on January 1, 2023.

- The imported water allocation includes regular deliveries and Human Health & Safety (HH&S) water from the DWR.
- While the future allocation numbers are not yet available, it has been communicated that starting in 2023, HH&S supplies for East Branch will be significantly lower.

PUREWATER
SOUTHERN CALIFORNIA

Distribution Network



Non-Functional Turf Resolution

MWD is considering for adoption a resolution that encourages the reduction or elimination of non-functional turf watered with potable water at the October 10th Board Meeting. Additional efforts to reduce watering non-functional turf by MWD include:

- Providing draft ordinance language for local municipality adoption.
- Adding recent grant funding to the turf removal program.
- Investigating possibility of state legislation.



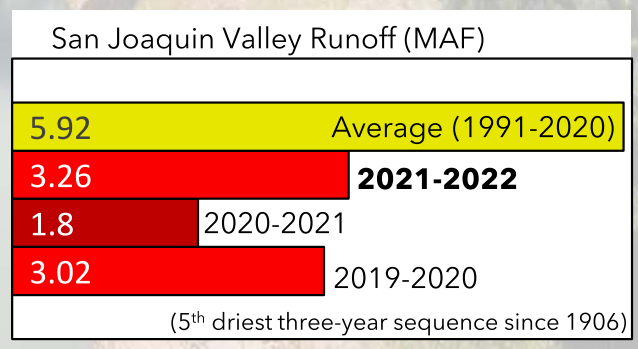
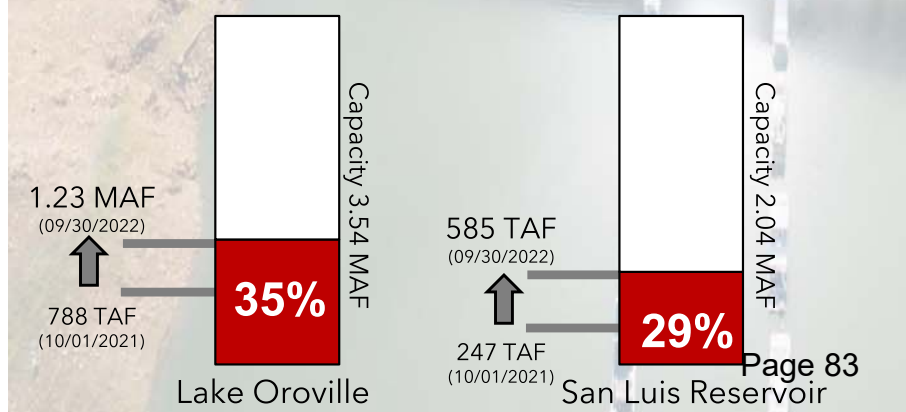
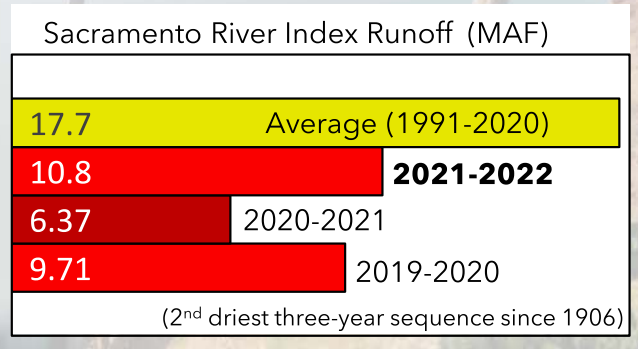
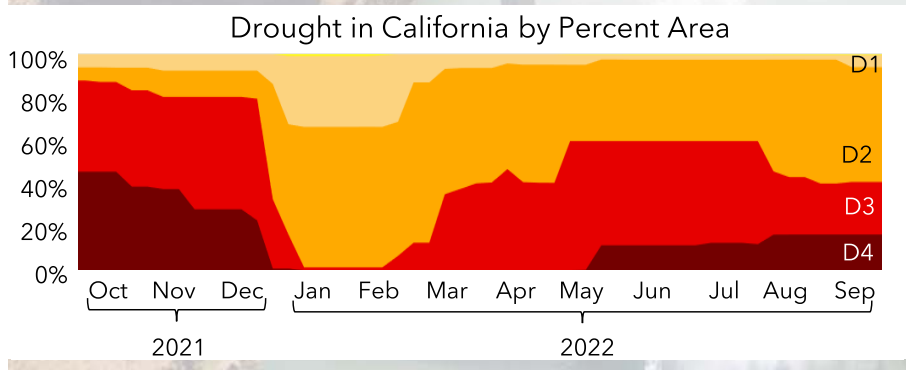
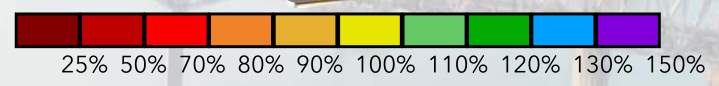
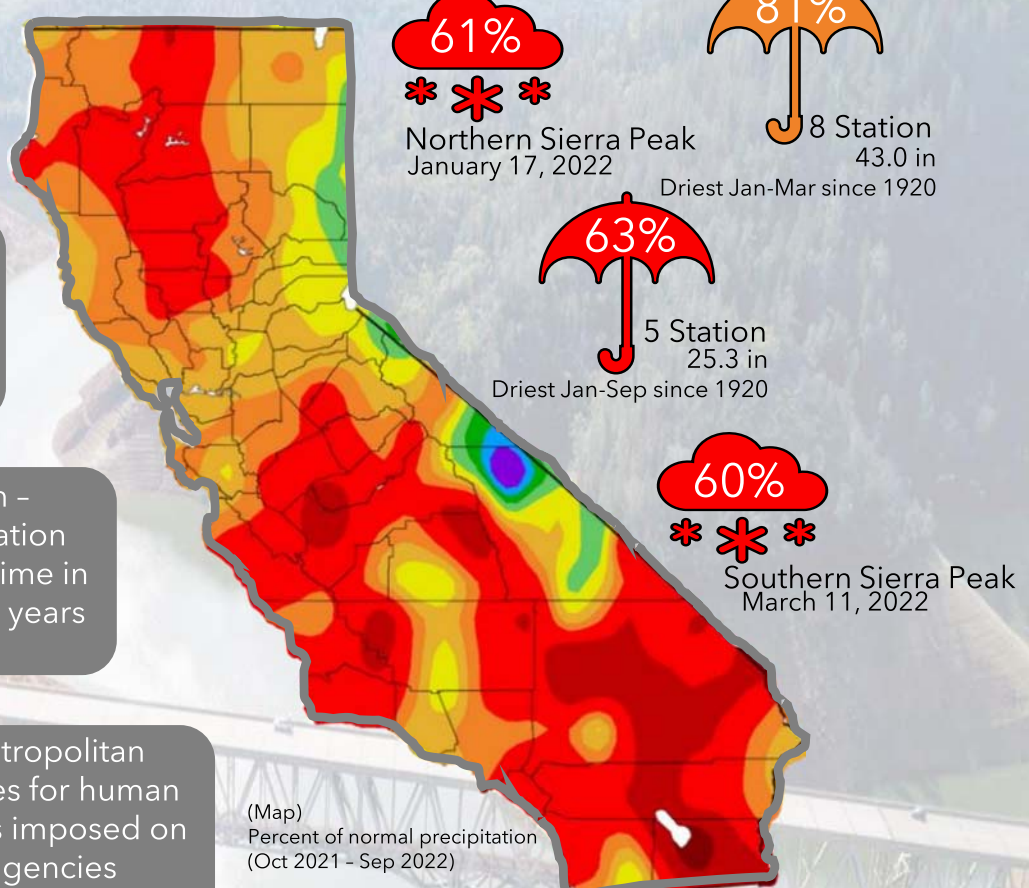
WATER SUPPLY CONDITIONS REPORT

<https://www.mwdh2o.com/WSCR>
 Produced by the Water Resource Management Group
 Questions? Email mferreira@mwdh2o.com

Water Year
2021-2022

State Water Project Resources

- DEC 2021**
 - Initial SWP allocation is 0% Table A
- JAN 2022**
 - Record precipitation in Oct and Dec 2021 => Increased SWP allocation to 15%
- MAR 2022**
 - Record breaking dry Jan - Mar 2022 => SWP allocation decreased to 5%. First time in history: two consecutive years with 5% SWP allocation
- JUN 2022**
 - First time in history: Metropolitan takes delivery of supplies for human health and safety. Limits imposed on Metropolitan member agencies dependent on the SWP



All stats are preliminary and may be subjected to change.



WATER SUPPLY CONDITIONS REPORT

<https://www.mwdh2o.com/WSCR>
 Produced by the Water Resource Management Group
 Questions? Email mferreira@mwdh2o.com

Water Year
 2021-2022

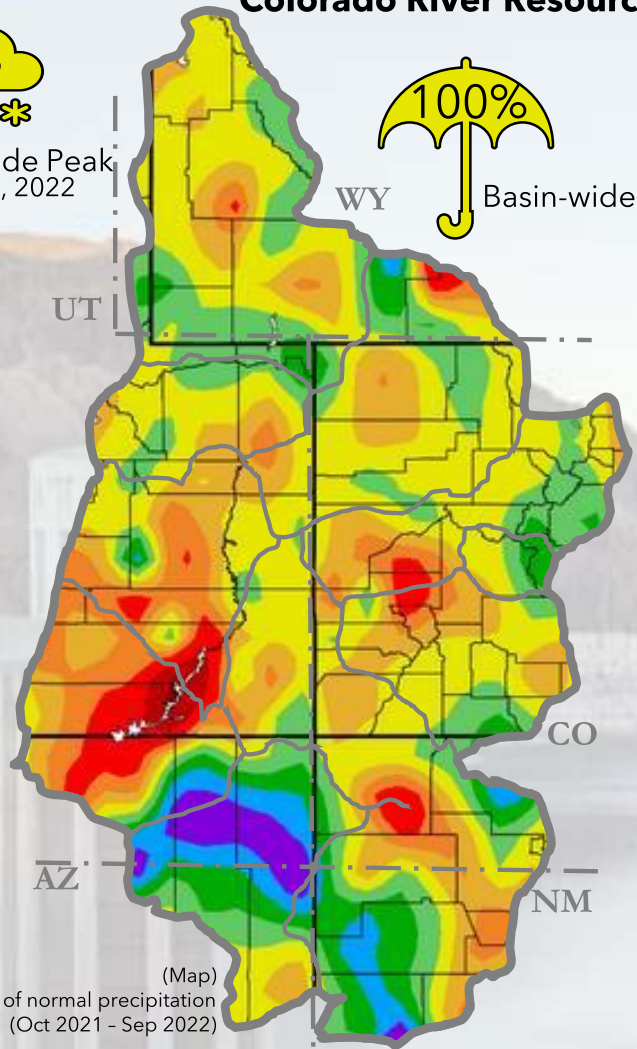
Colorado River Resources

91%
 * * *

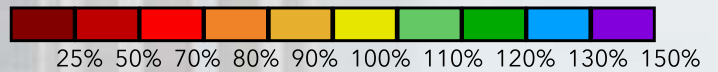
Basin-wide Peak
 March 18, 2022



Basin-wide

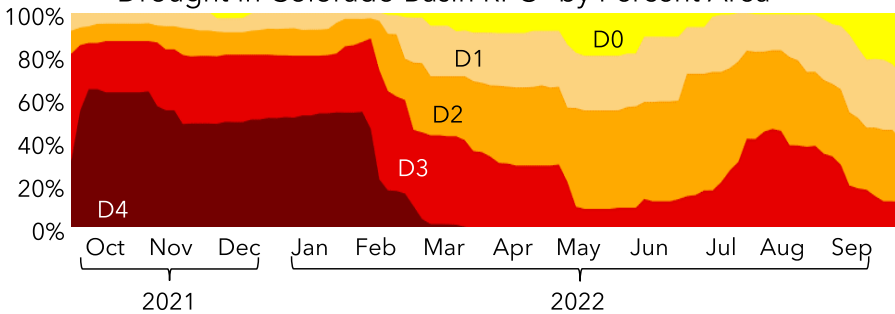


(Map)
 Percent of normal precipitation
 (Oct 2021 - Sep 2022)



- MAY 2022**
 - Releases from Glen Canyon Dam reduced from 7.48 MAF to 7.0 MAF to protect critical minimum power pool in Lake Powell
- JUN 2022**
 - Reclamation commissioner announced intention to protect critical elevations at Lake Powell and Lake Mead
- JUL 2022**
 - Reclamation held meeting to solicit input from stakeholders that could be incorporated into the NEPA process for post-2026 operating guidelines
- AUG 2022**
 - Reclamation sets the operating conditions for 2023, indicating Level 2a shortage with cuts for Arizona, Nevada and Mexico

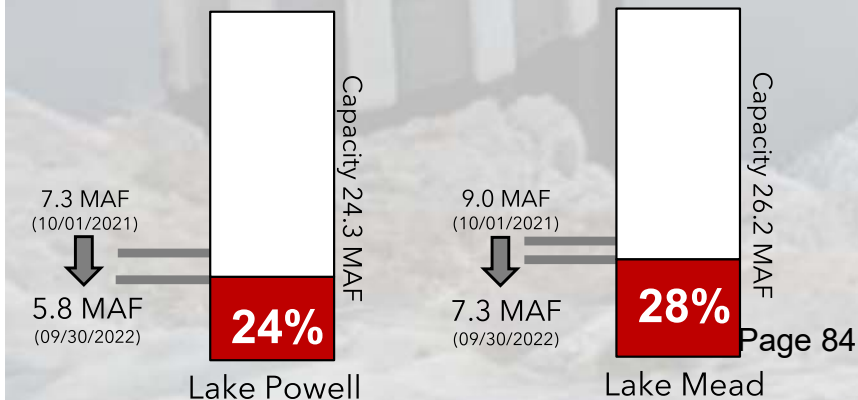
Drought in Colorado Basin RFC* by Percent Area



*RFC = River Forecast Center

Powell Unregulated Inflow (MAF)

9.6	Average (1991-2020)
6.09	2021-2022
3.52	2020-2021
5.85	2019-2020



Lake Mead Shortage/Surplus Outlook

	2023	2024	2025	2026
Surplus	0%	0%	0%	0%
Shortage	100%	93%	100%	93%
Metropolitan DCP*		77% 282 TAF	71% 302 TAF	67% 293 TAF

Likelihood based on results from the August 2022 CRMS in Ensemble Mode/CRSS model run. Includes DCP Contributions.

* Chance of required DCP contribution by Metropolitan. Volume is average contribution when needed.

All stats are preliminary and may be subjected to change.

Inland Empire Utilities Agency, a Municipal Water District Federal Update

September 29, 2022

FY23 Appropriations Update

With the federal fiscal year ending on September 30th, Congress is currently considering Continuing Resolution (CR)*. The CR allows the federal government to remain open and funding at current levels until December 16th. Additionally, the CR extends the authorization until December 16th for several federal programs including the National Flood Insurance Program, CALFED Bay-Delta Authorization, and the Temporary Assistance for Needy Families.

**At the time this memo was written, neither the House nor the Senate has passed the CR, but both are anticipated to do so and avoid a government shutdown.*

FEMA Announces State and Local Cybersecurity Grant Program NOFO

FEMA issued a notice of funding opportunity (NOFO) for the availability of \$1 billion in funding over five years for the State and Local Cybersecurity Grant Program established by the Bipartisan Infrastructure Law (BIL). The program provides state, local, and territorial governments with funding to address cybersecurity risks, strengthen the cybersecurity of critical infrastructure, and resilience against cyber threats. \$155 million in funding is available for Fiscal Year (FY) 2022. Applications for FY 2022 funding are due November 15th, and more information can be found [HERE](#).

Federal Funding Opportunities/Announcements

DOE Announces \$1 Million SolarAPP+ Prize Program. The Department of Energy (DOE) announced it is accepting applications for the \$1 million SolarAPP+ Prize program for local governments. The program will promote the adoption of the SolarAPP+, a new app that issues permits for code-compliant residential solar voltaic systems on demand. Applications are due November 4th. More information can be found [HERE](#).

EPA Announces \$3.5 Million for NEP Watershed Grant Program. The Environmental Protection Agency (EPA) announced \$3.5 million in funding for the National Estuary Program (NEP) Watersheds Grant Program. The program will fund projects that treat, remove, or prevent pollution from entering estuaries in addition to climate resiliency projects. More information can be found [HERE](#).

Reclamation Announces \$2 Million for Desalination and Water Purification Research Program. The Bureau of Reclamation (Reclamation) announced it is accepting applications for \$2 million in funding for the Desalination and Water Purification Research Program. The

grants will provide funding for researchers and partners to develop innovative, cost-effective, and technologically efficient ways to desalinate or treat water. Applications are due November 30th, and more information can be found [HERE](#).

Reclamation Announces \$20 Million for Small Storage Program. Reclamation announced \$20 million in funding for the Small Storage Program authorized by BIL. The program provides funding for the implementation of small surface storage, groundwater storage, and conveyance projects. Applications are due December 9th, and more information can be found [HERE](#).

Reclamation Awards \$10.3 Million in Grants for Native American Affairs Technical Assistance to Tribes Program. Reclamation announced awards totaling \$10.3 million for 26 federally recognized tribes in 12 states as part of the Native American Affairs Technical Assistance to Tribes Program. The program provides funding to support tribal projects that prepare for and mitigate the impacts of drought. More information can be found [HERE](#).

Federal Agency Personnel/Regulatory Announcements

President Biden Appoints John Podesta as Senior Advisor to the President for Green Energy Innovation and Implementation. President Biden announced that John Podesta will serve as Senior Advisor to the President for Green Energy Innovation and Implementation. In this role, Podesta will oversee the implementation of energy tax credits and incentives authorized by the Inflation Reduction Act.

President Biden Appoints Richard Revesz as Administrator of OIRA. President Biden announced that he has nominated Richard Revesz as Administrator of the Office of Information and Regulatory Affairs (OIRA) at the Office of Management and Budget. The nomination, which requires Senate approval, is currently pending.

White House Office of Science and Technology Policy Nominee Confirmed by Senate. On September 22nd, the Senate confirmed Arati Prabhakar, President Biden's nominee for Director of the White House Office of Science and Technology Policy. President Biden elevated the office to a Cabinet-level position in 2021. Prabhakar will also serve as Science Advisor to the President.

DOI and NOAA Release CMRA Portal. DOI and the National Oceanic and Atmospheric Administration (NOAA) released the Climate Mapping for Resilience and Adaptation (CMRA) portal. The website is a tool for local, tribal, state, and federal government agencies to access data to develop climate resiliency plans. The site also provides information on federal grants for climate resilience projects. More information can be found [HERE](#).

EPA Issues NPRM on PFAS Authorized Use for Pesticides. EPA issued a NPRM to remove twelve PFAS chemicals from the list of inert ingredients approved for use in pesticide products. EPA is currently accepting stakeholder feedback on the NPRM. Comments are due October 13th, and more information can be found [HERE](#).

EPA Issues Temporary BABA Waiver for WIFIA and SRF Programs. EPA's Office of Water issued a six-month temporary waiver for Build America, Buy America Act (BABA) requirements for its Water Infrastructure Finance and Innovation Act (WIFIA) and State Revolving Fund (SRF) programs. The waiver applies to manufactured products and construction materials only. The waiver expires on April 2nd unless extended, and more information can be found [HERE](#).

EPA Publishes NPRM on Designating PFOA and PFOS under CERCLA. EPA published its NPRM to designate perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), also known as "Superfund." Comments are due November 7th, and more information can be found [HERE](#).

EPA Releases Five-Year Strategic Plan. EPA released its FY 2022 – 2026 Strategic Plan that will serve as a roadmap for policy actions over the next five years. The plan includes information about the agency's course of action on climate change, environmental justice, compliance, air quality, and water quality. More information can be found [HERE](#).

EPA Releases Technical Cyber Security Support Plan for Public Water Systems. EPA released its Technical Cybersecurity Support Plan for Public Water Systems. The report highlights available tools, including the [Vulnerability Self-Assessment Tool](#) and the [Cybersecurity Incident Action Checklist](#). EPA plans to roll out additional resources and tools in early 2023 according to the report. The Vulnerability Self-Assessment Tool can be found [HERE](#).

Reclamation Releases American River Basin Study. Reclamation released its American River Basin Study which details current and future water conditions for central California. The report found that increased variability of fall and winter precipitation due to rising temperatures and declining snowpacks may amplify the severity of droughts and flooding in the basin. The report can be found [HERE](#).

##



September 30, 2022

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

Overview:

The third consecutive year of drought, the driest on record, ended with the end of the water year on September 30. Climatologists are raising the alarm by predicting a drier-than-normal year again for 2023, but hope that La Nina conditions might shift later in the winter. Despite a fairly significant Northern California storm in September, reservoir levels continue to decline as the state remains at higher-than-normal temperatures for the fall. Lake Oroville is sitting at 64 percent of historical average and 35 percent capacity. San Luis Reservoir, the main south-of-Delta storage facility for the State Water Project, is at just 67 percent of average for this time of the year and 29 percent capacity.

The federal government has recently taken several actions to protect salmon and other habitat on the San Joaquin and Sacramento Rivers. On the San Joaquin, they held back water behind Friant Dam this summer and have just started releasing it at the time when salmon are entering fall spawning season. On the Sacramento, the Bureau of Reclamation is proposing to purchase water from Settlement Contractors to hold water behind Shasta Dam to release when cold water is needed for salmon health. Both actions, especially those on the Sacramento, are helpful to State Water project Contractors. The healthier the watershed the better.

The SWRCB recently adopted a “handbook” implementing a new “microplastics strategy.” The strategy will be implemented in two phases. The first phase is monitoring for larger microplastics and the second for smaller particles. The handbook goes into detail about lab accreditation and other specifics about how the state is going to estimate and evaluate risk exposure of microplastics in drinking water.

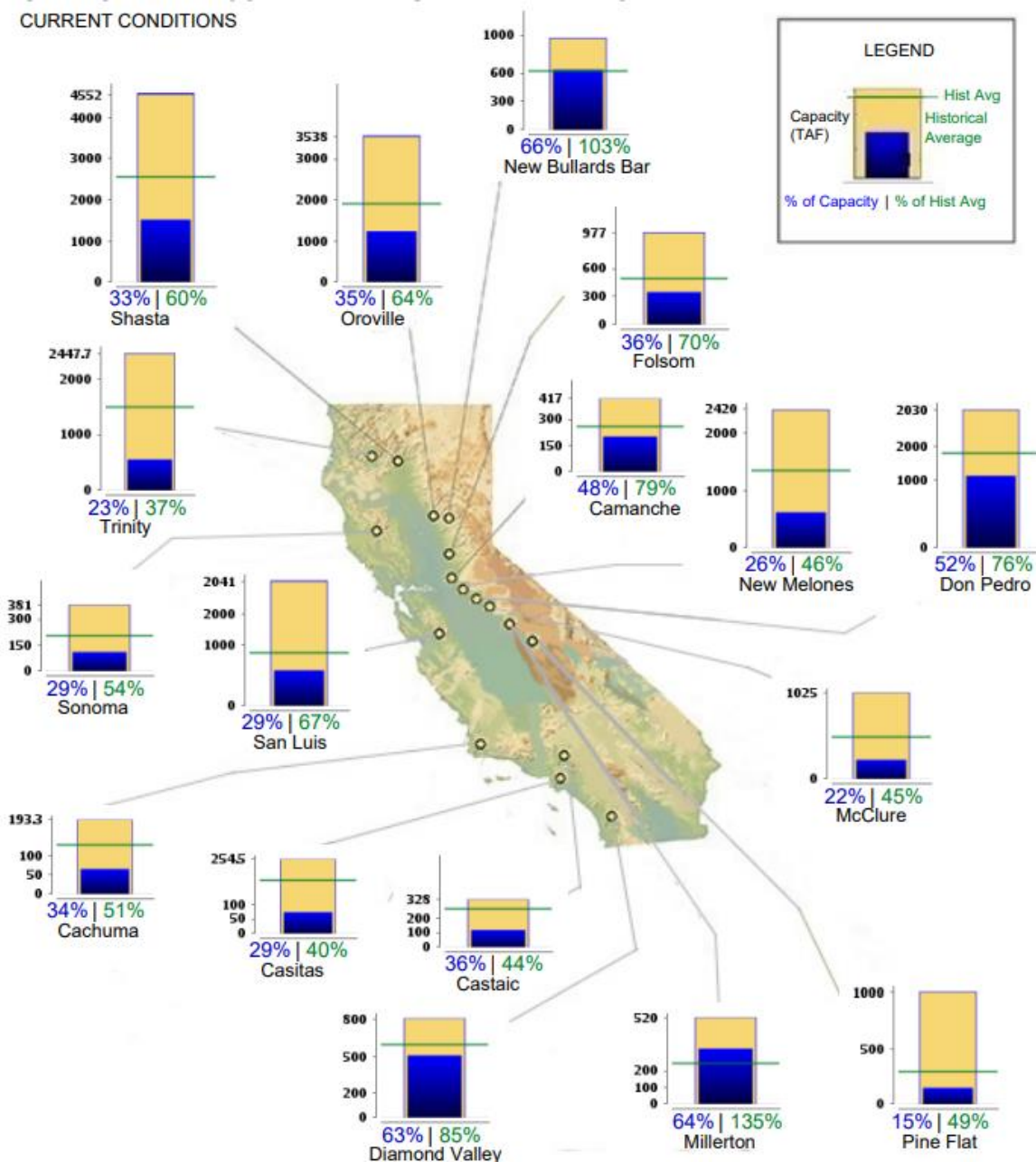
The legislative session is officially over, with the Governor acting on over 700 bills in the final week of September. It was a fairly busy year with more water-related bills than usual. ACWA’s legislation to provide for a tax exemption for turf removal rebates was signed by the Governor with [greater than normal fanfare](#). CASA’s bill to require products containing PFAS to register their products on a publicly accessible database struggled with significant opposition from manufacturers but was able to pass onto the Governor with just enough votes the Governor vetoed the bill, citing pressure on the state budget. MWD’s legislation to allow for alternative project delivery methods for several of their projects easily passed out of both houses of the Legislature and was signed by the Governor, while similar legislation (SB 991, Newman) to allow for progressive design build processes for projects over \$5 million also awaits consideration by the Governor. Unless a bill had an “urgency clause,” all legislation will go into effect on January 1, 2023.

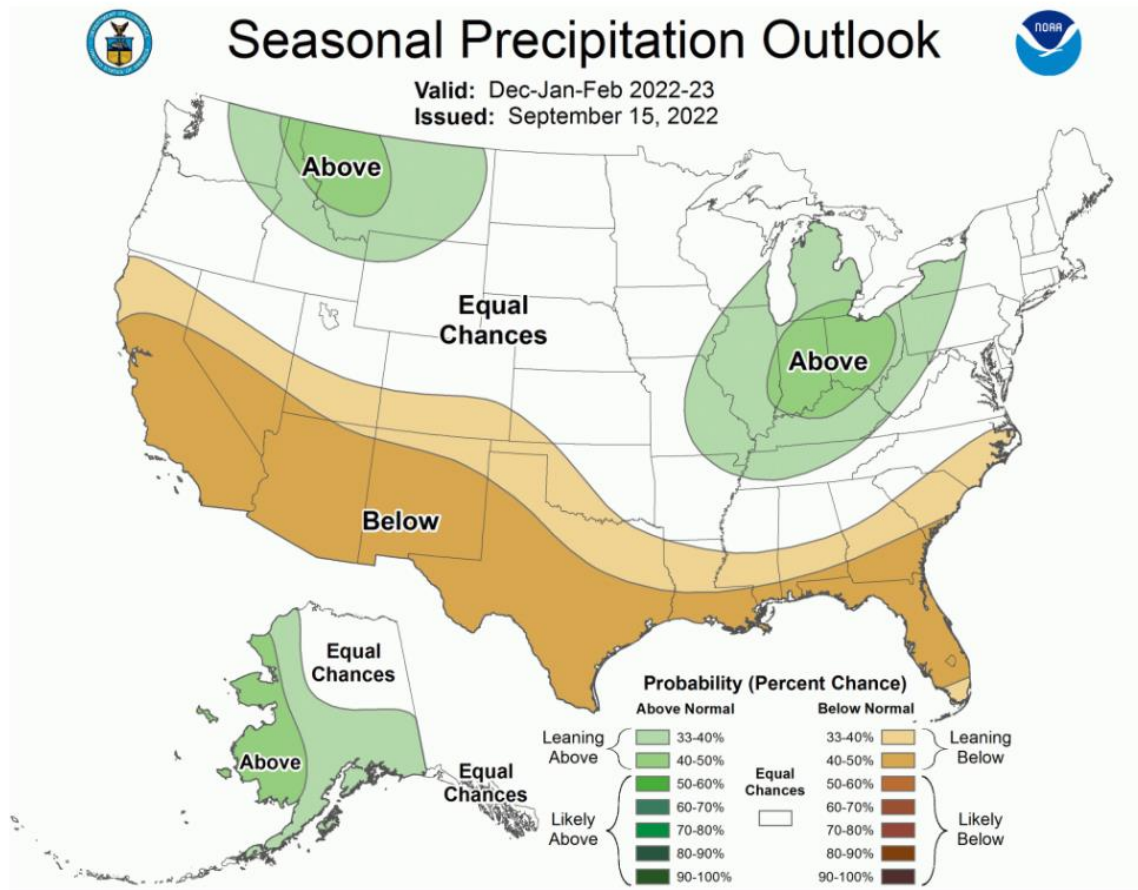
Members will come back to Sacramento in December to swear in new members and “organize” the session, but will return in earnest to start the legislative deliberations in January. With about one-third of the legislature retiring this year, there will be a lot of new members roaming the halls of the Capitol soon.

Inland Empire Utilities Agency Status Report – September 2022

Water Supply Conditions

After the three driest water years on record, 2022 water year came to a close on September 30 with water managers not optimistic the pattern will break this winter. Scientists predict a La Nina, dry-condition pattern, to remain in the state through the winter. Lake Oroville is sitting at 64 percent of historical average and 35 percent capacity. San Luis Reservoir, the main south-of-Delta storage facility for the State Water Project, is at just 67 percent of average for this time of the year and 29 percent capacity. Drought conditions continue to worsen with 17 percent of the state in exceptional drought and 41 percent in extreme drought.





Federal Actions to Protect Fish

As the state grapples with balancing depleted water supplies and protecting native fish, federal water managers have implemented several actions to attempt to protect salmon on the Sacramento and San Joaquin Rivers.

San Joaquin River Restoration Program Restoration Administrator has scheduled the resumption of Restoration Flows on the San Joaquin River starting October 1.

Due to unprecedented drought conditions and historic water rights, Restoration Flows were gradually reduced to zero in early April as Friant Dam began making higher releases to supply the San Joaquin River Exchange Contractors at Mendota Pool. From early April through mid-July, Friant Releases ranged upwards of 1,700 cubic feet per second (cfs). Since mid-July, Friant Dam releases have ranged from 230 cfs to 290 cfs to meet Holding Contracts and did not extend past Gravelly Ford, 38 miles downstream from Friant Dam.

Despite extreme drought conditions and lower flows since mid-July, river conditions were adequate to sustain a small cohort of adult spring-run Chinook salmon holding between Friant Dam and Gravelly Ford in Reach 1. Managing Millerton Lake’s cold water pool by conserving Restoration Flows for nearly three months benefited river temperatures directly downstream of Friant Dam and the survival of holding adult salmon. These fish are set to begin their final life stage — making redds (fish nests) and spawning this fall (September/October) — before a new cohort of juvenile salmon emerges this winter.

On the Sacramento River, Reclamation is proposing to use drought relief funds to purchase water from Sacramento River Settlement Contractors to support fish and wildlife on the Sacramento River.

The proposed action would allow for up to 100 TAF of conserved water that could otherwise be delivered during October 2022 to remain in Shasta Reservoir to contribute to storage for Water Year 2023. The additional storage may benefit cold-water pool and instream temperature management for WY 2023 and may have additional fish and wildlife benefits as may be needed to meet flow objectives for fish and wildlife on the Sacramento River. Reclamation was appropriated \$200 million.

SWRCB Adopts Microplastics Strategy

As required by 2018 legislation, the State Board recently adopted the [Policy Handbook Establishing A Standard Method of Testing and Reporting of Microplastics in Drinking Water](#). The state will employ a two-phase iterative approach for monitoring microplastics to obtain sufficient information to estimate risk through exposure. Each step will last two years, with an interim period to allow for State Water Board staff to assess results from the first phase and plan the second phase of monitoring accordingly. For both phases, the State Water Board will issue orders to public water systems and/or wholesaler providers to monitor microplastics in source waters and/or treated drinking water.

Phase I: monitoring will focus on characterizing occurrence of microplastics larger than 20 or 50 micrometers in length in source waters used for drinking in accordance with the specifications in the method employed by the laboratory

Phase II: monitoring will be directed towards characterizing occurrence of microplastics both smaller than and larger than 20 micrometers in length in treated drinking water.

Legislative Update

The Legislature adjourned the 2021-22 Legislative Session in the early morning hours of September 1. The Governor acted on over 700 bills in the final week of September, the 30th being the Governor's deadline to act on all legislation. With the final approvals and vetoes, the legislative session is officially over. Members will return to Sacramento briefly to "organize" in December and will return in earnest in January to begin the 2023-24 legislative session.

Bill updates:

AB 2142 (Gabriel): This bill would provide an income tax exemption for rebates from a turf removal program. Sponsored by ACWA, the bill didn't receive a single no vote throughout the entire process and was signed by the Governor, who also put out a press release touting the importance of the bill.

AB 1845 (Calderon): MWD sponsored bill to allow for alternative project delivery methods for specific MWD projects. The bill only received one no vote through the process and was signed by the Governor.

SB 991 (Newman): This bill is similar to MWD's AB 1845 but it would allow for progressive design build to be used on any project over \$5 million. The bill didn't receive a single no vote throughout the entire process and was signed by the Governor.

AB 2247 (Bloom): CASA sponsored bill would require products sold in CA that contain PFAS to register the product on a publicly accessible reporting platform. The bill was recently amended to remove some of the enforcement language, which should remove some of the opposition. The bill has

had a rough road, garnering significant opposition from the manufacturing community. It received *just* enough votes to move through the legislative process, but the Governor ultimately vetoed the bill. The veto message cited const pressure on the state budget as his reason for the veto.

AB 2449 (Rubio): Sponsored by Three Valleys Municipal Water District's, this legislation addresses remote participation for elected officials. The author took amendments in the Senate to address concerns from the Senate Governance and Finance and Judiciary Committee concerns surrounding misuse of these allowances to not have to face the public during challenging proceedings. The bill now limits the number of times an official can use remote testimony and requires that "cameras must be on" at all times. AB 2449 was signed by the Governor.

SB 1157 (Hertzberg): The bill would implement the indoor GPCD targets outlined in the DWR/SWRCB draft report to the Legislature for 47 GPCD by 2025 and 42 GPCD by 2030. The bill passed out of Natural Resources and Water Committee despite significant concerns from Senator Ben Hueso (D-San Diego). The bill was quickly moved to the floor of the Senate where it passed 28-9. The author took amendments in the Assembly Water, Parks and Wildlife Committee that would require studying the impacts to wastewater and recycled water systems. The bill was further amended to require consideration of variances for recycled water. The bill was seven votes short of passage on the Assembly floor on its first vote, but was brought up under "reconsideration" in the final minutes of the session and secured the necessary votes for passage. The bill was signed by the Governor who included in his signing message, a directive for the SWRCB to consider adopting a recycled water variance.

AB 1279 (Muratsuchi): declares it a policy of the state that as soon as possible, but no later than 2045, the state shall achieve net zero emissions and maintain negative GHG emissions thereafter. The bill also requires an 85 percent reduction in anthropogenic GHG emissions below 1990 levels by 2045. The bill was signed by the Governor.

SB 1020 (Laird): established the policy that eligible renewable energy resources and zero-carbon resources supply 90 percent of all retail sales of electricity to CA end-use customers by then end of 2035 and 95 percent by the end of 2040. The bill also requires that eligible renewable energy resources and zero-carbon resources supply 100 percent of electricity procured to serve all state agencies by the end of 2035, ten years sooner then required by existing law.

These provisions also apply to the State Water Project (SWP). While the bill was recently amended to ease the burden on the SWP, this bill is estimated to cost the State Water Contractors \$1.2 billion, with MWD's share likely about \$720 million. The bill was signed by the Governor.

SB 846 (Dodd): extends the operation of the Diablo Canyon Nuclear Generation Station (San Luis Obispo). Diablo Canyon was planned to shut down at the end of 2025, but with supply chain disruptions and other factors, there is significant risk that there will be insufficient new clean energy supplies online before the scheduled retirement. The bill declared that Diablo is crucial to energy reliability throughout the state, therefore all IOU ratepayers will be on the hook for 50 percent of the cost while PG&E ratepayers will be responsible for the remaining half. Because the fee collection is volumetric, high-energy users will be responsible for a majority of the reliability costs. The bill was the last bill of the session voted on by both houses and passed overwhelmingly. The Governor signed the bill.

IEUA BILLS— BILLS WITH POSITIONS- 2022 Session FINAL REPORT

Bill Number	Author/Sponsor	Title and/or Summary	Summary	IEUA Position/ Bill Location	Positions Taken by Associations & Regional Agencies
AB 1845	Calderon MWD Sponsored	Metropolitan Water District of Southern California: alternative project delivery methods	Would authorize the Metropolitan Water District of Southern California to use the design-build procurement process for certain regional recycled water projects or other water infrastructure projects. The bill would define "design-build" to mean a project delivery process in which both the design and construction of a project are procured from a single entity. The bill would require the district, if using this procurement process, to follow certain procedures, including preparing and issuing a request for qualifications, preparing a request for proposals including the scope and needs of the project or contract, and awarding projects based on certain criteria for projects utilizing either lowest responsible bidder or best value selection criteria.	SUPPORT Signed by Governor	MWD, ACWA, WRCA in support
AB 2142	Gabriel	Income taxes: exclusion: turf replacement water conservation program	This bill would, for taxable years beginning on or after January 1, 2022, and before January 1, 2027, under both of these laws, provide an exclusion from gross income for any amount received as a rebate, voucher, or other financial incentive issued by a local water agency or supplier for participation in a turf replacement water conservation program.	SUPPORT Signed by Governor	ACWA, MWD in Support
AB 2247	<i>Bloom</i> CASA Sponsored	<i>PFAS products: disclosure: publicly accessible reporting platform</i>	<i>This bill would require the Department of Toxic Substances Control to work with the Interstate Chemicals Clearinghouse to establish, on or before January 1, 2024, a publicly accessible reporting platform to collect information about PFAS and products or product components containing regulated PFAS, as defined, being sold, offered for sale, distributed, or offered for promotional purposes in, or imported into, the state. The bill would require, on or before March 1, 2024, and annually thereafter, a manufacturer, as defined, of PFAS or a product or a product component containing regulated PFAS that is sold, offered for sale, distributed, or offered for promotional purposes in, or imported into, the state to register the PFAS or the product or product component containing regulated PFAS, and specified other information, on the publicly accessible reporting platform.</i>	SUPPORT Vetoed by Governor	CASA, WRCA, ACWA in support
AB 2449	Rubio Three Valleys	Open meetings: local agencies: teleconferences	This bill would authorize a local agency to use teleconferencing without complying with those specified teleconferencing requirements if at least a quorum of the members of the	SUPPORT	ACWA & MWD Support

			legislative body participates in person from a singular location clearly identified on the agenda that is open to the public and situated within the local agency's jurisdiction. The bill would impose prescribed requirements for this exception relating to notice, agendas, the means and manner of access, and procedures for disruptions. The bill would require the legislative body to implement a procedure for receiving and swiftly resolving requests for reasonable accommodation for individuals with disabilities, consistent with federal law.	Signed by Governor	
AB 2787	Quirk	Microplastics in products	<i>The Microbeads Nuisance Prevention Law prohibits a person from selling or offering for promotional purposes in the state any personal care products containing plastic microbeads that are used to exfoliate or cleanse in a rinse-off product, including, but not limited to, toothpaste. This bill would, on and after specified dates that vary based on the product, ban the sale, distribution in commerce, or offering for promotional purposes in the state of designated products, such as leave-in cosmetics products and waxes and polishes, if the products contain intentionally added microplastics, as defined. The bill would exclude from this ban products consisting, in whole or in part, of specified substances or mixtures containing microplastics. The bill would make a violator liable for a civil penalty not to exceed \$2,500 per day for each violation.</i>	SUPPORT Held in Assembly--- NOT MOVING FORWARD IN 2022	CASA in support
AB 2811	Bennett Plumbers Union	California Building Standards Commission: recycled water: nonpotable water systems	<i>Would require, commencing January 1, 2024, all newly constructed nonresidential buildings be constructed with dual plumbing to allow the use of recycled water for all applicable nonpotable water demands, as defined, if that building is located within an existing or planned recycled water service area, as specified.</i>	Oppose Env. Safety & Toxic Materials Comm--- no hearing Bill not moving forward this year.	CASA & WRCA oppose unless amended. ACWA & CMUA Oppose
SB 222	Sen. Dodd	Water Affordability Assistance Program	<i>Would establish the Water Affordability Assistance Fund in the State Treasury to help provide water affordability assistance, for both drinking water and wastewater services, to low-income ratepayers and ratepayers experiencing economic hardship in California. The bill would make moneys in the fund available</i>	Vetoed by Governor	Opposed by ACWA

			<i>upon appropriation by the Legislature to the state board to provide, as part of the Water Affordability Assistance Program established by the bill, direct water bill assistance, water bill credits, water crisis assistance, affordability assistance, and short-term assistance to public water systems to administer program components.</i>		
SB 230	Portantino/ CMUA & MWD	State Water Resources Control Board: Constituents of Emerging Concern	Would require the State Water Resources Control Board to establish, maintain, and direct an ongoing, dedicated program called the Constituents of Emerging Concern Program to assess the state of information and recommend areas for further study on, among other things, the occurrence of constituents of emerging concern (CEC) in drinking water sources and treated drinking water. The bill would require the state board to convene, by an unspecified date, the Science Advisory Panel to review and provide recommendations to the state board on CEC for further action, among other duties. The bill would require the state board to provide an annual report to the Legislature on the ongoing work conducted by the panel.	SUPPORT Signed by Governor	Favor by ACWA
SB 991	Newman Water Collaborative Delivery Association (formerly the Water Design-Build Council)	Public contracts: progressive design-build: local agencies	Current law, until January 1, 2025, authorizes local agencies, as defined, to use the design-build procurement process for specified public works with prescribed cost thresholds. Current law requires specified information submitted by a design-build entity in the design-build procurement process to be certified under penalty of perjury. This bill, until January 1, 2033, authorizes local agencies, defined as any city, county, city and county, or special district authorized by law to provide for the production, storage, supply, treatment, or distribution of any water from any source, to use the progressive design-build process for public works projects in excess of \$5,000,000, similar to the progressive design-build process authorized for use by the Director of General Services. The bill would require specified information to be verified under penalty of perjury.	SUPPORT Signed by Governor	WRCA Support
SB 1157	Hertzberg	Urban water use objectives: indoor residential water use	Current law requires the Department of Water Resources, in coordination with the State Water Resources Control Board, and including collaboration with and input from stakeholders, to conduct necessary studies and investigations and authorizes the department and the board to jointly recommend to the Legislature a standard for indoor residential water use. Current law, until	Signed by Governor- included signing message that SWRCB should	Oppose unless amended by WateReuse & ACWA, CASA & CMUA

			<p>January 1, 2025, establishes 55 gallons per capita daily as the standard for indoor residential water use. Existing law establishes, beginning January 1, 2025, the greater of 52.5 gallons per capita daily or a standard recommended by the department and the board as the standard for indoor residential water use, and beginning January 1, 2030, establishes the greater of 50 gallons per capita daily or a standard recommended by the department and the board as the standard for indoor residential water use. This bill would eliminate the option of using the greater of 52.5 gallons per capita daily and the greater of 50 gallons per capita daily, as applicable, or a standard recommended by the department and the board as the standard for indoor residential water use.</p>	<p>consider variance for recycled water</p>	
--	--	--	---	---	--

Date: October 19, 2022

To: The Honorable Board of Directors

From: Shivaji Deshmukh, General Manager

Committee: Community & Legislative Affairs

10/12/22

Staff Contact: Shivaji Deshmukh, General Manager

Subject: Public Outreach and Communication

Executive Summary:

IEUA will be hosting a booth at the Chino Basin Water Conservation District's Waterwise Garden and Pumpkin Fest on October 1. IEUA's booth will include water-wise activity, prizes, and information on our water-use efficiency rebates & programs.

Staff is continuing to coordinate with the production company representing the documentary series, "Viewpoint with Dennis Quaid". The documentary will focus on IEUA's mission of providing a high quality, reliable water source to the region by securing and increasing local supplies through investments in infrastructure projects, conservation, and education.

With the start of a new school year, staff continues to promote the variety of free educational resources offered through the Agency through video shorts and informational graphics. Staff has begun scheduling in-person and virtual K-12 field trips for Fall. The next field trip is scheduled for October 18.

Staff's Recommendation:

This is an informational item for the Board of Directors to receive and file.

Budget Impact *Budgeted (Y/N): Y Amendment (Y/N): Y Amount for Requested Approval:*

Account/Project Name:

Fiscal Impact (explain if not budgeted):

Prior Board Action:

N/A

Environmental Determination:

Not Applicable

Business Goal:

IEUA is committed to providing a reliable and cost-effective water supply and promoting sustainable water use throughout the region.

IEUA is committed to enhancing and promoting environmental sustainability and the preservation of the region's heritage.

Attachments:

Attachment 1 - Background

Background

Subject: Public Outreach and Communication

October

- October, National Energy Awareness Month
- October, National Field Trip Month
- October 1, Chino Basin Water Conservation District Waterwise Garden and Pumpkin Fest
- October 1-9, Water Professionals Appreciation Week (WPAW)
- October 5, Energy Efficiency Day
- October 20, Great CA Shakeout
- October 20, Imagine A Day Without Water
- October 29, National Prescription Drug Take Back Day
- October 31, Halloween

Media and Outreach

General

- IEUA recognized September as National Preparedness Month on social media through a four-part series with tips on household preparedness.
- Staff continues to work with the Chino Basin Program (CBP) team leads and partners to develop an outreach strategy for additional program communication, including developing a communication workgroup, identifying collaboration and partnership opportunities on shared media, and more.
- Staff recognized the Water Quality Laboratory's PFAS accreditation through the Environmental Laboratory Accreditation Program.
- In accordance with the new school year, staff continues to promote the variety of free educational resources offered through the Agency through video shorts and informational graphics.
- Staff continues to collaborate with Chino Basin Water Conservation District on outreach promoting their Waterwise Garden and Pumpkin Fest on October 1. IEUA will be hosting a booth at this event.
- Staff celebrated IT Professionals Day and Finance and Accounting Appreciation Week on social media with posts thanking our ISS, Finance, and Accounting staff.
- Staff is continuing to coordinate with the production company representing the documentary series, "Viewpoint with Dennis Quaid". The documentary will focus on IEUA's mission of providing a high quality, reliable water source to the region by securing and increasing local supplies through investments in infrastructure projects, conservation, and education.

Drought Awareness Efforts

- Staff is coordinating with Customer Agencies on messaging geared towards conservation and the irrigation of trees.

- Staff is continuing to work closely with the Water Use Efficiency team on promoting the turf replacement program.
- Staff is continuing to work with Customer Agencies on drought messaging and outreach. Staff is drafting message points and creative for outreach and will be adding these assets to the drought communication toolkit for customer agencies.

Advertising/Marketing

- A “Time is Now” ad ran on September 26 in La Opinion.
- A “Time is Now”/Education ad ran September issue of the Inland Empire Magazine.
- A “Time is Now”/Education ad will run on October 8 in the Chino Champion.

Social Outreach and Analytics

- The Agency continues to publish content on LinkedIn and has gained 75 followers since August, with 590 page views in the last 30 days.
- September: 32 posts were published to the IEUA Facebook page, 32 tweets were sent on the @IEUA Water Twitter handle, 32 posts were published to IEUA’s Instagram grid, and 13 posts were published to the IEUA LinkedIn page.
 - The top three Facebook posts, based on reach and engagement, in the month of September were:
 - 9/18 World Water Monitoring Day
 - 9/1 Water Quality Laboratory PFAS Testing Accreditation
 - 9/6 Compost Worker and Electrical & Instrumentation Technician I-III (DOQ) Hiring
 - The top three Twitter tweets, based on reach and engagement, in the month of September were:
 - 9/25 World Rivers Day
 - 9/14 CBWCD Waterwise Garden and Pumpkin Fest Reminder
 - 9/19 Pollution Prevention Week
 - The top three Instagram posts, based on reach and engagement, in the month of September were:
 - 9/14 CBWCD Waterwise Garden and Pumpkin Fest Reminder
 - 9/18 World Water Monitoring Day
 - 9/25 World Rivers Day
 - The top three LinkedIn posts, based on impressions and reactions, in the month of September were:
 - 9/15 Advanced Water Treatment Operator Certification
 - 9/12 General Manager Deshmukh 2022 WateReuse Conference Panelist
 - 9/21 New Splash Employee Feature
- For the month of September, there were 8,244 searches for a park in IEUA’s service area on Yelp and the Chino Creek Wetlands and Educational Park was viewed 552 times.

Education and Outreach Updates

- Staff has begun scheduling in-person and virtual K-12 field trips for Fall. The next field trip is scheduled for October 18.
- Staff has developed an educational program outreach plan and is beginning the process of scheduling another road show for school districts to learn about Agency programs.

- Staff is continuing to work on closing out the last year of the Garden in Every School® program.
 - Randall Pepper Elementary in Fontana is finishing up the final electrical work in preparation for construction to begin on their garden. Chino Basin Water Conservation District (CBWCD) will be completing the construction.
 - Our Loving Savior's gardens construction is completed. The planting will be completed following the installation of bunny fencing.
 - Staff is working with teachers on finalizing approximately nine mini grant approvals.

Agency-Wide Membership Updates

- Richard Lao, Senior Environmental Resources Planner, attended the Southern California Alliance of Publicly Owned Treatment Works (SCAP) Air Quality Committee Meeting on August 16.
- Richard Lao, Senior Environmental Resources Planner, attended the Southern California Alliance of Publicly Owned Treatment Works (SCAP) Water Quality Committee Meeting on August 22.

CHINO BASIN WATERMASTER

IV. INFORMATION

1. CHINO AIRPORT AND SOUTH ARCHIBALD PLUMES SEMI-ANNUAL STATUS REPORTS

Semi-Annual Plume Status Report

Chino Airport Plume October 2022

CONTAMINANTS

The County of San Bernardino Department of Airports (County) identifies four primary volatile organic compound (VOC) contaminants associated with the Chino Airport groundwater plume: trichloroethene (TCE), 1,2,3-trichloropropane (1,2,3-TCP), cis-1,2-dichloroethene (cis-1,2-DCE), and 1,2-dichloroethane (1,2-DCA) with TCE and 1,2,3-TCP being the most frequently detected contaminants at the highest concentrations. For each of the four primary contaminants, the table below lists the California maximum contaminant level (MCL) and the maximum concentration detected in groundwater samples collected from wells within the plume area over the last five years.

Contaminant	MCL, µg/l	Max Concentration, µg/l	Sample Date	Well
TCE	5	630	June 2020	CAMW30
1,2,3-TCP	0.005	21	May 2022	CAMW13-I
cis-1,2-DCE	6	22	June 2020	CAMW30
1,2- DCA	0.5	1.4	June 2020	CAMW56

Other contaminants of concern include 1,1-dichloroethene (1,1-DCE), carbon tetrachloride, and 1,4-dioxane.

LOCATION

The Chino Airport is located in the southwestern portion of the Chino Basin within the City of Chino. Exhibit 1 shows the spatial extent of the TCE and 1,2,3-TCP plumes in groundwater, as delineated by both the Chino Basin Watermaster (Watermaster) for the *2020 State of the Basin Report* and the County for their *Semiannual Groundwater Monitoring Report – Winter and Spring 2021*.^{1,2} The delineations prepared by Watermaster show the spatial extent of the plume with detectable concentrations of TCE and 1,2,3-

¹ West Yost. (2021). *Optimum Basin Management Program – 2020 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2021.

² Tetra Tech. (2021). *Semiannual Groundwater Monitoring Report-Winter and Spring 2021*. Prepared for the County of San Bernardino Department of Airports. November 19, 2021.

TCP based on the five-year maximum concentrations measured over the period of July 2015 to June 2020. The delineations by the County show the area where TCE concentrations are greater than or equal to 5 µg/l, and where 1,2,3-TCP concentrations are greater than or equal to 0.005 µg/l, based on concentrations measured during the 2021 winter and spring sampling events, past depth-discrete sampling on airport property, and data provided by Chino Desalter Authority (CDA) for the desalter wells within the plume.

Since 2015, the County has characterized West and East plumes, originating from two different source areas at the Chino Airport. TCE and 1,2,3-TCP concentrations are higher within the West plumes than the East plumes. The extent of the West plumes is also much larger, extending in a south-southwest direction. The East plumes extend in the same general direction but terminate within the boundary of the Chino Airport property. The West and East TCE plumes are comingled and have been delineated together as one plume since 2017. The West and East 1,2,3-TCP plumes are recently comingled and were delineated together as one plume for the first time in 2021.

TCE and 1,2,3-TCP Plumes

The extent of the West TCE Plume with detectable TCE concentrations greater than 0.5 µg/l is about 2.5 miles long. The plume extends south-southwest approximately two miles from the source area to Pine Avenue and then turns southeast toward the Prado Flood Control Basin. It extends another 0.5 miles in this direction terminating south of Pine Avenue. The change in direction of the plume in this area may be associated with the location of the Central Avenue Fault that forms a local groundwater barrier and historical pumping at irrigation wells. The source of the smaller East TCE Plume is approximately 1,500 feet northeast of the source of the West TCE Plume. The East TCE Plume extends south from the source area about 0.6 miles and then comingles with the West TCE Plume between the two different source areas. The known lateral extent of TCE at concentrations above the MCL is approximately 671 acres.

The extent of the West 1,2,3-TCP Plume with detectable 1,2,3-TCP concentrations greater than 0.005 µg/l follows the same general path as the West TCE Plume and extends about 2.6 miles southwest towards Pine Avenue before turning southeast for approximately 0.7 miles, following the same pathway as the West TCE Plume toward the Prado Flood Control Basin. The smaller East 1,2,3-TCP Plume is approximately 0.6 miles lengthwise trending south and is connected to the West 1,2,3-TCP Plume on airport property. The known lateral extent of 1,2,3-TCP in groundwater above the MCL currently covers an area of approximately 1,264 acres.

Over time, the vertical and lateral extents of the plumes have changed in response to groundwater production at nearby wells and other hydrological factors. Since monitoring began, groundwater production at the nearby CDA wells has increased the vertical thickness of the West Plume by 100 feet or more and has drawn the plumes laterally in a southeast direction toward CDA Well I-20.

REGULATORY ORDERS

- Cleanup and Abatement Order (CAO) No. 90-134 for the County of San Bernardino Department of Airports, Chino Airport—Issued to the County to address the groundwater contamination originating from the Chino Airport.
- CAO No. R8-2008-0064 for the San Bernardino County Department of Airports, Chino Airport—Required the County to define the lateral and vertical extent of the plume offsite from the Chino Airport and prepare a remedial action plan (RAP).

- CAO No. R8-2017-0011 for the San Bernardino County Department of Airports, Chino Airport—Required the County to respond to Santa Ana Regional Water Quality Control Board (Regional Board) comments on the draft Feasibility Study and submit a final Feasibility Study. Additionally, it required the County to submit a final RAP within 60 days of the Regional Board approval of the Final Feasibility Study and implement the RAP.

REGULATORY AND MONITORING HISTORY

In 1990, the Regional Board issued CAO No. 90-134 to address groundwater contamination originating from the Chino Airport. From 1991 to 1992, ten inactive underground storage tanks and 310 containers of hazardous waste were removed, and 81 soil borings were drilled and sampled on the Chino Airport property. From 2003 to 2005, nine onsite monitoring wells were installed and used to collect groundwater quality samples. In 2007, the County conducted its first offsite groundwater characterization effort, which included 22 cone penetrometer tests (CPT) and direct push borings from which water quality samples were collected. In 2008, the Regional Board issued CAO No. R8-2008-0064, requiring the County to define the lateral and vertical extent of the plume offsite and to prepare a RAP. From 2009 to 2012, 33 offsite monitoring wells were installed at 15 locations to characterize the extent of the contamination downgradient from the Chino Airport property. From 2013 to 2014, the County conducted an extensive investigation of 20 areas of concern identified for additional characterization of the soil and groundwater contamination associated with the Chino Airport. The investigative work included: piezocone-penetrometer tests, vertical-aquifer-profiling (VAP) borings with depth-discrete groundwater sampling, soil-gas probe sampling, high-resolution soil sampling and analysis, real-time data analysis, and three-dimensional contaminant distribution modeling. Following the completion of this investigative work, from September 2014 through February 2015, an additional 33 groundwater monitoring wells were installed in 17 locations on and adjacent to the Chino Airport property.

The County completed a draft feasibility study in August 2016, identifying remedial action objectives for groundwater contaminants originating from the Chino Airport and evaluating remediation alternatives for mitigation.³ On January 11, 2017, the Regional Board issued CAO R8-2017-0011 to the County, which superseded CAO R8-2008-0064. The order required that the County: (1) submit a final feasibility study within 60 days of receiving the Regional Board’s comments on the draft feasibility study, (2) submit a final RAP within 60 days of the Regional Board approval of the final feasibility study, (3) implement the RAP in accordance with a Regional Board-approved schedule, and (4) prepare and submit technical reports and work plans as the Regional Board deems necessary. The County submitted the final feasibility study on May 15, 2017.⁴ The preferred remedial action identified was a groundwater pump-and-treat system to provide hydraulic containment and treatment of both the West and the East Plumes. The Regional Board approved the final feasibility study on June 7, 2017 and requested that a RAP be prepared.

On December 18, 2017, the County submitted a draft interim remedial action plan (IRAP).⁵ The IRAP was considered “interim” because the County is moving forward on an interim basis to initiate the remedial action as soon as possible, with the opportunity to evaluate and modify the remedy in the future. The

³ Tetra Tech. (2016). *Draft Feasibility Study Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. August 2016.

⁴ Tetra Tech. (2017). *Final Feasibility Study Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. May 2017.

⁵ Tetra Tech. (2017). *Draft Interim Remedial Action Plan*. Chino Airport, San Bernardino County, California. Prepared for the County San Bernardino Department of Airports. December 2017.

draft IRAP identified a combination of institutional controls, monitored natural attenuation, and groundwater extraction and ex-situ treatment as the best remedial alternative. From April 2018 to January 2019 a CEQA analysis was completed for the proposed remedial strategy.⁶ During this time, the Regional Board and County went through a series of comments and response to comments on the draft IRAP. Modifications were made to the draft IRAP and the Final IRAP was submitted to the Regional Board on May 18, 2020.⁷ The Final IRAP was approved by the Regional Board on November 4, 2020.

While the County was reviewing and finalizing the IRAP, they were simultaneously working on a Human Health and Screening Ecological Risk Assessment (HHERA) to support to the IRAP by identifying remedial actions to protect human health and the environment.⁸ A draft of the HHERA was submitted to the Regional Board for review in August 2018. The Regional Board and the Office of Environmental Health Hazard Assessment reviewed the report and identified several data gaps. The Regional Board requested that the County produce a work plan to address these data gaps, including additional shallow soil and soil gas sampling. On November 12, 2020, the County submitted a draft HHERA Data Gap Workplan to the Regional Board to evaluate the potential presence of VOCs and other contaminants in the shallow soil vapor.⁹ Between January and April 2021, the County worked to address the comments provided by the Regional Board on the draft Data Gap Work Plan. The County submitted the final Data Gap Work Plan to the Regional Board in April 2021, and it was approved in July 2021.¹⁰

In April and May 2020, the County installed a cluster of three downgradient wells (CAMW 68/69/70) to monitor the increasing concentrations of TCE in wells located along the southeastern plume boundary.

REMEDIAL ACTION

As described in the IRAP, remedial action for the West and East TCE and 1,2,3-TCP plumes will consist of a groundwater pump-and-treat system, institutional controls, and monitored natural attenuation. The groundwater pump-and-treat system well network will include a total of twenty-two wells located across ten extraction well sites (EW-1 through EW-10) both onsite and offsite. Nineteen wells at eight sites will be installed for containment of the West Plume and three wells at two sites will be installed for containment of the East Plume. Due to the depth of the plume, each extraction well site will consist of up to three individual extraction wells to focus extraction at different depths. Exhibit 1 shows the location of the ten proposed extraction well sites.

To assist in the design of the groundwater pump-and-treat system, the County installed two of the extraction well sites (EW-2 and EW-5) in 2018, along with twelve piezometers and eleven monitoring

⁶ Filing of the Notice of Determination for the Mitigated Negative Declaration was completed on January 29, 2019.

⁷ Tetra Tech. (2020). *Final Interim Remedial Action Plan Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. May 18, 2020.

⁸ Tetra Tech. (2018). *Human Health and Screening Ecological Risk Assessment Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. August 8, 2018.

⁹ Tetra Tech. (2020). *Draft Human Health and Ecological Risk Assessment Data Gap Work Plan, Chino Airport San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. November 12, 2020.

¹⁰ Tetra Tech. (2021). *Final Work Plan for Supplemental Data Collection for Vapor Intrusion and Shallow Soil, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. April 9, 2021.

wells, and conducted aquifer pumping tests at these locations. The findings were submitted to the Regional Board on June 19, 2019 and used by the County to refine the design of the system.¹¹

Altogether, the extraction wells are predicted to produce 1,700 gallons per minute (gpm) of groundwater, with individual wells ranging from 20-150 gpm each. The extraction well network will also include existing CDA Wells I-16, I-17, and I-18 to pump up to an additional 630 gpm of groundwater, and potentially CDA Wells I-20 and I-21 if treatment is required.

Extracted groundwater will be conveyed via a pipeline network to the main raw water influent line to the existing CDA Chino-I Desalter facility, where it will be treated for VOCs (including 1,2,3-TCP and TCE) at a new granular activated carbon (GAC) treatment system constructed at the CDA's existing Chino-I Desalter facility (South GAC system). The South GAC system is designed to treat a total flow of 2,325 gpm from the County extraction wells, CDA wells I-16, I-17, I-18, and CDA wells I-20 and I-21 if needed. Other treatment processes may also be added as needed to treat increasing concentrations of constituents or if regulatory limits decrease. The CDA is designing and constructing the treatment system and will operate it, and the County will provide the funding. An additional treatment system, the North GAC Treatment System is also being constructed by CDA and will treat water from four onsite CDA wells (I-1 through I-4), however, this system will not be associated with the County's remedial action. Construction of both the North and South GAC System at Chino-I Desalter is in progress and is scheduled to be completed during the fourth quarter of 2022 with startup scheduled for January 2023.

Once treated at the South GAC system, water will be conveyed to the existing Chino-I Desalter that uses reverse osmosis and ion exchange to treat for nitrates and total dissolved solids (TDS), both of which are regional contaminants and not associated with Chino Airport operations or plumes. Treated water will be discharged for use as potable municipal water supply.

On December 8, 2021, the County submitted the *Final Preliminary Well Design Report* for the pump-and-treat system for remediation of the plume and began working on a remedial action work plan (RAWP) to provide a detailed description of the remediation and construction activities associated with the implementation of the remedial action outlined in the IRAP.^{12,13}

MONITORING AND REPORTING

Currently, the County conducts quarterly, annual, or biennial water-quality monitoring, and quarterly water-level monitoring at 89 site-related monitoring wells. The sampling frequency is determined by well classification (i.e., background wells, horizontal or vertical extent wells, seasonal/increasing trend wells, and guard wells). The purpose of the groundwater monitoring program is to collect data to track detections of VOCs in groundwater, monitor temporal trends of contaminants, and evaluate changes in each groundwater plume. All data collected by the County are posted on the State Water Resources Control Board's GeoTracker website.¹⁴ Conclusions from the monitoring program can also be found in the

¹¹ Tetra Tech. (2019). *Well Installation, Well Destruction, and Aquifer Pumping Test Report, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. June 19, 2019.

¹² Tetra Tech. (2021). *Final Preliminary Well Design Report, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. December 8, 2021.

¹³ Tetra Tech. (2022). *Remedial Action Work Plan, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. July 22, 2022.

¹⁴ https://geotracker.waterboards.ca.gov/profile_report?global_id=SL208634049

semi-annual reports posted on GeoTracker. The most recent monitoring report, the *Semiannual Groundwater Monitoring Report-Summer and Fall 2021*, was submitted to the Regional Board in September 2022, although it has not yet been posted on GeoTracker.¹⁵

Watermaster also collects groundwater-quality samples from private wells in the plume area and at its HCMP-4 monitoring well, located in the southern end of the plume. Additionally, the CDA collects groundwater-quality samples from its production wells; these data are shared with Watermaster and the County. Watermaster uses data from the County, CDA, and its own sampling to perform an independent characterization of the areal extent and concentration of the TCE and 1,2,3-TCP plumes.

RECENT ACTIVITY

The most recent semi-annual groundwater monitoring report prepared by the County was submitted to the Regional Board on September 6, 2022; however, as of October 2022, it was not available on GeoTracker. Additionally, the summer and fall reports do not include an updated plume delineation and only some wells are sampled. During the winter and spring 2021 sampling events, all 89 wells were measured for groundwater elevation, with 23 wells sampled for water quality in the winter and all 89 wells sampled for water quality in the spring. The following describes key conclusions presented in the 2021 winter/spring monitoring report:

- Groundwater elevation data continue to show two predominant gradients and flow directions of shallow groundwater in the plume area: 1) towards the east-southeast beneath the airport, and 2) towards the south and southwest offsite. The east-southeast gradients are attributed to groundwater extraction from CDA wells. Groundwater elevation data continue to demonstrate areas of downward vertical gradients and the potential for vertical migration of contaminants, also due to pumping at the CDA wells.
- Groundwater quality sampling results show 18 VOCs were detected in the 89 wells analyzed during the winter and spring. Seven of these VOCs were detected above their respective screening level. TCE was detected above the MCL in 28 wells with a maximum concentration of 390 µg/l at well CAMW40. 1,2,3-TCP was detected above the MCL in 50 wells with a maximum concentration of 20 µg/l at CAMW56. The other five VOCs detected above their respective screening levels include tert-Butyl alcohol (one well), carbon tetrachloride (one well), 1,2-DCA (five wells), cis-1,2-DCE (four wells), and 1,4 dioxane (two wells).
- The size and configuration of the TCE plumes changed from 2020 to 2021 as TCE concentrations increased to levels above the MCL in recently installed well CAMW70, resulting in the expansion of the plume along the eastern side.
- The size and configuration of the 1,2,3-TCP plumes changed from 2020 to 2021 due to the merging of the West and East plumes. 1,2,3-TCP concentrations above MCLs in wells on the eastern side of the current monitoring well network and offsite near the toe of the plume also indicate a lateral expansion along the eastern side of the plume.

¹⁵ Tetra Tech. (2022). *Semiannual Groundwater Monitoring Report-Summer and Fall 2021*. Prepared for the County of San Bernardino Department of Airports. September 6, 2022.

- Within the core of the West and East plumes, decreasing trends in TCE concentrations near the source areas may indicate that the dissolved source mass is reducing at or near the source areas.

In January 2022, the County completed construction of six piezometers at four locations in the Prado Basin riparian habitat area southwest of the airport (see Exhibit 1) to monitor potential impacts to shallow groundwater from pumping at the County extraction wells.¹⁶ The piezometer installation report is still being prepared. In March 2022, groundwater samples were collected to test water quality. The data from this sampling event is available on GeoTracker. During the second quarter of 2022, transducers were installed. Because the County's pumping will be incorporated into the CDA's operations, the long-term monitoring of groundwater levels in the Prado Basin riparian habitat areas and any potential impacts would be addressed as part of the Watermaster's and Inland Empire Utilities Agency's Prado Basin Habitat Sustainability Program.

During the most recent sampling event in May 2022, two agricultural wells in the vicinity were also sampled for water quality in addition to the monitoring wells and piezometers.

Pursuant to the required HHERA Data Gap Workplan, *The Supplemental Vapor Intrusion and Shallow Soil Investigation Report* was published in September 2021.¹⁷ The report concluded that no further investigation of shallow soils or soil gas is needed in several of the areas investigated, two of the areas investigated may require land-use controls, and one area will require additional investigation. On April 26, 2022, the Regional Board provided comments on the report, requesting soil gas sampling at additional locations to determine the lateral and vertical extent of the TCE plume and the potential for vapor intrusion at various buildings. The County is currently working with the Regional Board to finalize the monitoring locations. Once finalized, the County will submit a work plan for the supplemental investigation with the additional sample locations. Once the work plan is completed and approved by the Regional Board, the next step will be to implement the approved work plan and submit a technical report summarizing the results of the additional investigation and evaluating the results of soil, soil gas, and groundwater samples collected.

On April 22, 2022, the Regional Board approved the *Final Preliminary Well Design Report* and requested that the County submit a Remedial Action Work Plan (RAWP) by June 24, 2022 that provided a detailed description of the construction and installation of the extraction wells, pipelines for conveyance of extracted groundwater, and the groundwater treatment system.¹² On May 25, 2022, the County requested a 30-day extension for submittal while they awaited the final service plan from Southern California Edison. The extension was granted and the RAWP was submitted to the Regional Board on July 22, 2022.¹³

The RAWP divides the construction of the pump-and-treat system into two phases: Phase 1 includes the construction of on-site wells and conveyance piping, as well as five monitoring wells with depths ranging from 155 feet below ground surface (bgs) and 340 bgs; and Phase 2 will include the construction of off-site wells and piping. During Phase 1, five wells at three onsite well sites (EW-1, EW-3, and EW-4) will be installed. Five wells at two onsite well sites (EW-2 and EW-5) have already been installed. Once the conveyance system is constructed and tested, wells will go into operation as they are constructed,

¹⁶ Tetra Tech. (2021). *Work Plan for Installation of Piezometers for Riparian Area Monitoring, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. May 17, 2021.

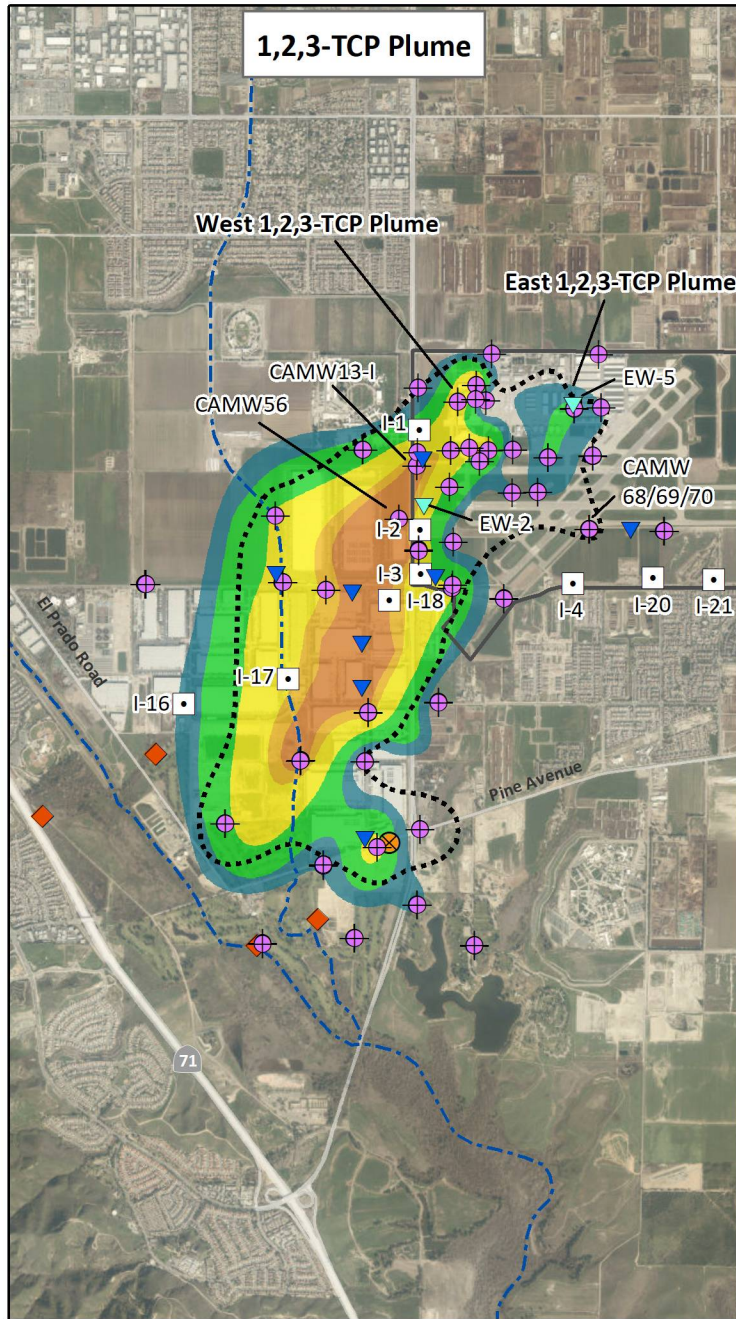
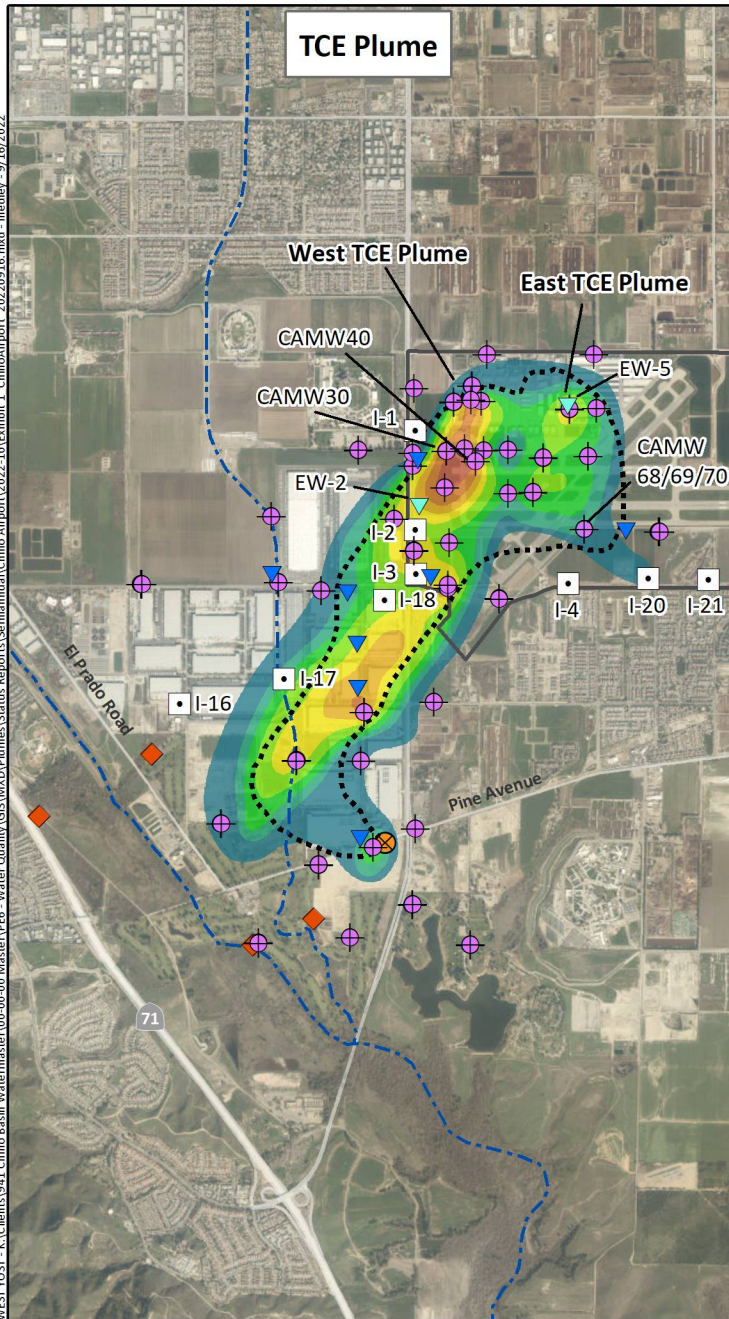
¹⁷ Tetra Tech. (2021). *Supplemental Vapor Intrusion and Shallow Soil Investigation Report, Chino Airport, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. September 2021.

developed, tested, and approved by State Water Resources Control Board Division of Drinking Water (DDW). Construction of the onsite wells is scheduled to commence in 2023 and be completed by 2025.

An addendum to the RAWP will be submitted at a later date for Phase 2 construction during which the remaining twelve wells at five offsite well sites and conveyance piping will be installed. Property rights are currently in the process of being acquired and construction is expected to begin during the fourth quarter of 2023 and be complete in 2026.

Construction of the South GAC System at Chino-I Desalter for the County's pump-and-treat system is in progress with the startup of wells CDA I-17, and I-18 planned for January 2023 when the South GAC System starts operating. Well I-16 is currently in operation.

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00-00 Master\PE6 - Water Quality\GIS\MXD\Plumes\Status Reports\Semianual\Chino Airport\2022-10\Exhibit 1 Chino Airport_20220916.mxd - lhrdley_9/16/2022



Maximum Concentration ($\mu\text{g/l}$)
July 2015 - June 2020

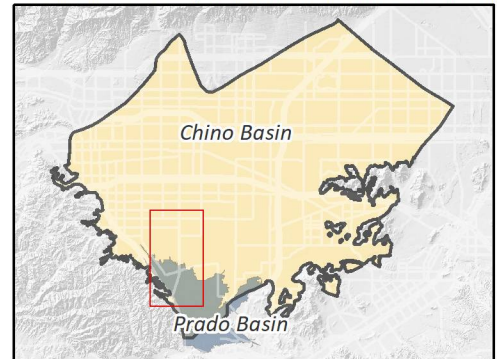
TCE	1,2,3-TCP
0.5 to \leq 5	0.005 to \leq 0.05
> 5 to \leq 10	> .05 to \leq .5
> 10 to \leq 20	> .5 to \leq 5
> 20 to \leq 50	> 5 to \leq 10
> 50 to \leq 100	> 10 to \leq 100
> 100 to \leq 200	
> 200 to \leq 500	
> 500	

MCL = 5 $\mu\text{g/l}$
(Delineated by Watermaster in the 2020 State of the Basin Report)

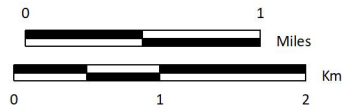
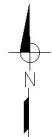
Approximate Extent of TCE (>5 $\mu\text{g/l}$) or 1,2,3-TCP (>0.005 $\mu\text{g/l}$) Plume
(Delineated by the County of San Bernardino for the Winter/Spring 2021 Groundwater Monitoring Report)

- County of San Bernardino Monitoring Well* (Some locations have multiple well casings at various depths)
- Piezometer Constructed in 2022 Near Prado Basin Habitat
- HCMP Monitoring Well 4
- Extraction Well Cluster Constructed in 2018
- Location of Future Extraction Well Cluster
- CDA Production Well
- Chino Airport Boundary
- Streams & Flood Control Channels

* Wells are labeled by well name if mentioned in the report



Prepared by:



Prepared for:

Chino Basin Watermaster
Semi-Annual Plume Report



Semi-Annual Plume Status Report

South Archibald Plume October 2022

CONTAMINANTS

The primary contaminant is trichloroethene (TCE). The California maximum contaminant level (MCL) for TCE is 5 micrograms per liter ($\mu\text{g/l}$). The maximum TCE concentration detected in a groundwater sample collected from wells within the plume during the last five years (July 2017 to June 2022) is 90 $\mu\text{g/l}$.

LOCATION

The South Archibald TCE plume is located in the southern Chino Basin within the City of Ontario. Exhibit 1 shows the spatial extent of the plume with detectable TCE concentrations equal to or greater than 0.5 $\mu\text{g/l}$, as delineated by the Chino Basin Watermaster (Watermaster) for the *2020 State of the Basin Report*.¹ This extent is based on the five-year maximum TCE concentration measured over the period of July 2015 to June 2020. The TCE plume is about 23,400 feet long, extending southward from State Route 60 to approximately Kimball Avenue, and is about 14,300 feet wide extending from Grove Avenue to Turner Avenue. Exhibit 1 also shows the approximate extent of the plume, and extent greater than 5 $\mu\text{g/l}$, delineated by the responsible parties during the most recent sampling event in 2021.

REGULATORY ORDERS

- Draft Cleanup and Abatement Orders (CAOs) — Six Draft CAOs were issued in 2005 to the following parties: Aerojet-General Corporation, The Boeing Company, Northrop Grumman Corporation, Lockheed Martin Corporation, General Electric Company, and United States Department of Defense.
- Draft CAO R8-2012-00XX for the City of Ontario, City of Upland, and Inland Empire Utilities Agency (IEUA), Former Ontario-Upland Sewage Treatment Plant (Regional Recycling Plant No. 1), City of Ontario, San Bernardino County — This CAO was issued jointly to the City of Ontario, City of Upland, and IEUA.
- Stipulated Settlement and CAO No. R8-2016-0016 for the City of Ontario, the City of Upland, the IEUA, Aerojet Rocketdyne, Inc.², The Boeing Company, General Electric Company, Lockheed Martin Corporation, and the United States of America, Former Ontario-Upland

¹ West Yost. (2020). *Optimum Basin Management Program – 2020 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2021.

² Formerly known as Aerojet-General Corporation.

Sewage Treatment Plant (Regional Recycling Plant No. 1) — This was the final CAO issued to all parties previously issued draft CAOs in 2005 and 2012, excluding Northrop Grumman.

REGULATORY AND MONITORING HISTORY

In the mid-1980s, the Metropolitan Water District of Southern California took water quality samples that indicated that TCE was present in private wells in the southern Chino Basin as part of its work associated with the Chino Basin Storage Program. The Santa Ana Regional Water Quality Control Board (Regional Board) confirmed this with subsequent rounds of sampling.

The Regional Board issued Draft CAOs in 2005 for six different parties who were tenants on the Ontario Airport property. On a voluntary basis, four of the parties — Aerojet-General Corporation, The Boeing Company, General Electric Company, and Lockheed Martin Corporation, collectively the ABGL parties, worked together, along with the U.S. Department of Defense, to investigate the source of contamination. Part of the investigations included collecting water-quality samples from private wells and taps at residences and the construction and sampling of four triple-nested monitoring wells (ABGL wells) in the northern portion of the plume. Alternative water systems were provided to private residences in the area where groundwater was contaminated with TCE above the MCL.

In 2008, Regional Board staff conducted research pertaining to the likely source of TCE contamination. Based on their work, Regional Board staff identified discharges of wastewater to the RP-1 treatment plant and associated disposal areas that potentially contained TCE, as the potential sources. The Regional Board identified several industries, including some previously identified tenants of the Ontario Airport property, that likely used TCE solvents before and during the early 1970s, and discharged wastes to the Cities of Ontario and Upland sewage systems tributary to the RP-1 treatment plant and disposal areas. In 2012, an additional Draft CAO was issued by the Regional Board jointly to the City of Ontario, City of Upland, and IEUA as the previous and current operators of the RP-1 treatment plant and disposal area (collectively the RP-1 parties).

Under the Regional Board's oversight from 2007 through 2014, the ABGL parties and the RP-1 parties individually and jointly conducted sampling at private residential wells and taps approximately every two years in the region where groundwater was potentially contaminated with TCE. By 2014, all private wells and taps in the area of the plume had been sampled at least once as part of the monitoring program. The report documenting this data was published in November 2014.³ Both the ABGL and RP-1 parties provided potable water to residences in the area where well water contained TCE concentrations equal to or above 80 percent of the MCL for TCE (e.g., equal to or greater than 4.0 µg/l) by either water tank systems where potable water is delivered via truck or by bottled water service.

In July 2015, the RP-1 parties completed a draft feasibility study report for the South Archibald plume (Feasibility Study).⁴ The Feasibility Study established cleanup objectives for domestic water supply and plume remediation and evaluated alternatives to accomplish these objectives. In August 2015, a Draft Remedial Action Plan (RAP) was concurrently prepared by the RP-1 parties to present the preferred plume remediation

³ Erler & Kalinowski, Inc. (2014). *Supplemental Data Report Trichloroethene Plume Central Chino Basin*. Prepared for Aerojet Rocketdyne, Boeing, General Electric, and Lockheed Martin. November 19, 2014.

⁴ Dudek. (2015). *Draft Feasibility Study Report South Archibald Plume, Ontario, California*. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. July 2015.

and domestic water supply alternatives.⁵ A public review period followed, and two community meetings were held in September 2015 to educate the public about the plume, the Feasibility Study, and the RAP, and to solicit comments on these reports. In November 2015, the revised Draft Feasibility Study and RAP and responses to comments were completed to address input from the public, ABGL, and other parties.^{6,7}

In September 2016, the Regional Board issued the Final Stipulated Settlement and CAO R8-2016-0016 (Stipulated CAO) collectively to the RP-1 parties and the ABGL parties (excluding Northrop Grumman). The Stipulated CAO was adopted by all parties in November 2016, thus approving the preferred plume remediation and domestic water supply alternatives identified in the RAP. The parties also reached a settlement agreement that aligned with the Stipulated CAO and authorized funding to initiate implementation of the plume remediation alternative.

In July 2021, the RP-1 parties collaborated with the Regional Board and Watermaster to distribute a Community Fact Sheet to residences overlying the plume on the health and environmental impacts of the groundwater contaminants of TCE and other potential contaminants such as per- and polyfluoroalkyl substances (PFAS), their presence in the area of the plume, and sampling resources.⁸

REMEDIAL ACTION

Plume Remediation. The plume remediation alternative identified in the Feasibility Study, RAP, and Stipulated CAO involves the use of previously existing and newly constructed Chino Basin Desalter Authority (CDA) wells and treatment facilities. The RP-1 parties and the CDA reached a Joint Facility Development Agreement for implementation of a project designed to remediate the South Archibald plume. The proposed project included: the construction and operation of three new CDA wells (II-10, II-11, and II-12) and a dedicated pipeline to convey groundwater produced from these wells to the Chino-II Desalter treatment facility, and a modification to existing decarbonator at Chino-II Desalter to install air stripping system to remove TCE and other VOCs from the pumped water. Existing CDA well I-11 would also be pumped into the air-stripping treatment facility as part of the project. The construction of wells II-10 and II-11 was completed in September 2015. The equipping of these wells was completed in 2018, and pumping initiated at wells II-11 and II-10 in July and September 2018, respectively. The construction of an onsite monitoring well near the proposed location of well II-12 was completed in 2019 and the construction of well II-12 was completed in November 2020. The CDA completed the equipping of well II-12 in July 2021, and pumping began on August 24, 2021.

Domestic Water Supply. The domestic water supply alternative identified in the Feasibility Study and RAP is a hybrid between the installation of tank systems for some residences where potable water is delivered from the City of Ontario and the installation of a pipeline to connect some residences to the City of Ontario potable water system. Pursuant to the Stipulated CAO, the Cities of Ontario and Upland have assumed

⁵ Dudek. (2015). *Draft Remedial Action Plan South Archibald Plume, Ontario, California*. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. August 2015.

⁶ Dudek. (2015). *Draft Feasibility Study Report South Archibald Plume, Ontario, California*. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. November 2015.

⁷ Dudek. (2015). *Draft Remedial Action Plan South Archibald Plume, Ontario, California*. Prepared for City of Ontario, City of Upland, and Inland Empire Utilities Agency. November 2015.

⁸ Regional Board. (2021). Community Fact Sheet.

https://documents.geotracker.waterboards.ca.gov/regulators/deliverable_documents/9334058463/20210407_CommunityFactSheet_SouthArchibaldPrivateWells-Short_ADA_Final.pdf

the responsibility for implementing the domestic water supply alternative for private residences currently receiving bottled water due to TCE groundwater contamination. In February 2017, the Cities of Ontario and Upland submitted a *Domestic Water Supply Work Plan* to the Regional Board (2017 Work Plan), outlining the approach to provide alternative water supplies to affected residences currently receiving bottled water.⁹ The Regional Board approved the 2017 Work Plan on March 3, 2017.¹⁰ At that time, 32 residences were using tank systems that were previously installed, and 21 residences were receiving bottled water. The alternative water supply options included: 1) installation of a tank system; 2) connection to an existing City of Ontario water main; 3) connection to a future City of Ontario water main; or 4) remain on bottled water. In accordance with the schedule in the Stipulated CAO and the work plan, tank systems would be installed within six months of resident consent, connections to Ontario's existing municipal water system would be constructed within three months of resident consent, and construction and connection to a new water main would occur within 18 months of resident consent. Additionally, bottled water would be supplied to any newly affected residents immediately upon determining that TCE is present at concentrations greater than 4 µg/l.

The City of Ontario performs annual monitoring of private wells and taps in the area potentially affected by the plume to support the 2017 Work Plan. As of December 2021, 30 residences were supplied water by 25 tank systems, and nine residences were supplied bottled water. No additional residences have been connected to the City of Ontario water system.

MONITORING AND REPORTING

Pursuant to the Stipulated CAO and the 2017 Work Plan, the Cities of Ontario and Upland collect annual groundwater quality samples at about 50-60 private wells and taps at about 45 residential and agricultural locations within the plume. The Cities of Ontario and Upland have conducted six rounds of sampling since 2017, and the results were reported in annual groundwater monitoring reports submitted to the Regional Board. The annual reports are available on the State Water Resources Control Board's GeoTracker online portal.¹¹

Since 2019, the IEUA and CDA have been working with the California State Water Resources Control Board (State Board) and the Regional Board to design a monitoring and reporting plan pursuant to the *Proposition 1 Grant Agreement No. D1712507* (Prop 1 Grant Agreement) for funding the expansion of the CDA facilities to cleanup TCE in the South Archibald plume, and also the high nitrates and total dissolved solids (TDS) in groundwater. Pursuant to requirements in the Prop 1 Grant Agreement, the Regional Board and State Board requested the construction of at least two additional monitoring wells in the plume: one to be located just upgradient of well II-12 (II-MW-4), and one to be located within the area of the highest

⁹ Dudek. (2017). *Domestic Water Supply Work Plan South Archibald Plume, Ontario, California*. Prepared for the City of Ontario, City of Upland. February 2017.

¹⁰ Regional Board. (2017). *Domestic Water Supply Workplan – South Archibald Trichloroethylene Plume, Ontario, California*. Letter to the City of Ontario from Kurt Berchtold. March 3, 2017.

¹¹ https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000004658

concentration of TCE within the plume (II-MW-5).^{12,13} The construction of four multi-depth well casings at II-MW-5 was completed in February 2021, and well II-MW-4 was completed in March 2021. The locations of II-MW-4 and II-MW-5 are shown in Exhibit 1. In addition to sampling for TCE, nitrate, and TDS, the Prop 1 Monitoring Plan includes monitoring for 1,2,3-trichloropropane (1,2,3-TCP), 1,4-dioxane, perchlorate, and hexavalent chromium at the four multi-depth well casings at II-MW-5 for two sampling events: 1) one during the completion of well construction, and 2) one year after the completion of well construction. If these initial sampling results show concentrations of these constituent(s) above 80 percent of their respective MCLs or California notification levels (NLs), these constituents will be added to the Monitoring Plan for the II-MW-5 wells. The sampling at the II-MW-5 wells following their construction in 2021 showed that some concentrations for these constituents are above 80 percent of their respective MCLs or NLs for at least one well in the cluster. The results will be discussed further once the results of additional sampling have been analyzed.

The final monitoring and reporting plan (Prop 1 Monitoring Plan) was completed in January 2021.¹⁴ The Prop 1 Monitoring Plan includes collecting samples at the CDA production and monitoring wells within and near the plume, and two upgradient monitoring wells. Operational Reports are required to be submitted quarterly and annually that include the data collected during that period. Additionally, the groundwater data is uploaded to the State Board's GeoTracker Groundwater Ambient Monitoring and Assessment (GAMA) system on an annual basis.

In addition to the monitoring performed by the CDA and the RP-1 Parties, Watermaster routinely collects groundwater samples at private wells in the plume area. Watermaster uses the data obtained from its own monitoring efforts, with monitoring data collected by the CDA, to delineate the South Archibald TCE plume as part of the biennial Chino Basin State of the Basin Report.

RECENT ACTIVITY

The most recent annual sampling event performed by the City of Ontario in accordance with the Stipulated CAO was conducted in October and November 2021. The City of Ontario sampled residential and agricultural wells or taps at 47 locations. Of the 47 locations, 13 locations were added as potential new sample locations per the request of the Regional Board. TCE was detected in 29 samples (not including duplicate samples) with TCE concentrations ranging from 0.31 to 30 µg/l.

The work plan for the 2022 annual private water supply well sampling event was submitted to the Regional Board by the City of Ontario on July 11, 2022.¹⁵ For the 2022 monitoring event, the City of Ontario proposed collecting samples from an estimated 70 properties supplied by private groundwater wells, including 19 private wells that were requested in the Regional Board's *Comments on 2021 Private Water*

¹² CDA Board of Directors July 2020 Meeting Agenda and Minutes.

<https://www.chinodesalter.org/AgendaCenter/ViewFile/Agenda/07022020-309>

¹³ Regional Board. (2020). *Comments on Responses to Comments on Monitoring and Reporting Plan and Request for Additional Monitoring for Inland Empire Utilities Agency and Chino Basin Desalter Authority Clean-Up Project (Grant Agreement No. D1712507)*. April 24, 2020.

¹⁴ Hazen and Sawyer. (2021). *Monitoring Plan – Chino Basin Improvement and Groundwater Clean-up Project*. Prepared for CDA and IEUA. January 2021.

¹⁵ EEC Environmental. (2022). *Workplan – Private Water Supply Well Sampling*. Prepared for the City of Ontario. July 11, 2022.

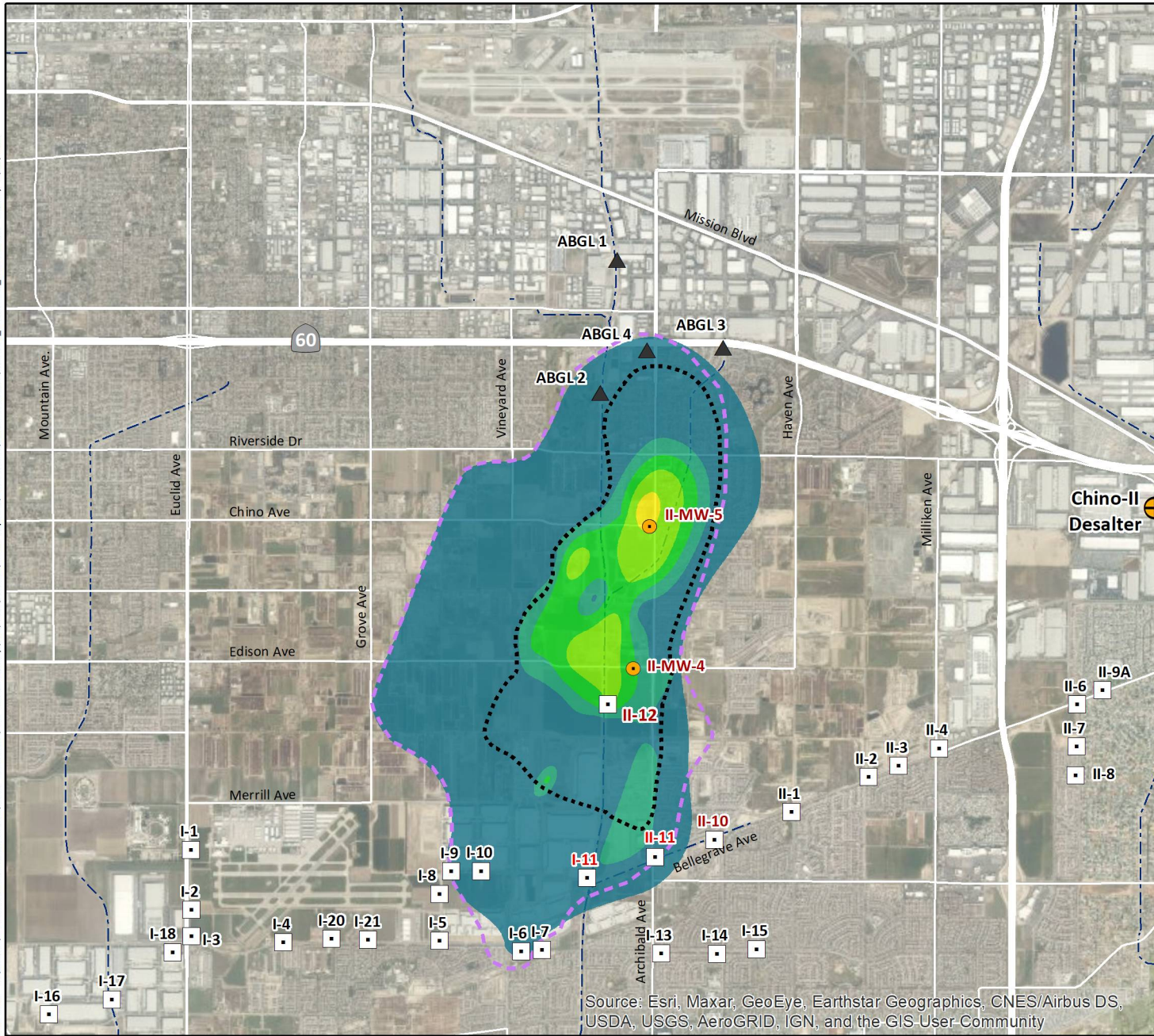
Supply Well Sampling Workplan.¹⁶ Additionally, the Regional Board has recommended that the City of Ontario identify any additional private well sampling candidates during the annual sampling. The Regional Board reviewed the July 11 work plan and provided comments in an August 24, 2022 letter. The comments in the Regional Board letter included the request to: provide a list of the residences that were not able to be contacted or did not provide access, and prioritize three residences that declined access the previous year; sample for the additional contaminants of 1,4-dioxane, 1,2,3-TCP, perchlorate, hexavalent chromium, and per and polyfluoroalkyl substances (PFAS) at ten private wells; and submit the monitoring data to the State Board's GeoTracker website. The City of Ontario is currently working to address these comments.

In addition to annual sampling at private wells, the two monitoring wells within the plume (II-MW-4 and II-MW-5) have also been sampled within the last year. Following the sampling done upon the completion of the well, II-MW-4 has been sampled three more times, in October 2021, December 2021, and February 2022. Under the Prop 1 Monitoring Plan, II-MW-5 was sampled in April 2022, a year after the completion of well construction. The results from the sampling events are available on GeoTracker.¹⁷

¹⁶ Regional Board. (2022). *Comments on 2022 Private Water Supply Well Sampling Work Plan, South Archibald Trichloroethene Plume, Ontario, California*. Letter to the City of Ontario. August 24, 2022.

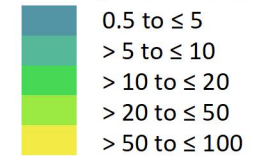
¹⁷ https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000011681&mytab=esidata#esidata

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00-00 Master\PE6 - Water Quality\GIS\WXD\Plumes\Status Reports\Semianual\South Archibald\Exhibit 1_SArchibald_220401.mxd - Iherley - 9/27/2022



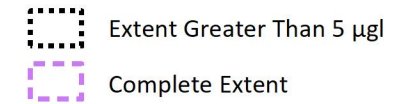
Maximum TCE Concentration (µg/l)

July 2015 to June 2020



(Delineated by Chino Basin Watermaster in the 2020 State of the Basin Report)

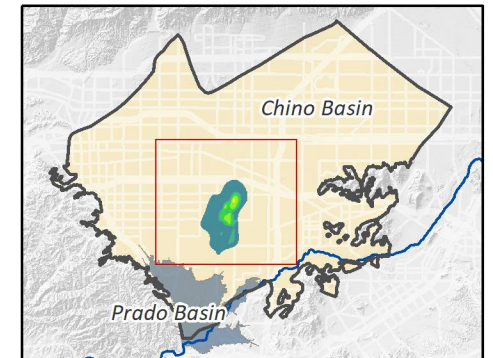
Approximate Extent of the Plume Delineated in the 2021 Annual Groundwater Monitoring Report



Chino Basin Desalter Authority Facilities:

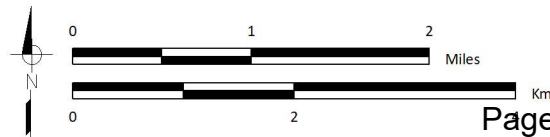


*Red labels indicate wells that are specifically discussed in the report.



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared by:



Prepared for:

Chino Basin Watermaster
Semi-Annual Plume Report
South Archibald



South Archibald
TCE Plume

Exhibit 1

CHINO BASIN WATERMASTER

IV. INFORMATION

2. ANNUAL PLUME STATUS REPORTS

Annual Plume Status Report

California Institution for Men Plume October 2022

CONTAMINANTS

The primary contaminant is tetrachloroethene (PCE). The California maximum contaminant level (MCL) for PCE is 5 micrograms per liter ($\mu\text{g/l}$). The highest concentration of PCE measured historically within the plume is approximately 1,990 $\mu\text{g/l}$.¹ Other contaminants of concern include the following volatile organic compounds (VOCs): trichloroethene (TCE), 1,2-dichloroethene, bromodichloromethane, 1,1,1-trichloroethane, carbon tetrachloride, chloroform, and toluene.

LOCATION

The California Institution for Men (CIM) is a state correctional facility located in the City of Chino. The property is approximately 1,500 acres and is bounded by Eucalyptus Avenue to the north, Euclid Avenue to the east, Kimball Avenue to the south, and Central Avenue to the west. The plume is located predominantly beneath the northwestern portion of the CIM property. Exhibit 1 shows the spatial extent of the PCE plume, as delineated by the Chino Basin Watermaster (Watermaster) in the *2020 State of the Basin Report*.² The extent of the plume with detectable PCE concentrations greater than 0.5 $\mu\text{g/l}$ is about 4,000 feet long and 3,000 feet wide.

SITE HISTORY

The State of California Department of Corrections and Rehabilitation (State) has operated CIM since 1939. The primary uses of the CIM property include agricultural operations, inmate housing, and correctional facilities. The Heman G. Stark Youth Correctional Facility (Youth Correctional Facility) occupies the eastern portion of the CIM property. There are eleven drinking water supply wells located on the CIM property; eight of these wells are actively producing groundwater as of 2022. The CIM operates the drinking water supply wells, a potable water distribution system, and a treatment plant to provide drinking water supply to the CIM facilities, Youth Correctional Facility, and the California Institution for Women. The land surrounding the CIM property was historically used for agriculture and dairy activities but has rapidly developed in recent years for residential and commercial uses.

¹ Based on a water quality sample collected at MW-7 in 1998.

² West Yost. (2021). *Chino Basin Optimum Basin Management Program-2020 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2021.

REGULATORY ORDERS

No regulatory orders for site remediation and monitoring were issued by the Santa Ana Regional Water Quality Control Board (Regional Board) for PCE contamination. The State conducted voluntary cleanup and monitoring under the Regional Board's direction from 1992 to 2009. On December 17, 2009, the Regional Board determined "No Further Action" was required for remediation and monitoring.

Unrelated to the PCE contamination, there are three leaking underground storage tank (LUST) cleanup sites located on the CIM property that are regulated under the State Water Resources Control Board (State Board) Underground Storage Tank (UST) program. The UST program directs Regional Boards to implement a monitoring plan and oversee site closures under the State Board's Low Threat Closure Policy (LTCP). There are no regulatory orders for groundwater remediation or monitoring at the CIM LUST sites. Two of the three sites met the requirements for site closure under the LTCP and were closed by the State Board in 2006. The remaining LUST site is the CIM State Garage LUST, which is currently open with ongoing monitoring and remediation for petroleum hydrocarbons. The CIM State Garage LUST is included in Exhibit 1.

REGULATORY AND MONITORING HISTORY

In 1990, PCE was detected at a concentration of 26 µg/l at CIM drinking water supply Well 1. This prompted the California Department of Health Services (CDHS), now the California State Board Division of Drinking Water (DDW), to direct CIM to stop using the well as a source of drinking water. The detection of PCE concentrations in two other CIM drinking water supply wells (1A and 11A) triggered the Regional Board to request an investigation of the source and extent of the onsite PCE contamination. Following an initial investigation, the Regional Board sent the State a written request to perform a subsurface investigation to define the vertical and lateral extent of PCE in soil at four locations where PCE was detected in soil vapor samples during the investigation.

The Phase I Initial Site Assessment was performed at the CIM site in 1992, and included a review of CIM's history, operations, and chemical use.³ The investigation identified five potential sites where VOCs were used and could have impacted soil and groundwater. These areas included: the old laundry building, the furniture factory, the vocational shops, the state garage, and the powerhouse.

The Phase II Site Assessment was performed from 1992 to 1994 to assess the presence and concentrations of VOCs in soil vapor, soil, and groundwater beneath the five potential sites identified in Phase I.⁴ Seven groundwater monitoring wells were installed and sampled as part of this investigation. The results from the soil and the groundwater investigations showed low concentrations of contaminants throughout the site, with concentrations of PCE in groundwater samples from monitoring wells ranging from 0.6 to 19 µg/l. The old laundry facility and nearby areas had the highest concentration of PCE in soil samples and was thus identified as the most likely principal source of VOCs. A Phase III assessment was performed in 1996 to further investigate the distributions of VOC contamination beneath the CIM and included depth discrete groundwater sampling at four exploratory boreholes. The investigation showed three distinct aquifer zones below the CIM and PCE and other VOCs were migrating laterally from the shallow zone to

³ Geomatrix Consultants, Inc. (1992). *Report of Phase I Investigation, VOCs in Soil and Groundwater, Department of Corrections California Institution for Men, Chino*. April 20, 1992.

⁴ Geomatrix Consultants, Inc. (1994). *Phase II Assessment of VOCs in Soil and Groundwater, California Institution for Men Chino, California*. Prepared for the Department of General Services Development and Management. October 4, 1994.

the intermediate and deep zones where the drinking water supply wells are screened.⁵ Between August 1994 and May 2001, a network of 43 monitoring wells at varying depths in the shallow, intermediate, and deep aquifer zones were constructed.

In 1997, the Regional Board approved an interim pump-and-treat system for the hydraulic containment of VOC-affected groundwater using Well 1. In 2001, construction began on two new CIM water supply wells (Wells 14 and 15) and associated pipelines to prevent VOC-impacted groundwater at the southern end of the plume from migrating away from the site. Additionally, two agricultural wells were destroyed to protect the deeper aquifer from the downward movement of VOC contaminated groundwater due to pumping.

The 43 monitoring wells were sampled intermittently through 2007 to analyze the extent and concentrations of VOCs in the groundwater beneath the CIM property. It was determined that the VOC impacts to groundwater were limited to the source area and immediately downgradient. Furthermore, the plume had not and was not expected to migrate off the property. A final monitoring event was conducted by the State in January 2007, which included groundwater quality sampling at 39 water supply and monitoring wells at the CIM property.⁶ The results of this and previous monitoring events indicated that despite the PCE concentrations exceeding the MCL at three monitoring wells, PCE concentrations in the shallow groundwater were decreasing or remaining stable. PCE concentrations in the deeper aquifer at the CIM drinking water supply wells had been below the MCL since April 2003 with a few exceptions in early/mid 2006. Moreover, there had been no detections of TCE or other VOCs above the MCL in groundwater samples since December 2002.

In February 2007, the State submitted a request to the Regional Board for a No Further Action (NFA) finding for groundwater remediation and monitoring at the CIM site. On December 17, 2009, the Regional Board issued a determination of NFA for the CIM site.⁷

In March 2019, the Regional Board formally rejected the State's request for closure of the State Garage LUST site located northwest of the CIM drinking water supply Well 1A within the center of the PCE plume, and requested further assessment to determine if fuel-related contaminants beneath the site could impact downgradient Well 1A.⁸ An investigation was completed in May 2020 and a report on the monitoring and findings was submitted to the Regional Board in July 2020.⁹ The investigation concluded that (1) fuel-related contaminants have decreased several orders of magnitude in the perched aquifer below the State Garage LUST site and (2) the downgradient extent of the dissolved total petroleum hydrocarbon plume from the site is not migrating and has not impacted the CIM water supply Well 1A. However, the findings indicated that gasoline residue remains in the soil downgradient of the source area. Despite the gasoline residue in the soil, results from the groundwater monitoring event in May 2021 also

⁵ Geomatrix Consultants, Inc. (1997). *Phase III Groundwater Assessment and Remediation Planning Report, California Institution for Men, Chino*. July 21, 1997.

⁶ Geomatrix Consultants, Inc. (2007). *January 2007 Groundwater Monitoring PCE Remediation Project California Institution for Men Chino, California*. Prepared for the Department of General Services Real Estate Services Division Project Management Branch. May 17, 2007.

⁷ California Regional Water Quality Control Board, Santa Ana Region (2009). *Determination of No Further Action (NFA), Tetrachloroethylene Remediation Project, California Institution for Men, Chino*. December 17, 2009.

⁸ California Regional Water Quality Control Board, Santa Ana Region. (2019). *Response to Soil Vapor Investigation and Path to Closure, California Institution for Men, Garage*. March 8, 2019.

⁹ Avocet Environmental, Inc. (2020). *2020 Annual Groundwater Monitoring and Additional Investigations Report California Institution for Men – State Garage*. July 29, 2020.

indicated that fuel-related contaminants have decreased, and the extent plume is not migrating or impacting Well 1A.¹⁰ Due to these findings, the State recommended the State Garage LUST site for closure under the LTCP in August 2021.

REMEDIAL ACTION

In July 1997, the State implemented remediation activities, termed *The PCE Remediation Project*, with an interim remedial measure to pump and treat groundwater from Well 1.¹¹ The groundwater was treated for VOCs using air stripping. Operation of the air stripper continued until 2004, when the permeability of the air stripper packing was compromised by the accumulation of mineral precipitates. During its operation, the pump-and-treat process at Well 1 removed approximately 58 pounds of PCE and TCE collectively. After 2004, both PCE and TCE concentrations were below the MCL in groundwater extracted from Well 1, and pumping continued without treatment with approval from the CDHS and Regional Board. A supplemental remedial measure began in 2001, which included the construction of two new CIM water supply wells (Well 14 and Well 15), located in an area to intercept the toe of the VOC plume, promoting hydraulic containment of the VOCs within the groundwater beneath CIM. Wells 14 and 15 operated without treatment from January 2003 to December 2008; during this time, these two wells removed an additional 14 pounds of PCE and TCE collectively.

The need for remedial action was considered to address the elevated levels of PCE in the soil below the old laundry site, but it was determined that it would not be cost-effective in protecting the groundwater quality despite some potential contribution of PCE from the soil to groundwater beneath the site.

Remediation requirements at CIM ended in December 2009 with the Regional Board's determination of NFA. Since then, PCE has been periodically detected at concentrations above the MCL at CIM supply Wells 1 and 15. Additionally, other contaminants have been detected above their respective MCLs, including 1,2,3-TCP and nitrate. CIM operates a water treatment plant to remove contaminants for drinking water supply.

MONITORING AND REPORTING

The State conducted voluntary monitoring at CIM from 1992 to 2007 at 43 monitoring wells and 14 water supply wells. Voluntary monitoring ended in December 2009 with the Regional Board's determination of NFA. As part of the NFA, the State was required to decommission the monitoring wells located onsite in accordance with California Well Standards (DWR Bulletin No. 74-81). The State decommissioned majority of these wells and preserved 16 wells to be included in the Watermaster's groundwater-level monitoring program conducted pursuant to the *Optimum Basin Management Program (OBMP)*.¹² The location of these wells is included in Exhibit 1.

¹⁰ Avocet Environmental, Inc. (2021). *2021 Annual Groundwater Monitoring Report and Request for Closure*. Prepared for California Department of Corrections and Rehabilitation, FPCM – Environmental and Regulatory Compliance Section. August 17, 2021.

¹¹ Geomatrix Consultants, Inc. (2005). *PCE Remediation Project Report. California Institution for Men*. Prepared for the California Department of General Services. July 2005.

¹² Wildermuth Environmental, Inc. (1999). *Optimum Basin Management Program. Phase I Report*. Prepared for the Chino Basin Watermaster. August 19, 1999.

The CIM continues to monitor groundwater quality at its supply wells as part of its water supply operations under DDW regulations. The State samples the active drinking water supply wells for PCE and TCE monthly or bimonthly and reports the data to the DDW. Watermaster routinely collects all groundwater-quality data from the DDW's Water Quality Analyses Database for the CIM potable supply wells as part of the OBMP groundwater-quality monitoring program and uses these data to characterize the areal extent and concentration of the PCE plume every two years.¹³

RECENT ACTIVITY

There has been no further regulatory activity associated with PCE contamination monitoring and remediation at CIM since the NFA determination in December 2009.

The most recent characterization of the plume was completed by Watermaster in the *2020 State of the Basin Report* (Exhibit 1). Based on available data, the PCE plume has shown no significant change since the NFA determination.

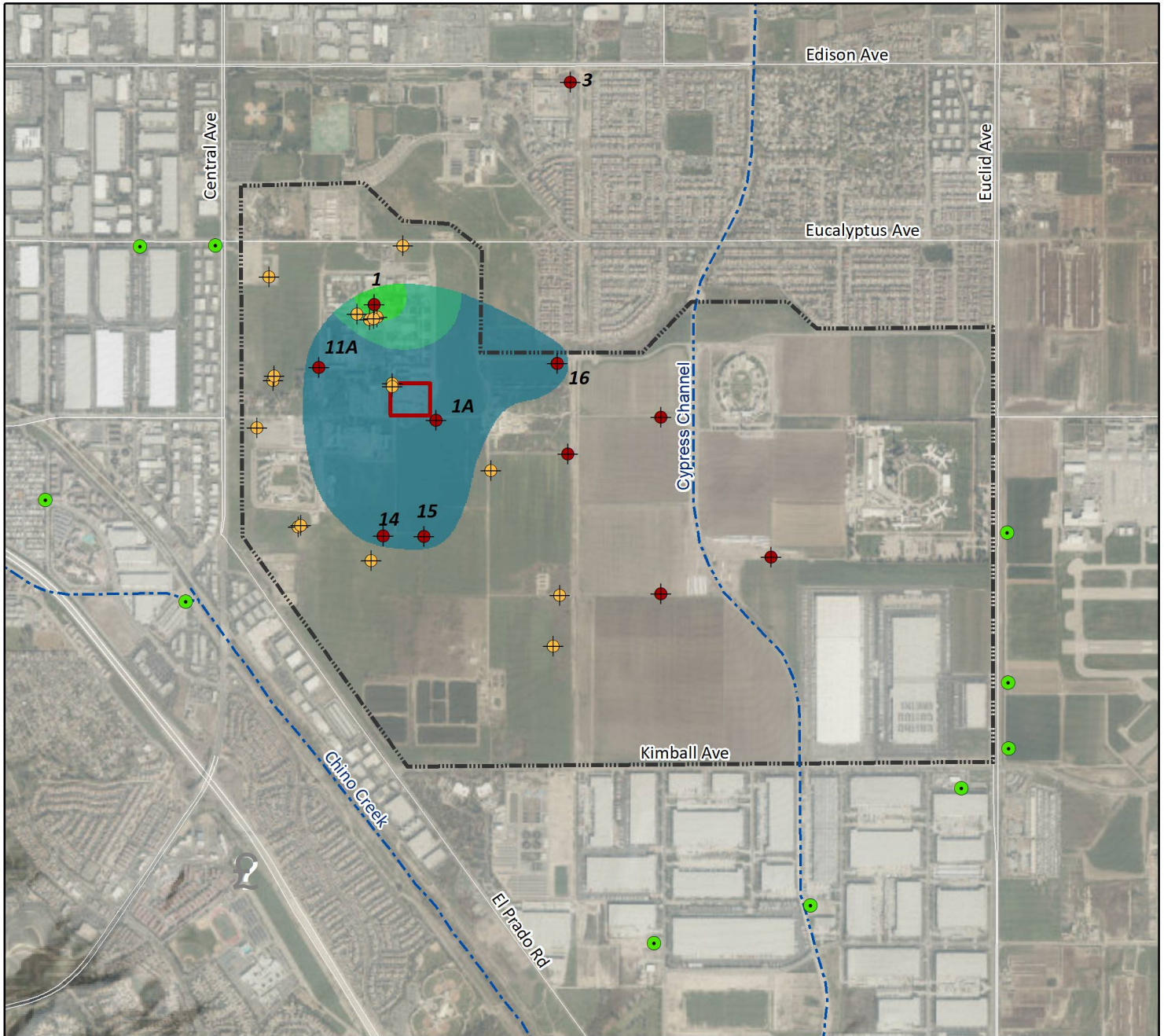
The State has recently sampled its drinking water supply wells pursuant to the DDW regulation. Table 1 below summarizes the five-year maximum PCE concentration (July 2017 to May 2022) sampled at the CIM drinking water supply wells.

Well	Maximum PCE, µg/l	Date
1	2.92	1/10/2018
1A	1.67	5/2/2018
3	ND (<0.5)	all samples in this period
11A	0.63	7/7/2021
15	2.39	5/1/2019
16	0.402	3/6/2019

In August 2021, the State recommended the closure of the CIM State Garage LUST site under the LTCP.¹⁴ This recommendation is currently pending review by the Regional Board.

¹³ https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.shtml

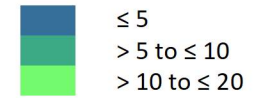
¹⁴ Avocet Environmental, Inc. (2021). *2021 Annual Groundwater Monitoring Report and Request for Closure*. Prepared for California Department of Corrections and Rehabilitation, FPCM – Environmental and Regulatory Compliance Section. August 17, 2021.



Maximum Concentration (µg/L)

July 2015 - June 2020

PCE

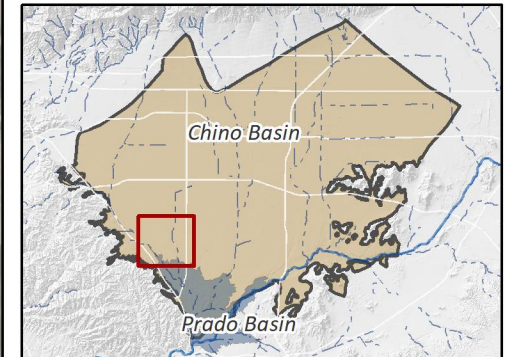


MCL = 5 µg/l

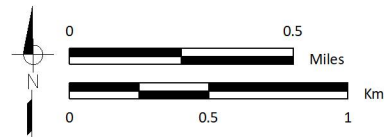
(Delineated by Watermaster in the 2020 State of the Basin Report)

- CIM Water Supply Well
- Other Agency Municipal Water Supply Well
- CIM Monitoring Well Preserved for the Watermaster Groundwater-Level Monitoring Program*
- CIM Property Boundary
- CIM State Garage LUST Boundary
- Streams & Flood Control Channels

*Some locations have multiple wells at various depths



Prepared by:



Prepared for:

Chino Basin Watermaster
Annual Plume Report



California Institution for Men (CIM)
PCE Plume

Annual Plume Status Report

General Electric Flatiron Plume October 2022

CONTAMINANTS

The primary contaminant is trichloroethene (TCE), which has a California maximum contaminant level (MCL) of 5 micrograms per liter (µg/l). The maximum TCE concentration detected in groundwater samples collected from wells within the plume in the last five years (July 2017 to June 2022) was 33,000 µg/l, measured at well MW-22A in April 2021; this is also the maximum TCE concentration ever measured at a plume monitoring well. Other contaminants of concern include tetrachloroethylene (PCE), total chromium, and hexavalent chromium. The five-year maximum concentrations for these contaminants are summarized in the table below.

Contaminant	MCL, µg/l	Max Concentration, µg/l	Sample Date	Well
PCE	5	5,800	July, 2020	MW-21
Total Chromium	50	3,810	April 2022	MW-23A
Hexavalent Chromium	50 ^(a)	5,100	April, 2022	MW-23A
Notes:				
(a) Currently, there is no MCL for hexavalent chromium. There was a California MCL of 10 µg/l for hexavalent chromium that was invalidated in 2016. The MCL for total chromium of 50 µg/l is currently used to regulate hexavalent chromium. The State Water Resources Control Board Division of Drinking Water is in the process of developing a new MCL for hexavalent chromium.				

LOCATION

The General Electric (GE) Flatiron TCE plume is located in the northern Chino Basin within the City of Ontario; it extends south-southwest from the former GE Flatiron Facility, located at 234 East Main Street. The Chino Basin Watermaster (Watermaster) last updated its delineation of the extent of the plume in the *2020 State of the Basin Report*.¹ This characterization is based on the five-year maximum TCE concentration measured between July 2015 and June 2020. The extent of the plume with TCE concentrations greater than 0.5 µg/l measures approximately 0.6 miles wide and about 2.3 miles long. Exhibit 1 shows the location and extent of the TCE plume as delineated by Watermaster in 2020 and the

¹ West Yost. (2021). *Optimum Basin Management Program – 2020 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2021.

most recent delineation of the plume prepared by GE in 2016.² Note that GE's 2016 delineation of the plume does not account for water quality data collected from monitoring well clusters MW-19 through MW-24, which were constructed in 2017. For this reason, the TCE plume delineated by Watermaster shows a larger extent than the GE delineation.

SITE HISTORY

GE manufactured clothes irons at the Flatiron Facility from the early 1900s to 1982. During World War II, the facility was also used to manufacture equipment to support the war effort for the U.S. War Department. In 1982, GE closed the facility and sold the property. Since then, ownership has changed several times; the property is currently owned by Ontario Business Park, LLC.

REGULATORY ORDERS

- Investigative Order No. 87-146—Requires the characterization of onsite conditions and groundwater beneath and downgradient of the GE Flatiron site using gas surveys, soil boring installation and sampling, and groundwater monitoring well installation and sampling.
- Waste Discharge Requirements (WDRs) and Monitoring and Reporting Programs (M&RPs) Order No. 95-62 and R8-2011-0019 (current)—General WDRs and M&RPs for the discharge of treated water from the pump-and-treat system.

REGULATORY AND MONITORING HISTORY

In 1987, groundwater-quality samples collected from an inactive City of Ontario production well downgradient of the Flatiron Facility had TCE and chromium concentrations above drinking water MCLs. This prompted the Santa Ana Regional Water Quality Control Board (Regional Board) to request that GE prepare a Phase I investigation to determine if the Flatiron Facility was the source of the contaminants detected. The results of the Phase I investigation prompted the Regional Board to issue Investigative Order No. 87-146, requiring GE and West End Investments (the property owner at the time) to characterize onsite conditions and the groundwater flow gradient beneath the Flatiron Facility. The Phase II through V investigations^{3, 4, 5, 6} included soil gas surveys, soil boring installation and sampling, as well as groundwater monitoring well installation and sampling, to define the extent of contaminants in groundwater both on and offsite. These investigations, conducted from 1987 to 1992, indicated that a contaminant plume was present beneath and downgradient of the Flatiron Facility and showed that the TCE and total dissolved

²Amec Foster Wheeler. (2016). *2016 Conceptual Site Model Former General Electric Company Housewares* Site 234 East Main Street, Ontario, California. Prepared for General Electric Company. October 4, 2016.

³ Bechtel Environmental, Inc. (1989). *Phase II Soil and Groundwater Investigation*, Former GE Flatiron Manufacturing, Ontario, California. January 1989.

⁴ Bechtel Environmental, Inc. (1990). *Phase III Investigation Report*, Former GE Flatiron Manufacturing, Ontario, California. August 1990.

⁵ Geomatrix Consultants, Inc., and Beak Consultants Ltd. (1992). *Phase IV Investigation Report* 234 East Main Street and Vicinity, Ontario, California. January 1992.

⁶ Geomatrix Consultants, Inc., and Beak Consultants Ltd. (1993). *Phase V Investigation Report* 234 East Main Street and Vicinity, Ontario, California. January 1993.

chromium concentrations in groundwater were above the California primary MCLs of 5 and 50 µg/l, respectively.

In 1993, the results from the multi-phase investigation prompted the proposal of an interim remedial measure (IRM) for groundwater contamination. Local and regional-scale numerical groundwater models were constructed to provide a basis for the design of the IRM and were used to investigate the use of extraction wells to obtain hydraulic containment near the downgradient extent of the plume. In December 1993, extraction well EW-01 was completed. A monitoring well and three piezometers were also constructed nearby to provide observation points during aquifer testing at EW-01. The IRM began in 1996 and involved pumping groundwater from EW-01, treating it at GE Flatiron's groundwater treatment system to remove TCE and other contaminants of concern, and discharging the treated water to the Ely Basins recharge basins. Discharge to the Ely Basins was regulated under WDR Order No. 95-62, issued by the Regional Board.

In 1995, a feasibility study was completed to evaluate groundwater and soil remediation alternatives.⁷ In October of 1997, the Regional Board approved a groundwater remediation alternative that included the ongoing use of extraction well EW-01 and the construction of an additional extraction well (EW-02) near the center of the contaminant plume to pump and treat contaminated groundwater. Extraction well EW-02 was constructed in 1999 and began operation in 2002. In 2003, GE constructed a soil vapor extraction (SVE) system to remove VOC mass from impacted site soils. The system consisted of five SVE wells and a treatment system. It was completed and began operation in 2003.

Due to the Inland Empire Utilities Agency (IEUA) and Watermaster's increased use of the Ely Basins for storm, recycled, and imported water recharge, capacity eventually became insufficient for GE's discharge into the Ely Basins. In 2005, GE began evaluating alternative discharge options for its treated groundwater and decided to install an injection well field at 2025 South Bon View Avenue to accept the treated groundwater. In 2011, the Regional Board approved WDR Order R8-2011-0019 to modify the point of discharge for the treated groundwater to injection wells located at this site.⁸ The 2011 WDR defines the discharge prohibitions, effluent limitations, and required monitoring and reporting program.

In 2015, GE submitted a work plan to the Regional Board to outline a program for evaluating the effectiveness of existing remedial measures and to provide recommendations for additional investigation or remediation.⁹ Implementation of the work plan began in 2016 with the drilling of four borings to collect discrete-depth soil and groundwater samples, which were tested for TCE, PCE, total dissolved chromium, and hexavalent chromium.

In 2016, the Regional Board required the development of a conceptual site model that incorporated all historical data and new information from recent investigations. This model was to be used to develop a framework to identify data gaps and guide future decisions on investigation, monitoring, and remedial

⁷ Geomatrix Consultants, Inc. (1995). *Feasibility Study Report*, 234 East Main Street and Vicinity, Ontario, California. November 1995.

⁸ Santa Ana Regional Water Quality Control Board. (2011). *Issuance of Waste Discharge Requirements for General Electric Company, GE Francis Water Treatment Plant*, San Bernardino County, Order No. R8-2011-0019. April 22, 2011.

⁹ Amec Foster Wheeler. (2015). *Work Plan for Supplemental Remedial Investigation*. 234 East Main Street and Vicinity, Ontario California. Prepared for General Electric Company. March 30, 2015.

actions.¹⁰ One critical component of the conceptual site model, as highlighted by the Regional Board, was the installation of a sentinel monitoring well downgradient of the plume.

On June 22, 2016, a work plan was submitted to the Regional Board, defining the plan and schedule to construct a new-multi-depth well cluster (MW-19) to further assess the dissolved-phase chromium and VOC concentrations downgradient of the known plume extent.¹¹ The first sampling event at well cluster MW-19 in January 2017 indicated that TCE concentrations in the shallow casing were greater than the MCL. This finding prompted the Regional Board to request that an additional monitoring well cluster be constructed downgradient of MW-19 and upgradient of the City of Chino's municipal production well (Chino-11) to allow for further evaluation of the plume's extent. On November 14, 2016, GE submitted a work plan for the construction of well cluster MW-20, to be located about 420 feet upgradient from Chino-11, and by May 2017, construction was complete.¹² The first sampling event at well cluster MW-20 in July 2017 indicated that TCE in the intermediate-depth casing (MW-20B) was greater than the MCL.

From May 2016 to March 2017, four additional monitoring well clusters (MW-21 through MW-24) were constructed at the upgradient end of the plume as part of the supplemental remedial investigation activities. Since monitoring began at these well, the highest concentrations of PCE, TCE, total dissolved chromium, and hexavalent chromium associated with the plume are detected at these wells (specifically, MW-21 through MW-23).

REMEDIAL ACTION

Groundwater

In 1996, GE began operation of a groundwater treatment system located at 501 West Francis Street in Ontario, CA. Its two extraction wells (EW-01 and EW-02) began operating in 1996 and 2002, respectively, and are intended to prevent migration of the plume. EW-01 pumps at an approximate rate of 850 gallons per minute (gpm), and EW-02 pumps at a rate of approximately 600 gpm. Groundwater pumped from the extraction wells is conveyed by separate pipelines to the treatment system where it is combined into a single stream and treated. Pumped groundwater is first treated with an ion exchange resin, which removes chromium, and then with liquid-phase granular activated carbon to remove VOCs. As detailed in WDR Order No. R8-2011-0019, the discharge from the treatment system facility is required to have average monthly concentrations of TCE, PCE, 1,1,1-TCA, and chromium below their respective MCLs of 5, 5, 200, and 50 µg/l. Currently, three injection wells (IW-01, IW-02, and IW-03) are used to inject treated water into the Chino Basin. Exhibit 1 shows the locations of the extraction wells, the treatment system facility, and the injection well field. As of August 2022, EW-01 and EW-02 had extracted about 16,090

¹⁰ Amec Foster Wheeler. (2016). *2016 Conceptual Site Model*. Former General Electric Company Housewares Site 234 East Main Street, Ontario, California. Prepared for General Electric Company. October 4, 2016.

¹¹ Amec Forster Wheeler. (2016). *Work Plan for Installation of Cross-Gradient Monitoring Well Clusters*. General Electric Company Former Flatiron Facility. Prepared for General Electric Company. August 15, 2016.

¹² Amec Forster Wheeler. (2016). *Work Plan for Installation of Additional Sentinel Monitoring Well Cluster*. General Electric Company Former Flatiron Facility. Prepared for General Electric Company. November 14, 2016.

acre-feet and 4,970 acre-feet of groundwater, respectively.¹³ Collectively, the treatment system has removed approximately 13,000 pounds of TCE and 4,300 pounds of chromium.¹⁴

Soil

In 2003, in accordance with the *Draft Remedial Action Plan*, GE began operating a soil vapor extraction (SVE) system to treat TCE and PCE in the soil, as well as 1,1,1-trichloroethane and 1,1,2-trichloroethane.^{15,16} The SVE system consisted of five onsite soil vapor extraction wells, which extracted VOC impacted vapors from the shallow soils. In 2007, GE constructed three additional SVE wells, which were later connected to the system.¹⁷ On June 21, 2018, GE submitted its *Work Plan for Interim Measures – Phase I Expansion* to the Regional Board for an expansion of the SVE system to reduce potential migration of soil vapor off site and to groundwater.¹⁸ Between 2019 and 2020, GE expanded the treatment system and installed three nested deep SVE wells and three shallow SVE wells. On April 8, 2021, following the installation of the new SVE wells, GE submitted the *Implementation of the Phase I Expansion of the Interim Measures* summarizing the work performed.¹⁹ As of the second quarter 2022, the system had not started operation. There are currently six SVE wells connected to the system, and in total, the SVE system has removed a total of 48,985 pounds of VOCs.²⁰

MONITORING AND REPORTING

The monitoring and reporting program for the GE Flatiron site includes both plume and remediation system monitoring and reporting. The objectives of the respective programs are to monitor groundwater elevations and the concentrations/extents of the dissolved-phase plume over time and to track and evaluate the performance of the remediation system.

The plume monitoring and reporting includes measuring groundwater levels and collecting groundwater-quality samples for chemical analyses from monitoring wells at a quarterly frequency. Currently, depth to groundwater is measured at 31 wells and three piezometers every quarter. Groundwater-quality samples are also collected from 31 monitoring wells and three piezometers, although the number of wells sampled each quarter varies based on the specific quarter's monitoring plan. Water-quality samples are analyzed

¹³ Wood. (2022) GE Flatiron Facility Treatment System Summary – August 2022. August 30, 2022 email from Paul Deutsch to Regional Board.

¹⁴ Wood Environment & Infrastructure Solutions, Inc. (2022). *First Half 2022 Groundwater Monitoring and Remediation Report*. Prepared for General Electric Company. July 20, 2022.

¹⁵ Geomatrix. (2002). *Draft Remedial Action Plan*. August 2002.

¹⁶ Geomatrix. (2003). *SVE Implementation Report*. July 2003.

¹⁷ Arcadis U.S., Inc. (2007). *Soil Vapor Extraction System Modification Workplan, General Electric (GE) Flatiron Facility*, 234 E. Main Street, Ontario, CA. Letter to General Electric Company. August 21, 2007.

¹⁸ Wood Environment & Infrastructure Solutions, Inc. (2018). *Work Plan for Interim Measures – Phase I Expansion*. June 21, 2018.

¹⁹ Wood Environment & Infrastructure Solutions, Inc. (2021). *Implementation of the Phase I Expansion of the Interim Measures, General Electric Company Flatiron Facility*, 234 East Main Street and Vicinity, Ontario, California. Prepared for General Electric Company. April 8, 2021.

²⁰ Wood Environment & Infrastructure Solutions, Inc. (2022). *Second Quarter 2022 Soil Vapor Extraction System Operation, Maintenance, and Monitoring Status Report*. Prepared for General Electric Company. July 26, 2021.

for dissolved metals, VOCs, and general minerals. Reports summarizing the results of the GE Flatiron groundwater monitoring are published semiannually in January and July.

The remediation system monitoring and reporting consists of the monitoring for the operations for both the groundwater and SVE treatment systems. For the groundwater treatment system, at a minimum, monthly sampling and analysis of the influent to the treatment plant from EW-01 and EW-02 and treated effluent is performed pursuant to WDR Order No. R8-2011-0019. The results from the treatment system monitoring are included in the semiannual reports for the groundwater monitoring. Additionally, monthly reports are submitted to the Regional Board on the groundwater treatment system operations and compliance for WDR Order No. R8-2011-0019.

For the SVE treatment system, monitoring activities occur both weekly and monthly, and reporting activities occur quarterly in compliance with the Sampling and Monitoring Plan.²¹ Additionally, indoor air sampling is conducted on a semiannual basis. Overtime, the monitoring has demonstrated that vapor mitigation measures are effective at controlling vapor intrusion.

All semiannual and monthly reports, and other relevant documents/data, can be found on the State Water Resources Control Board [GeoTracker website](#).²²

RECENT ACTIVITY

The most recent groundwater monitoring report prepared by GE is the *First Half 2022 Groundwater Monitoring and Remediation Report*.²³ This report summarizes groundwater monitoring at 31 wells and three piezometers, as well as the remediation activities performed between January 1 and June 30, 2022. The following describes the key findings presented in the report:

- Groundwater elevations generally increased over the reporting period following a decrease from 2020 to 2021.
- Concentrations of all four contaminants of concern remain stable and consistent with historical values.
- MW-23A had the highest concentrations of PCE, TCE, chromium, and hexavalent chromium. The values are as follows: 1,000 µg/l and 19,000 µg/l for PCE and TCE, respectively and 4,730 µg/l and 5,100 µg/l for chromium and hexavalent chromium, respectively.
- Overall, the highest concentrations of TCE, PCE, total dissolved chromium, and hexavalent chromium continue to be detected at onsite wells at the north end of the plume (MW-21 through MW-23).
- In both quarters, TCE and chromium concentrations were below the MCL in wells downgradient of EW-01.
- During this reporting period, the treatment system was periodically operating at reduced capacity or shutdown. EW-02 remained offline from June 2021 to May 2022. During this time EW-01 remained in operation until mid-February, when it was shut down for required

²¹ Geomatrix. (2002). *Sampling and Monitoring Plan*. Prepared for General Electric Company. 2002.

²² https://geotracker.waterboards.ca.gov/profile_report?global_id=SL0607132486

²³ Wood Environment & Infrastructure Solutions, Inc. (2022). *First Half 2022 Groundwater Monitoring and Remediation Report*. Prepared for General Electric Company. July 20, 2022.

maintenance. Due to decreasing water levels, EW-01 was operating at below capacity throughout this period of time. During March and April 2022 the treatment system was shut down while both extraction wells not in operation. EW-02 started operating again in May upon the completion of necessary repairs and operated until mid-June when the treatment system was shut down for repairs and both extraction wells were shut off again. During the operational period of the extraction wells, water was injected to two injection wells at a time, rotating between the three injection wells. The treatment system was expected to have a full system re-start in September 2022, using both extraction wells and all three injection wells.

GE will continue remediation and monitoring at the Flatiron Facility pursuant to the Regional Board Cleanup Status of Open – Assessment & Interim Remedial Action. Groundwater monitoring activities are scheduled for October 2022, and the next semiannual monitoring report will be submitted to the Regional Board in 2023.

In July 2021, the City of Chino wrote a letter to the Regional Board to request information on the migration and remediation of the GE Flatiron plume and to investigate whether the City's Well 11 directly downgradient of the Flatiron plume, is or will be impacted by the plume. The City of Chino is planning to start up Well 11 that has been out of service since 2018 due to levels of 1,2,3-TCP that exceeded the MCL, and treat groundwater from Well 11 at the City's Eastside Water Treatment Facility. The State of California Division of Drinking Water's (DDW) recommended Well 11 be sampled for TCE and PCE that potentially migrated from the Flatiron plume to the well. The results yielded TCE detected in Well 11 above the MCL, resulting in additional requirements by the DDW for permitting the well. The Regional Board responded to the City of Chino in October 2021.²⁴ In the letter, the Regional Board acknowledged that the current extraction well network in the GE Flatiron plume does not adequately address the migration of the plume, and that the TCE contamination in the plume is likely from the migration of the GE Flatiron plume. The Regional Board requested that GE install an additional monitoring well cluster downgradient of Well 11 so that GE can delineate the full extent of the GE Flatiron VOC plume. They stated that the new well cluster should be constructed before the start-up of Well 11 since operating the well could complicate the investigation and possibly move the plume into deeper zones.

On August 30, 2021, GE submitted a *Work Plan for Groundwater Investigation Downgradient of Chino 11 and Engineering Studies for Installation of Groundwater Extraction Well EW-03* to the Regional Board.²⁵ The objectives of the work plan are to:

- evaluate whether the site-related plume of TCE and hexavalent chromium extends to the area downgradient of City of Chino Well 11 with the construction of a new well cluster; and
- determine the optimum location for an anticipated third extraction well in the area between wells EW-01 and EW-02.

On September 1, 2022 GE submitted a *Technical Report for Groundwater Investigation Downgradient of Chino 11* with results from the work done to investigate the presence of VOCs downgradient of Well 11,

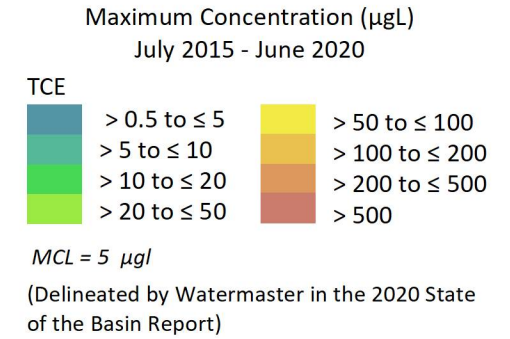
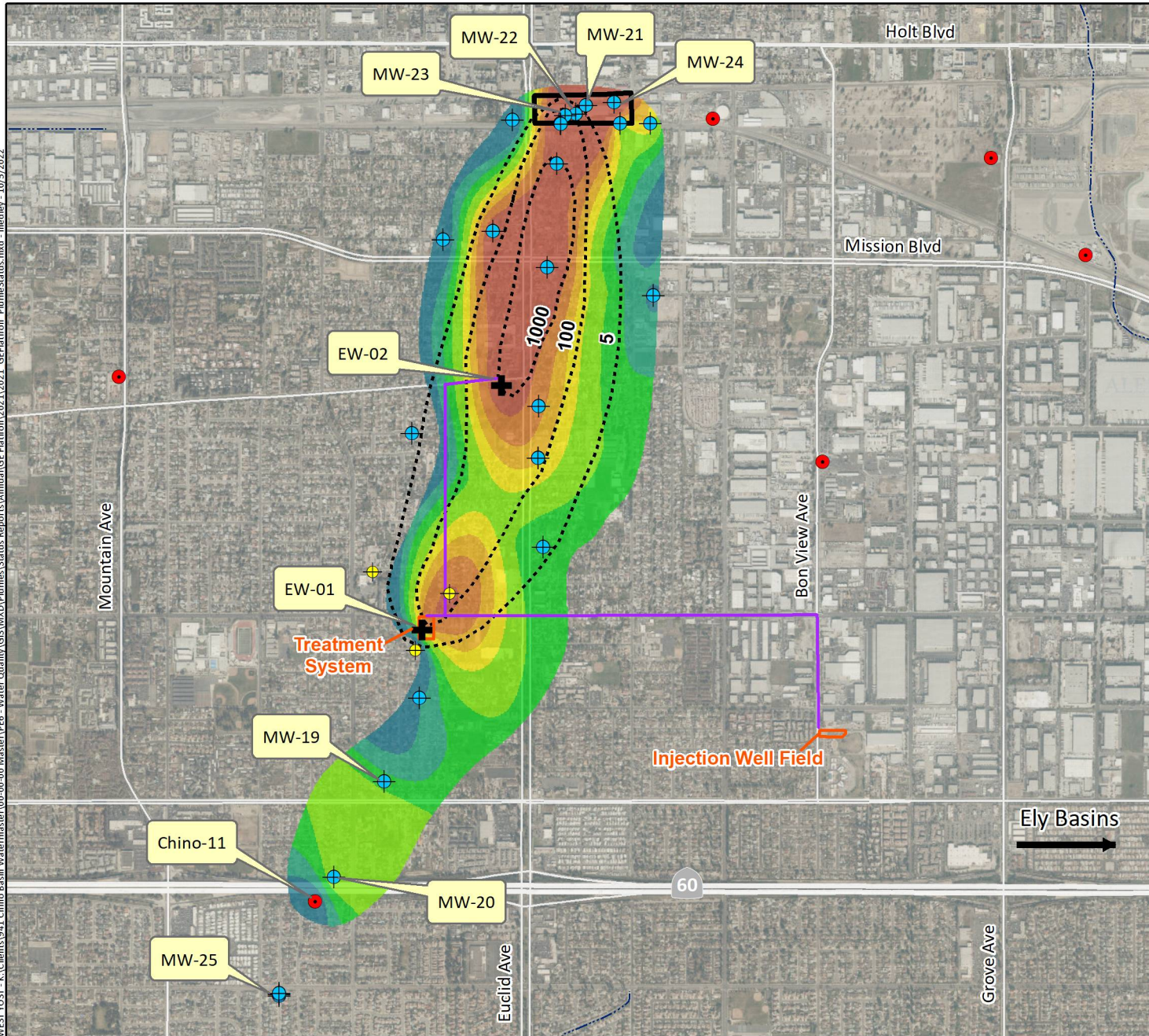
²⁴ Regional Board. (2021) Response to the City of Chino's Letter regarding General Electric Flatiron Contaminant Plume for GE Flatiron. Letter dated October 18, 2021.

²⁵ Wood Environment & Infrastructure Solutions, Inc. (2021). *Work Plan for Groundwater Investigation Downgradient of Chino 11 and Engineering Studies for Installation of Groundwater Extraction Well EW-03*. Prepared for General Electric Company. August 30, 2021.

as described in work plan.²⁶ The engineering studies for installation of new groundwater extraction well EW-03 will be submitted under a separate cover. As part of the work, GE installed well cluster MW-25 with three discrete-depth monitoring wells (A, B, C). On May 6, 2022, following the completion of well development, groundwater samples were collected from MW-25A, MW-25B, and MW-25C. PCE was not detected in any of the discrete-depth groundwater samples collected from the MW-25 well cluster location. TCE was not detected in MW-25A or MW-25B, but was detected in the sample from MW-25C at a concentration of 3.8 µg/l. Hexavalent chromium was detected in all three wells at concentrations of 9.8-13 µg/l. These values are similar to historical concentrations in monitoring wells upgradient of the GE Flatiron site.

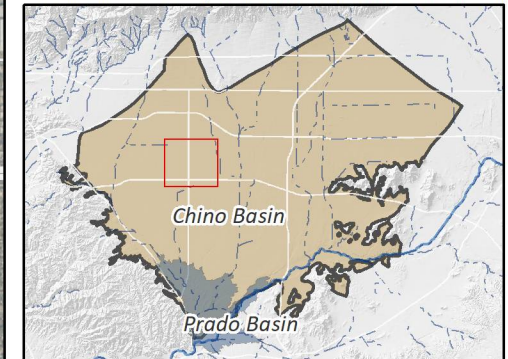
²⁶ Wood Environment & Infrastructure Solutions, Inc. (2022). *Technical Report for Groundwater Investigation Downgradient of Chino 11*. Prepared for General Electric Company. September 1, 2022.

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00 Master\PE6 - Water Quality\GIS\MXD\Plumes\Status Reports\Annual\GE Flatiron\02-1\2021_GEFatiron_PlumeStatus.mxd - thefiley - 10/5/2022

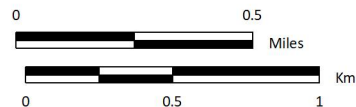
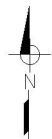


- Contours of TCE Concentration ($\mu\text{g/l}$) (Delineated by GE in the 2016 Conceptual Site Model)
- GE Extraction Well
- GE Monitoring Well (some locations have multiple wells at various depths)*
- GE Piezometer
- Active/Inactive Potable Municipal Water Supply Well
- Former GE Flatiron Property Boundary
- Conveyance Pipeline

* Wells are labeled by well name if mentioned in the report



Prepared by:



Prepared for:

Chino Basin Watermaster
Annual Plume Report



General Electric (GE) Flatiron
TCE Plume

Annual Plume Status Report

General Electric Test Cell Plume October 2022

CONTAMINANTS

The primary contaminant is trichloroethene (TCE). The California maximum contaminant level (MCL) for TCE is 5 micrograms per liter (µg/l). The maximum TCE concentration detected in a groundwater sample collected from a well within the plume during the last five years (July 2017 to June 2022) is 2,300 µg/l, measured at well OW-15Pi in October 2018. This is also the highest concentration of TCE ever measured at a well within the plume. Other contaminants of concern include the following volatile organic compounds (VOCs): tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis-1,2-dichloroethene (cis-1,2-DCE). The five-year maximum concentrations for these contaminants are summarized in the table below:

Table 1. Maximum Concentration of Contaminants of Concern between July 2017 to June 2022				
Contaminant	MCL, µg/l	Max Concentration, µg/l	Sample Date	Well
TCE	5	2,300	10/2018	OW-15
PCE	5	55	04/2020	MW-8-s
1,1-DCE	6	32	07/2020	OW-18-d
1,2-DCA	0.5	2.2	01/2020	MW-8-s
cis-1,2-DCE	6	32	04/2019	MW-9-s

LOCATION

The General Electric (GE) Test Cell plume is located in the central Chino Basin in the City of Ontario, south of the Ontario International Airport. It extends southwest from the former GE Engine Services Test Cell Facility (Test Cell Facility) located at 2264 East Avion Place. The plume is elongated and extends offsite from the facility in a downgradient direction approximately 1.9 miles, and measures approximately 0.5 miles wide. The most recent delineation of the extent of the plume was done by Chino Basin Watermaster (Watermaster) for the *2020 State of the Basin Report*.¹ This characterization is based on the five-year maximum TCE concentration measured over the period of July 2015 through June 2020. Exhibit 1 shows

¹ West Yost Associates. (2021). *Chino Basin Optimum Basin Management Program, 2020 State of the Basin Report*. Prepared for Chino Basin Watermaster. June 2021.

the location and extent of the plume as delineated by Watermaster in 2020, compared to the most recent characterization by GE in its *2022 Second Quarter Groundwater Monitoring Report*.²

SITE HISTORY

From 1956 to 2010, the Test Cell Facility was used to test and maintain commercial and military jet engines. Chlorinated solvents used at the facility for cleaning and degreasing, including TCE, were stored in 55-gallon drums and aboveground storage tanks. In the early 1970s, TCE was replaced with 1,1,1-TCA, which was then replaced in 1981 with isopropyl alcohol—the only solvent used onsite through 1996. Until 1974, wastewater with residual solvents, along with fuel and oil residues, was diverted to below-ground separators where it was recycled. Excess wastewater from the separators occasionally flowed into a natural wash along the north side of the property, which drained into the Cucamonga Creek. From 1974 to 1980, two dry wells were connected to the separators, extending approximately 270 feet below ground surface (ft-bgs). From 1980 to 2006, wastewater continued to be captured by the separators where it was either recycled or treated offsite. Beginning in 2006, the wastewater was stored in above ground storage tanks and transported offsite for treatment and disposal. The Test Cell Facility ceased operations in 2011, and the site is currently vacant.

REGULATORY ORDERS

- State of California Department of Health Services (CDHS) Docket No. 88/89- 009CO. Consent Order Health and Safety Code Section 25355.5(a)(1)(B) and 25355.5 (a)(1)(C). In the Matter of: General Electric Engine Maintenance Center. September 1988. This Order required GE to perform a remedial investigation and feasibility study to evaluate and monitor soil, surface water, and groundwater contamination at the site and to prepare a remedial action plan.

REGULATORY AND MONITORING HISTORY

In 1984, an investigation performed by C.H.J, Inc. soil engineers detected TCE, PCE, 1,1,1-TCA, and dibromochloromethane in soil samples in the vicinity of the dry wells. Results from this investigation were deemed invalid due to inappropriate analytical methods.³ In 1985, another consulting firm retained by GE detected 1,1,1-TCA, TCE, and PCE in onsite subsurface soil samples.⁴ An investigation performed in 1987 revealed the presence of multiple VOCs in the soil near the disposal sites.⁵

In 1988, a Consent Order was signed between GE and the CDHS (now Department of Toxic Substances and Control [DTSC]) to initiate an investigation of soil, surface water, and groundwater contamination, and the appropriate remedial actions. In 1990, GE performed a Phase I remedial soil investigation to

² Wood Environmental & Infrastructure Solutions, Inc. (2022). *Second Quarter 2022 Groundwater Monitoring Report*. Prepared for GE Engine Services Test Cell Facility. July 22, 2022.

³ The investigation is described in State of California Department of Health Services. (1998). Docket No. 88/89-009CO. Consent Order Health and Safety Code Section 25355.5(a)(1)(B) and 25355.5 (a)(1)(C). In the Matter of General Electric Engine Maintenance Center. September 1988.

⁴ Ibid.

⁵ Dames & Moore. (1987). *Subsurface Investigation, Ontario California, for General Electric Aviation Services Operations*. Prepared for GE Engine Services Test Cell Facility. February 4, 1987.

determine the impacts of VOCs and jet fuel in the soil in the vicinity of the dry wells and Cucamonga Creek.⁶ During the Phase I remedial investigation, VOCs were detected in soil samples collected onsite and in excavated soil from the dry wells. Phase II of the remedial investigation was aimed at assessing groundwater conditions beneath the site, including an evaluation of the nature, extent, and migration characteristics of dissolved VOCs in groundwater.^{7,8} In 1991, as part of the Phase II investigation, GE installed seven monitoring wells onsite and upgradient of the site. Monitoring performed at these wells indicated the presence of VOCs in groundwater beneath the Test Cell Facility with the possibility of offsite migration. Pursuant to the DTSC 1988 Consent Order, a feasibility study and a remedial investigation was completed in 1993, and a remedial action plan was prepared in 1994.^{9,10,11} The remedial action identified was an in-situ soil vapor extraction treatment system (VETS) to reduce VOCs to levels that would not impact groundwater. The VETS began operating in 1996.

In 1994, the Santa Ana Regional Water Quality Control Board (Regional Board) was retained as the lead agency to oversee the groundwater investigation, while the DTSC maintained oversight of the soil investigation and operation of the VETS. The Regional Board requested an offsite investigation be performed to determine the extent of groundwater contamination. An extensive offsite investigation was completed in multiple phases from 1995 to the early 2000s. The initial phase was completed in 1995 and included the installation of four offsite monitoring wells. Offsite groundwater investigations continued from 1996 to the early 2000s when 22 additional offsite monitoring wells were constructed within multi-depth well clusters. Monitoring at these wells indicated that the VOC plume composed of TCE, cis-1,2-DCE, and 1,1-DCE (byproducts of TCE degradation) extended offsite. Between 2001 and 2002, two offsite multi-depth well clusters were installed to provide information on the vertical distribution of VOCs. Monitoring of these multi-depth wells indicated that TCE concentrations in the plume were highest in the intermediate and deep interval zones. In 2003, GE submitted a groundwater feasibility study to the Regional Board (2003 Feasibility Study), followed by a draft remedial action plan (RAP) in 2006.^{12,13} The 2003 Feasibility Study and 2006 RAP identified pump-and-treat and monitored natural attenuation as remedial alternatives.

⁶ Dames & Moore. (1990). *Phase I Remedial Investigation, Engine Maintenance Center Test Cell Facility, Ontario, California*. Prepared for General Electric Company. 1990.

⁷ Dames & Moore. (1990). *Phase II A Remedial Investigation Work Plan, Engine Maintenance Center Test Cell Facility, Ontario, California*. Prepared for General Electric Company. 1990.

⁸ Dames & Moore. (1991). *Phase II B Remedial Investigation, Engine Maintenance Center Test Cell Facility, Ontario, California*. Prepared for General Electric Company. 1991.

⁹ Dames & Moore. (1993). *Feasibility Study Report, General Electric Jet Engine Test Cell Facility, Jet Engine Test Cell Facility, 2264 Avion Place, Ontario, California*. 1993.

¹⁰ Dames & Moore (1993). *Remedial Investigation Report, Jet Engine Test Cell Facility, 2264 Avion Place, Ontario California*. 1993

¹¹ Dames & Moore. (1994). *Remedial Action Plan for Impacted Soil, General Electric Jet Engine Test Cell Facility, 2264 Avion Place, Ontario, California*. September 16, 1994.

¹² Geosyntec. (2003). *Groundwater Feasibility Study – GE Engines Test Cell Facility, Ontario, California*. Prepared for GE Engine Services. December 3, 2003.

¹³ Geosyntec. (2006). *Draft Groundwater Remedial Action Plan, GE Engine Services Test Cell Facility, 2264 Avion Place, Ontario, California*. Prepared for GE Engine Services Test Cell Facility. November 17, 2006.

In 2005 and 2008, GE submitted five-year review reports to the DTSC in compliance with the 1988 Consent Order on the evaluation of the soil VETS.^{14,15} Following the 2008 report, GE requested site closure and to cease operation of the soil VETS. The DTSC granted final closure and completion of the soil remediation in 2009 with the condition that institutional controls were implemented to limit the site to commercial/industrial uses.

Following the closure of the soil VETS, GE continued conducting quarterly groundwater monitoring at their network of onsite and offsite monitoring wells and constructed additional multi-depth wells at six locations.

In May 2019, the DTSC transferred regulatory oversight of all environmental activities at the Test Cell Facility to the Regional Board, including the soil investigation, for the following reasons: (1) the Regional Board is currently the lead agency that is overseeing the groundwater investigations related to the site; (2) there have been recent increasing trends in VOC concentrations in some groundwater monitoring wells that may require additional evaluation; and (3) to minimize any overlap of the investigation or cleanup activities between the two agencies.

In 2019, the Regional Board stated that the impacts to groundwater and soil had not been adequately addressed and indicated that monitored natural attenuation may not be suitable as the only groundwater remedial action, and requested that GE prepare a Conceptual Site Model (CSM) to aid in determining the appropriate remedial action.¹⁶ GE submitted the CSM to the Regional Board in November 2019.¹⁷ The CSM showed that TCE concentrations near the onsite source area (old dry wells) have decreased one to two orders of magnitude since monitoring began, demonstrating the success of the onsite remediation of soil vapor. Also, TCE concentrations in the most downgradient monitoring well (OW-11) have remained below the MCL since monitoring began. Several monitoring wells located along the northern edge of the plume have, however, shown notable increases in TCE concentrations since around 2016, likely due to displacement from increased recharge at the Ely Basins. Overall, the CSM concluded that natural attenuation is occurring and has maintained a stable groundwater plume.

REMEDIAL ACTION

Groundwater

The 2003 Feasibility Study and 2006 draft RAP identified two groundwater remediation alternatives:

1. Extraction and treatment of groundwater for areas that have VOC concentrations approximately ten times the MCL (>50 µg/l).
2. Monitored natural attenuation of groundwater for areas that have VOC concentrations less than ten times the MCL.

¹⁴ Geosyntec. (2005). *First Five-Year Review Report Shallow Soil Remedy*. Prepared for GE Engine Services Test Cell Facility, City of Ontario, San Bernardino County, California. July 15, 2005.

¹⁵ Geosyntec. (2008). *Second Five-Year Review Report, GE Engine Services Test Cell Facility, 2264 Avion Place Ontario, California*. Prepared for GE Engine Services. October 27, 2008.

¹⁶ Email correspondence with Mr. Alan Kouch at the Regional Board on September 19, 2019.

¹⁷ Wood Environmental & Infrastructure Solutions, Inc. (2019). *Conceptual Site Model Former General Electric Engine Services Test Cell Facility*. Prepared for General Electric Company. November 5, 2019.

Following the submittal of the draft RAP, GE determined that the plume extending downgradient from the facility with TCE concentrations above 50 µg/l had decreased in size from about 4,000 feet to about 2,600 feet. Fate and transport modeling indicated that either natural attenuation or a pump-and-treat alternative would decrease the TCE in the plume to concentrations equal to or less than the MCL within the same time frame of 50 years. In 2008, GE met with the Regional Board to discuss the status of the plume and to reevaluate the RAP to consider monitored natural attenuation as the primary remedial action. Based on this discussion, GE agreed to install additional monitoring well clusters between the former GE facility and well cluster OW-16, located in the center of the plume.¹⁸ This well was selected because, at the time, it had the highest historical offsite TCE concentrations in the intermediate and deep intervals of the aquifer. Pursuant to this agreement, two offsite well clusters (OW-17 and OW-18) and one onsite well cluster (MW-8) were installed in August and September 2009. The 2006 draft RAP was withdrawn in February 2010, and since then, GE and the Regional Board have continued to meet to evaluate monitored natural attenuation as the remedial action for the Test Cell Facility.

SOIL

In 1996, pursuant to the 1988 Consent Order, GE began operating the VETS to remove VOCs in the soil onsite and to prevent the soil contaminants from entering groundwater. The treatment system operated from 1996 to 2005, with verification monitoring from 2004 to 2007. During this time, GE was required to submit a review and reevaluation of the remedial actions every five years. The *Second Five-Year Review Report* was submitted to the DTSC in October 2008 and concluded that the soil remediation program had significantly reduced VOC concentrations in soil to levels that are no longer harmful to human health or groundwater quality;¹⁹ it also indicated that there was no significant VOC rebound after treatment ceased in 2005. The report recommended that soil remediation be deemed complete, and that the DTSC grant final closure on soil remediation. The DTSC granted final closure in 2009 with the condition that institutional controls to limit the site to commercial/industrial use were implemented.

MONITORING AND REPORTING PROGRAM

The objectives of the monitoring program are to evaluate the extent and magnitude of the plume emanating from the Test Cell Facility and to support the ongoing evaluation of monitored natural attenuation as a remedial action. Groundwater monitoring is performed quarterly and consists of measuring groundwater levels and collecting groundwater samples at 35 onsite and offsite monitoring wells and piezometers. This includes 35 onsite and offsite monitoring wells and four piezometers located adjacent to the Ely Basins. Exhibit 1 shows the locations of all monitoring sites. Quarterly groundwater quality samples are analyzed for VOCs and reports summarizing the results and conclusions of the monitoring are published each quarter. These reports and all data that have been collected by GE since 2005 are posted on the State Water Resources Control Board GeoTracker website.²⁰

Annual soil sampling and monitoring ceased following the approval of the request for closure of the VETS in 2009. Since then, soil-vapor has been sampled once, in 2014, per request of the Regional Board.

¹⁸ Geosyntec Consultants. (2009). *Monitoring Well Installation Work Plan, GE Engines Services Test Cell Facility*. Prepared for GE Engine Services Test Cell Facility. July 2, 2009.

¹⁹ Geosyntec Consultants. (2008). *Second Five-Year Review Report, Ge Engine Services Test Cell Facility*. Prepared for GE Engine Services Test Cell Facility. October 27, 2008.

²⁰ https://geotracker.waterboards.ca.gov/profile_report?global_id=SL208133868

RECENT ACTIVITY

The most recently submitted monitoring report for the GE Test Cell facility is the *Second Quarter 2022 Groundwater Monitoring Report*. Groundwater quality samples and groundwater-level measurements were collected at 35 monitoring wells and four piezometers. The monitoring event was conducted in May 2022, and the report documenting the sampling event and results was submitted to the Regional Board in July 2022.² The following summarizes some of the key results and conclusions contained in the report:

- Groundwater sampling indicated the presence of a detectable concentration of 17 VOCs, with TCE having the highest concentrations in most wells.
- TCE concentrations for 21 of the 35 wells sampled were greater than the MCL. Seven wells were non-detect for TCE.
- Overall, detected TCE concentrations at wells onsite and adjacent to the former GE Test Cell Facility remain relatively low, with a maximum TCE concentration of 26 µg/l at well MW-8s.
- The highest TCE concentrations in groundwater are detected approximately 3,000 feet downgradient of the former GE Test Cell Facility boundary, as confirmed in well OW-16i with a concentration of 1,900 µg/l.
- The most downgradient monitoring well (OW-11) has had TCE concentrations below the MCL since groundwater monitoring began.
- Groundwater elevations are generally within historical ranges. Higher elevations were observed closer to the Ely Basins, indicating recharge was likely occurring at the Ely Basins at the time of water level monitoring and sample collection.

GE will continue to monitor groundwater quality pursuant to the Regional Board Clean-Up Status of *Open – Verification Monitoring*.

In October 2021, GE completed on-site SVE well sampling to evaluate if VOC concentrations in soil vapor have rebounded and whether the historical SVE systems had sufficiently removed VOCs. This work was conducted in accordance with the *Work Plan for On-Site Soil Vapor and Groundwater Investigation* which has partially approved by the Regional Board on October 1, 2021.²¹ The SVE well sampling occurred from October 4 through 11, 2021 and the results were submitted to the Regional Board in January 2022.²² The data will be presented in a technical report once the investigation portion of the work plan is approved and implemented.

In response to coordination and requests from the Regional Board, GE submitted *Work Plans for Off-Site Groundwater Investigations and Plume Migration Control Near the Former General Electric Engine Services Test Cell Facility* to the Regional Board in April 2022 (2022 Work Plans).²³ The 2022 Work Plans is a master work plan with three separate work plans to address specific request from the Regional Board on

²¹ Wood Environmental & Infrastructure Solutions, Inc. (2021). *Work Plan for On-Site Soil Vapor and Groundwater Investigation*. July 29, 2021.

²² Wood Environmental & Infrastructure Solutions, Inc. (2022). *Data Transmittal for On-Site Soil Vapor Well Sampling*. January 24, 2022.

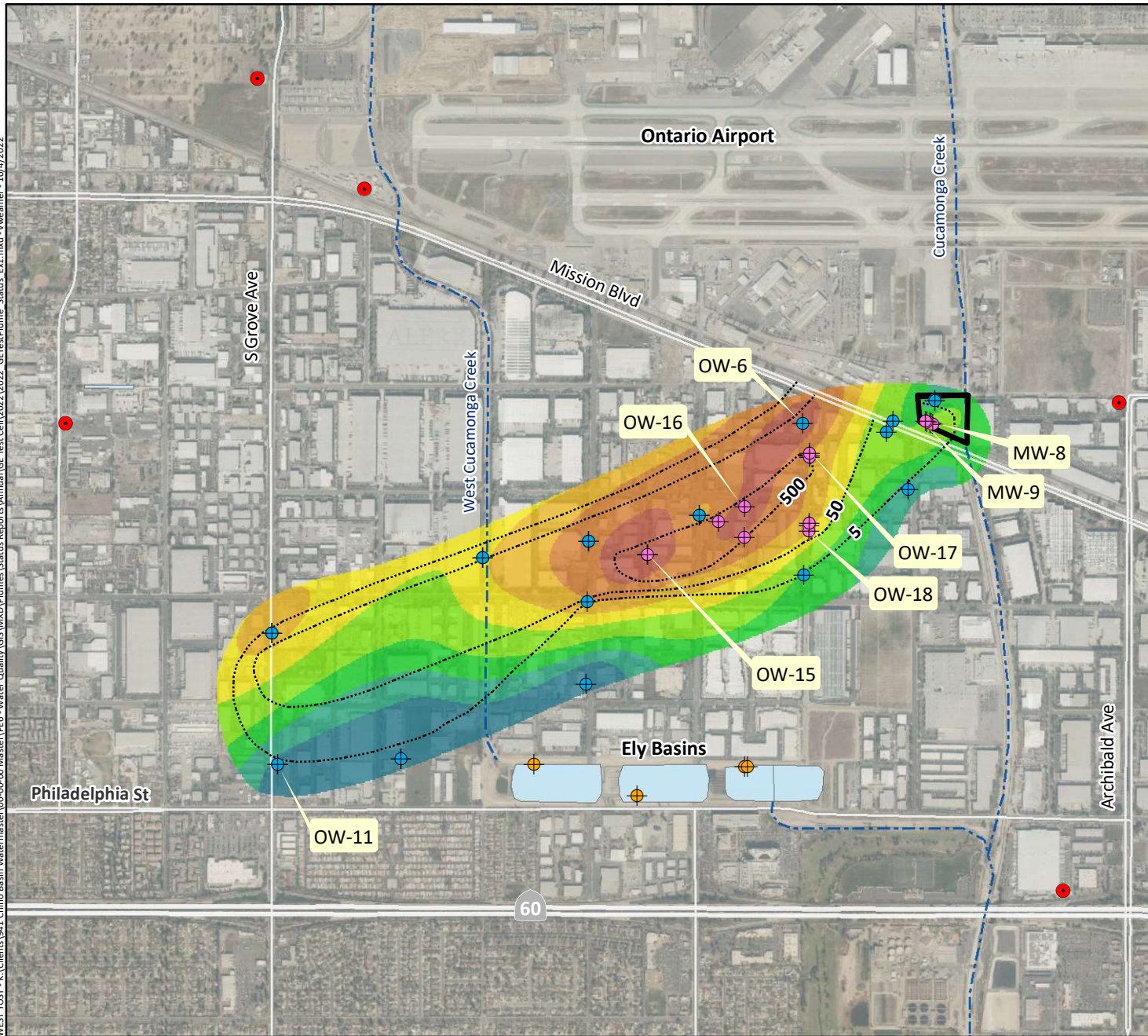
²³ Wood Environmental & Infrastructure Solutions, Inc. (2022). *Work Plans for Off-Site Groundwater Investigations and Plume Migration Control Near the Former General Electric Engine Services Test Cell Facility*. April 14, 2022.

investigation of groundwater plume extent and control of migration, and other potential plume sources. The three work plans include:

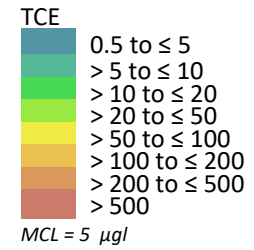
- *Work Plan for Assessment of Off-Site Groundwater Plume Extent.* This work plan is to investigate and delineate the vertical and lateral extent of the plume on either side of the Ely Basins and at the plume front.
- *Work Plan for Plume Migration Control.* This work plan for the feasibility, design, and installation of plume migration control system in the relatively higher concentration core of the plume.
- *Work Plan for Assessment Upgradient from Well OW-6.* This work plan is to investigation west and northwest of the site for potential contributing sources.

Additionally, GE plans to submit an updated conceptual site model for the plume, plume sources, and related pathways following the implementation of the investigation work plans and evaluation of the results.

WEST_YOST - K:\Clients\9411_Chino Basin Watermaster\00-00-00_Maestro\PE6 - Water Quality\GIS\WQD\Plumes\Status Reports\Annual\GE Test Cell\2022\2022_GETestPlume_Status_Ext.mxd - vvwamer - 10/4/2022



Maximum Concentration (µg/L)
July 2015 - June 2020



(Delineated by Watermaster in the 2020 State of the Basin Report)

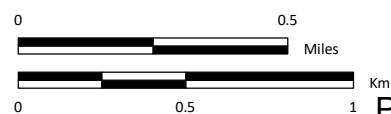
- Contours of TCE Concentration (µg/l) in the shallow zone delineated by Wood Consultants in the 2022 Quarter 2 Groundwater Monitoring Report
- Former GE Test Cell Property Boundary

- General Electric Active Monitoring Wells*
 - Single Casing
 - Multi-Depth Cluster
 - Piezometers
 - Active/Inactive Potable Municipal Water Supply Wells
 - Streams & Flood Control Channels

* Wells are labeled by well name if mentioned in the report



Prepared by:



Prepared for:

Chino Basin Watermaster
Annual Plume Report



General Electric (GE) Test Cell
TCE Plume

Exhibit 1

Annual Plume Status Report

Former Kaiser Steel Mill Plume and CCG Ontario Monitoring and Remediation October 2022

CONTAMINANTS

From 1983 to 1993, the primary contaminants of concern (COCs) for the Former Kaiser Steel Mill site were total dissolved solids (TDS) and total organic carbon (TOC). In 2008, additional investigations commenced to identify other COCs. Currently, the COCs associated with the site include hexavalent chromium, carbon tetrachloride, and chloroform. The maximum concentrations of these COCs detected in groundwater samples collected from the Former Kaiser Steel Mill site from July 2017 through June 2022 compared to the maximum contaminant levels (MCLs) are shown in Table 1 below.

Contaminant	MCL, µg/l	Max Concentration, µg/l	Sample Date	Well
Hexavalent Chromium	50 ^(a)	175	February, 2022	MW-14S
Carbon Tetrachloride	0.5	6.2	August, 2019	MW-25
Chloroform	80	12.6	August, 2021	SW-3

Notes:
µg/l = micrograms per liter
(a) Currently, there is no MCL for hexavalent chromium. There was a California MCL of 10 µg/l for hexavalent chromium that was invalidated in 2016. The MCL for total chromium of 50 µg/l is currently used to regulate hexavalent chromium. The State Water Resources Control Board Division of Drinking Water is in the process of developing a new MCL for hexavalent chromium.

TDS and TOC are no longer considered COCs associated with Former Kaiser Steel Mill site.

LOCATION

The Former Kaiser Steel Mill site is a 1,200-acre parcel in an unincorporated area of the San Bernardino County between the Cities of Fontana and Ontario. The site is bounded by Whittram Avenue to the north, Interstate 10 to the south, and Etiwanda and Cherry Avenues to the west and east, respectively. Exhibit 1 shows the location of the Former Kaiser Steel Mill site. The last delineation of the Kaiser TDS/TOC plume extent was completed in 2008 by the Chino Basin Watermaster (Watermaster), and at that time, the

plume was approximately 7,000 feet wide and 18,500 feet long, extending southwest from the site (see Exhibit 1).¹ No plume delineations for other COCs have been prepared.

SITE HISTORY

The Kaiser Steel Corporation operated the Kaiser Steel Mill from 1942 to 1983, and during peak production, the facility was the largest steel producer in the western United States. From 1942 through 1972, solid and liquid wastes produced from manufacturing processes were disposed of in waste pits and unlined surface impoundments for percolation and evaporation throughout the site. In the early 1970s, the surface impoundments were lined to eliminate percolation to groundwater. In 1987, the Kaiser Steel Corporation filed for bankruptcy and reorganized into Kaiser Resources, Inc., which became Kaiser Ventures, Inc. in 1995.

After the Kaiser Steel Corporation ceased steel operations in 1983, portions of the property were divided and leased or sold to the following organizations:

- Chemwest Industrial, Inc., a chemical manufacturing company, leased land in the southwest portion of the property (East Slag Pile Area in Exhibit 1) but no longer operates onsite.
- California Steel Industries purchased and continues to operate 458 acres to manufacture rolled steel.
- The Auto Club Speedway (formerly California Speedway) was constructed by the Penske Corporation on 500 acres in the northern corner of the site in 1995.
- CCG Ontario, LLC (CCG)² purchased 592 acres along the western and southern portions of the property in 2000 and inherited responsibility for site contamination, remediation, and monitoring from Kaiser Ventures, Inc. (see Exhibit 1 for the property location).

REGULATORY ORDERS

There have been several regulatory orders issued to various tenants of the Former Kaiser Steel Mill site for the investigation and remediation of soil and groundwater contamination:

- Regional Water Quality Control Board Santa Ana Region (Regional Board) Cleanup and Abatement Order (CAO) No. 87-121 (August 1987)—Required Kaiser Steel Corporation to initiate a Phase IV groundwater investigation and implement a remediation action alternative for groundwater contamination.
- California Department of Health Services (now Department of Toxic Substances Control (DTSC)) Consent Order with the Kaiser Steel Corporation (August 1988)—Required the Kaiser Steel Corporation to investigate any release of contamination to air, soil, surface water, and groundwater, and to ensure appropriate remedial measures were taken.
- Regional Board CAO No. 91-40 (March 1991)—Required a feasibility study for a salt-offset remediation alternative for groundwater contamination.

¹ Wildermuth Environmental, Inc. (2008). *Chino Basin Management Zone 3 Monitoring Program Final Report*. Prepared for Chino Basin Watermaster and Inland Empire Utilities Agency. December 2008.

² CCG Ontario is a subsidiary of Prologis, a real-estate and supply chain logistics company.

- California Department of Health Services (now DTSC) Consent Order with California Steel Industries, Inc. (CSI) (August 1995)—Required CSI to conduct a Site Investigation, perform health risk assessment at the CSI property, and develop and implement an action plan to remediate contaminations on site.
- DTSC Imminent and Substantial Endangerment Determination Consent Order with CCG (August 2000)—Transferred responsibility of investigation and remedial activities associated with the 592 acres purchased by CCG and the sale of the Coal Tar Pits Parcel from Kaiser Ventures, Inc. to CCG.

REGULATORY AND MONITORING HISTORY

In July 1983, a phased investigation of potential groundwater contamination, resulting from the disposal of high-salinity wastewater to unlined ponds during its early years of operation, was performed at the Former Kaiser Steel Mill site. The Phase I and II investigations were completed in December 1983 and identified 28 waste sites and four likely point-sources that contributed to TDS and TOC groundwater contamination beneath the facility.³ Groundwater samples were collected at existing onsite and offsite wells to determine the preliminary extent of groundwater contamination and to assess groundwater quality downgradient from the site. The Phase III investigation, completed in March 1986, resulted in the construction of monitoring wells at six additional locations (five single-nested and one quadruple-nested wells).⁴ Based on these investigations, three separate TDS plumes were identified: one located onsite, extending to a depth of 770 feet below ground surface (ft-bgs), and two that migrated offsite. Additionally, one TOC plume was identified onsite extending to a depth of approximately 100 ft-bgs. The Phase III investigation determined that the TDS plumes were moving downgradient at a rate of 100 to 300 feet per year with the potential to impact downgradient municipal production wells.

In 1987, the Regional Board issued CAO No. 87-121 to the Kaiser Steel Corporation in response to the findings of the phased investigations, which required a Phase IV groundwater investigation to further characterize the plume's extent and evaluate remediation strategies, such as groundwater extraction and treatment.⁵

On August 22, 1988, a Consent Order was signed between the Kaiser Steel Corporation and the California Department of Health Services, Toxic Substances Control Division (now known as the DTSC) to ensure that any release or threatened release of contamination to the air, soil, surface water, or groundwater at the site was thoroughly investigated, and that appropriate remedial actions were taken.⁶ Two preliminary assessments/site investigations were completed in August 1988 and January 1989. The results of these investigations were published in the *Resource Conservation and Recovery Act (RCRA) Facility Assessment Report*, which identified twenty areas for remedial investigation.⁷ The Phase I and II remedial

³ James M. Montgomery and Associates. (1983). *Final Report, Kaiser Steel Corporation Groundwater Evaluations*. December 1983.

⁴ James M. Montgomery and Associates. (1986). *Kaiser Steel Corporation Phase III Groundwater Investigation*. Prepared for Kaiser Steel Corporation. March 1986.

⁵ Regional Board. (1987). *Cleanup and Abatement Order No. 87-121 for Kaiser Steel Corporation Fontana, San Bernardino County*. August 26, 1987.

⁶ DTSC Docket No. HAS 87/88-032CO. Consent Order (Health and Safety code sections 205,25355.1(a)(1)) August 22, 1988.

⁷ JMM. (1989). *RCRA Facility Assessment Report*. Prepared for Kaiser Steel Resources, Inc. January 1989.

investigations were completed in April and October of 1990, respectively.⁸ The results of these investigations concluded that three areas of the Former Kaiser Steel Mill site required remediation and further investigation: the tar pits, the byproducts plant area, and the east slag pile. The phase II remedial investigation also found that the cooling tower sludge bed required minor material removal. Due to the limited remediation required, it was recommended that the cooling tower sludge bed be included in the remedial action plan for the east slag pile. The Phase II remedial investigation also concluded that material from the furnace dust/mill scale piles would require removal. Ultimately this material was recycled into the cement industry and didn't require further remediation. For each of the three areas, individual feasibility studies and remedial action plans were prepared and remediation for all three areas occurred between 1995 and 1999.

In 1990, Kaiser Resources, Inc. (formerly Kaiser Steel Corporation) initiated plans for a 'salt-offset' as an alternative to groundwater extraction and treatment of the TDS and TOC plumes. In March 1991, the Regional Board rescinded CAO No. 87-121 and issued CAO No. 91-40, which allowed Kaiser Resources, Inc. to complete a feasibility study for a salt-offset program. The *Phase IV Groundwater Remediation Feasibility Study Draft Report* was published in 1991; it analyzed a salt-offset alternative and nine other groundwater remediation alternatives.⁹ In 1993, CAO No. 91-40 was rescinded when Kaiser Resources, Inc. and the Regional Board entered into a settlement agreement (known as the Salt Offset Agreement). Under the Salt Offset Agreement, Kaiser Resources, Inc. would contribute financial resources and dedicate its Chino Basin water rights to support the construction and operation of the Chino Basin Desalters in exchange for release from any future liability for TDS and TOC contamination. Kaiser Resources, Inc. made a one-time contribution of \$1.5 million and 25,000 acre-feet of its water rights established under the Chino Basin Judgement.

Between 1986 and 1994, an interim groundwater-quality monitoring program was implemented to further characterize the extent of the TDS and TOC groundwater contamination. The monitoring program consisted of a sampling a network of 30 onsite and offsite monitoring and production wells, including newly constructed monitoring wells KOSF-1 and Kaiser-MP2. The maximum TDS and TOC concentrations detected in groundwater samples during this time were 1,600 milligrams per liter (mg/l) and 70 mg/l, respectively.

In 1995, the DTSC issued the Consent Order for CSI to develop and implement an Expedited Remedial Action Plan (ERAP) on its property that was purchased from the Former Kaiser Steel Mill Site.¹⁰ Pursuant to the ERAP, a site investigation was performed at 28 areas on the CSI property which identified 31 Areas of Concern (AOCs). In 2004 and 2013, carcinogen risk assessments of onsite soil indicated that 26 AOCs do not require further remediation other than restrictions that land use can only be industrial uses. The selected mitigation measures for the remaining AOCs included the installation of a surface soil cover system (cap) and maintaining an existing surface cap.¹¹ Contaminant fate and transport analyses conducted as part of the site investigation indicated that there are no risks to the underlying groundwater at these areas. Annual cap

⁸ https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60001356

⁹ Mark J. Wildermuth. (1991). *Phase IV Groundwater Remediation Feasibility Draft Report*. Prepared for Kaiser Steel Resources, Inc. November 1991.

¹⁰ DTSC No. HAS 95/96-068 Expedited Remedial Action Voluntary Enforceable Agreement (Health and Safety Code Section 25398.2b). August 8, 1995.

¹¹ DTSC (2015). *Approval of the Final Remedial Design and Implementation Plan for Area of Concern (AOC) 9 and AOC 22, California Steel Industries, Inc., Fontana, California*. September 15, 2015.

inspections and five-year reviews are ongoing with supplemental characterization and remedial actions conducted intermittently.

In 2000, CCG purchased 592 acres of the Former Kaiser Steel Mill site and entered into a Consent Order¹² with the DTSC, transferring responsibility for the remediation of site-related contamination from Kaiser Ventures, Inc. (formerly Kaiser Steel Corporation and Kaiser Resources Inc.) to CCG. The 2000 Consent Order also required CCG to perform groundwater investigations and, if necessary, develop remediation alternatives for COCs other than TDS and TOC.

REMEDIAL ACTION

As previously noted, remediation activities associated with the TDS and TOC plumes ended with the adoption of the 1993 Salt Offset Agreement.

In 1995 the Consent Order between the DTSC and CSI required remediation, which ultimately included the installation of a surface soil cover system (cap) and maintenance an existing surface cap.¹³ No remedial action was required for groundwater.

The 1988 Consent Order between the DTSC and Kaiser Ventures, Inc. required remediation and further investigation of several areas. Following initial investigations, remedial action plans were prepared for each of the main areas identified for remediation. Between 1995 and 1999, waste was removed from several areas, caps were constructed, and further investigations into some areas found that those areas did not require additional remedial work.

The 2000 Consent Order between the DTSC and CCG, who had acquired portions of the property from Kaiser Ventures, Inc. overrode the 1988 Consent Order and divided the site into four ‘Operable Units’ (OUs) (see Exhibit 1 for OU boundaries) and required the remediation of each OU. The following describes the Remedial Action Plans (RAPs) for OU-1 through OU-4:

- **OU-1 – Tar Pits.** The RAP included an in-situ solidification of the tar and surrounding soil and the construction of cover system (cap) over the tar pits parcel.¹⁴ The DTSC approved the final amended RAP in 2001.¹⁵
- **OU-2 – Auto Club Speedway/By-Products Area.** The RAP included the removal and treatment of contaminated sludge waste, construction of a two-foot protective soil layer

¹³ DTSC (2015). *Approval of the Final Remedial Design and Implementation Plan for Area of Concern (AOC) 9 and AOC 22, California Steel Industries, Inc., Fontana, California.* September 15, 2015.

¹³ DTSC (2015). *Approval of the Final Remedial Design and Implementation Plan for Area of Concern (AOC) 9 and AOC 22, California Steel Industries, Inc., Fontana, California.* September 15, 2015.

¹⁴ Arcadis Geraghty & Miller, Inc. (2001). *Second Amendment to the Remedial Action Plan – Operable Unit No. 1 Tar Pits Parcel, Former Kaiser Steel Corporation, Fontana, California.* Prepared for Kaiser Ventures. December 10, 2001.

¹⁵ DTSC. (2001). *Letter from Thomas M. Cota – Final Second Amendment to the Remedial Action Plan for the Kaiser Steel Site, Operable Unit Number 1, Tar Pits Area.* December 20, 2001.

- and a 13-acre cap over the protective soil layer, and groundwater monitoring.¹⁶ The DTSC approved the final RAP on May 1, 1995.¹⁷
- **OU-3 – East Slag Pile Landfill Area (ESPLA).** The RAP included the construction of a four-foot thick monolithic soil cover, a landfill gas collection and control system, landfill gas monitoring probes, pavement on the upper surface of east slag pile, a surface water drainage system, groundwater monitoring, and long-term operations and maintenance of at least 30 years.¹⁸ The DTSC approved the final RAP on October 31, 2007.¹⁹
 - **OU-4 – Chemwest Upper Ponds/Consolidated Waste Cell/Aboveground Storage Tanks/Chrome Ponds and Adjacent Areas (CCAC).** The RAP included the construction of a cap over the CCAC, groundwater monitoring, and long-term operations and maintenance. The DTSC approved the final RAP on February 13, 2009.²⁰

The above remedial actions specified for OU-1 through OU-4 have been implemented. Site maintenance, inspection, and monitoring reports on the implemented remedial measures at the OUs are published quarterly, semi-annually, and annually to ensure the completed remedies are operating properly.

In 2008, an additional operable unit (OU-5; not a geographical area) was established to prescribe site-wide groundwater monitoring in accordance with the 2000 Consent Order between the DTSC and CCG. The 2008 *Groundwater Remedial Investigation Work Plan* (2008 Work Plan) was prepared to address site-wide data gaps in characterizing groundwater contamination other than TDS and TOC and to develop a long-term, site-wide monitoring program.²¹ The 2008 Work Plan was approved by the DTSC on November 3, 2008 and resulted in the creation of the Site-Wide Groundwater Monitoring Program. In 2009, groundwater monitoring wells were installed at 24 locations over a five-month period as part of the Site-Wide Groundwater Monitoring Program. Eight quarterly groundwater sampling events were performed from 2009 to 2011. Data collected from the sampling efforts were used to perform a health risk assessment by comparing contaminant concentrations detected in the offsite groundwater monitoring wells with Environmental Protection Agency regional screening levels (RSLs). Hexavalent chromium, carbon tetrachloride, and chloroform were detected at concentrations above the risk-based screening concentrations and were therefore determined to be site-wide constituents of concern, warranting continued monitoring.

On September 1, 2016, CCG completed the *Final Groundwater Remedial Investigation Report/Feasibility Study and Remedial Action Plan*²² (2016 Final RI/FS/RAP), which included the results of the Site-Wide

¹⁶ Iris Environmental. (2014). *Third Five-Year Review Report Auto Club Speedway Operable Unit No. 2, By-Products Area Former Kaiser Steel Mill Facility San Bernardino County, California*. Prepared for CCG-Ontario LLC. June 2014

¹⁷ DTSC. (1995). *Letter – Remedial Action Plan for Kaiser Resources, Inc. Operable Unit No. 2 is Approved*. May 1, 1995.

¹⁸ Shaw Environmental, Inc. (2007). *Remedial Action Plan – East Slag Pile Landfill, Former Kaiser Steel Mill Site, Fontana, California*. Prepared for CCG Ontario, LLC. August 2007.

¹⁹ DTSC. (2007). *Letter from Rebecca Chou – Approval of the Final Remedial Action Plan for the East Slag Pile Landfill (ESPL) Area, Former Kaiser Steel Mill, Fontana, California*. October 31, 2007.

²⁰ Shaw Environmental, Inc. (2009). *Final Remedial Action Plan OU-4*. Prepared for CCG Ontario LLC. January 2009.

²¹ Shaw Environmental, Inc. (2008). *Groundwater Remedial Investigation Work Plan; Former Kaiser Steel Mill*. Prepared for CCG Ontario LLC. October 2008.

²² Iris Environmental, Inc. (2016). *Final Groundwater Remedial Investigation Report/Feasibility Study and Remedial Action Plan*. Prepared for CCG Ontario, LLC. September 2016.

Groundwater Monitoring Program from 2009 through 2011 and selected continued annual groundwater monitoring as the RAP for OU-5. In September 2016, DTSC approved the RAP and requested CCG to submit a Remedial Design Implementation Plan to implement the approved RAP monitoring for OU-5.²³ CCG is working with DTSC to complete the Remedial Design Implementation Plan in 2022.²⁴ As of September 2022, it has not been submitted.

MONITORING AND REPORTING

Current groundwater monitoring activities are performed pursuant to the long-term²⁵ operations and maintenance plans for OU-2,²⁶ OU-3,²⁷ and OU-4.²⁸ Exhibit 1 shows the locations of the current well sites monitored for OU-2 through OU-4.

Table 2 below summarizes the number of monitoring wells, sampling frequency, and duration of sampling for each monitored OU.

Operable Unit	No. of Wells	Sampling Frequency (Duration)
OU-2	5	Quarterly (2009-2014); Semi-annual (2015-present)
OU-3	9	Quarterly (2009-2014); Semi-annual (2015-present)
OU-4	11	Quarterly (2009-present)

Note:
There are a total of 37 monitoring wells in OU-2 through OU-5. Some wells were specifically installed outside OU boundaries, and other wells were installed inside multiple OU boundaries; as a result, multiple wells are sampled as part of more than one OU monitoring program.

Groundwater monitoring reports for OU-2, OU-3, and OU-4 are published on a quarterly or semi-annual basis. Site-Wide Five-Year Review Reports are prepared and submitted to the DTSC to determine if the implemented remedial actions remain protective of human health and the environment. CCG is required to prepare these reports in accordance with the 2000 Consent Order. The first *Site-Wide Five-Year Review Report* was submitted to the DTSC on April 1, 2016.²⁹ The report concluded that the remedial actions for all OUs were functioning as intended.

²³ DTSC. (2016). *Letter from Eileen Mananian – Approval of the Final Groundwater Remedial Investigation/Feasibility Study and Remedial Action Plan, Former Kaiser Steel Mill, Fontana, California*. September 13, 2016

²⁴ Email correspondence with DTSC on August 31, 2021.

²⁵ Long-term includes at least 30 years of operations and maintenance for each OU.

²⁶ SCS Engineers. (1995). *Operation & Maintenance Agreement – Operable Unit No. 2*. Prepared for Kaiser Resources, Inc. September 1995.

²⁷ Shaw Environmental, Inc. (2010). *Operations and Maintenance Plan – East Slag Pile Landfill Area, Former Kaiser Steel Mill Facility, Fontana, California*. Prepared for CCG Ontario, LLC. June 2010.

²⁸ Shaw Environmental, Inc. (2010). *Operations and Maintenance Plan – Chemwest Upper Ponds/Consolidated Waste Cell, Above-Ground Storage Tanks, Chrome Ponds, and Adjacent Areas, Former Kaiser Steel Mill Facility, Fontana California*. Prepared for CCG Ontario, LLC. June 2010.

²⁹ RPS Iris Environmental. (2016). *Final Site-Wide Five-Year Review Report*. Prepared for CCG Ontario LLC. April 2016.

The Site-Wide Groundwater Monitoring Program for OU-5 will include annual sampling of 20 monitoring wells (11 well sites), and annual reporting to the DTSC. Continued annual groundwater monitoring and reporting for OU-5 was included in the *Sitewide Water Quality Sampling and Analysis Plan* as Appendix M of the approved 2016 Final RI/FS/RAP. As part of the effort to finalize the Remedial Design Implementation Plan for OU-5, CCG sampled all existing OU-5 wells in 2019 to determine the need and the locations of additional wells for incorporation into the Site-Wide Groundwater Monitoring Program. On September 26, 2019, DTSC requested the development and inclusion of a decision tree for sitewide groundwater into the Remedial Design and Implementation Plan (RDIP) to address the potential off-site migration of groundwater contamination. CCG prepared a Decision Tree for Sitewide Groundwater (OU-5), which was approved by DTSC on December 10, 2021.³⁰ Monitoring activities for the OU-5 Site Wide Groundwater Monitoring Program have not initiated as of September 2022.

Watermaster samples eleven monitoring wells annually at four downgradient locations for the Key Well Groundwater Quality Monitoring Program (KWGWQMP) and provides monitoring results to CCG upon request. These key wells include five Former Kaiser Steel Mill site monitoring wells in two locations and six Chino Basin Management Zone 3 (MZ3) monitoring wells in two locations shown in Exhibit 1. Table 3 below summarizes the contaminants with concentrations that exceeded the MCL at one or more monitoring wells in the KWGWQMP over the last five years from July 2017 to June 2022.

Contaminant	MCL	Max Concentration	No. of Wells Exceeded MCL
1,1-Dichloroethene	6 µg/l	18 µg/l	1
Chromium	50 µg/l	510 µg/l	2
Nitrate ^(a)	10 mg/l	14 mg/l	3
Perchlorate	6 µg/l	9.8 µg/l	2
TDS	500 mg/l	770 mg/l	2
Trihalomethanes	80 µg/l	93 µg/l	1

Note:
Not all key wells were sampled in August and September 2021.
mg/l = milligrams per liter
(a) Nitrate as nitrogen

Watermaster will conduct its 2022 annual KWGWQMP groundwater sampling by the end of 2022.

RECENT ACTIVITY

CCG is continuing to work with the DTSC to revise and finalize the Remedial Design Implementation Plan for OU-5. Monitoring activities for the OU-5 will initiate once the Remedial Design Implementation Plan is finalized.

Semi-annual groundwater monitoring events for OU-2 and OU-3, and quarterly groundwater monitoring events for OU-4 continue pursuant to their operations and maintenance plans. For the most recent monitoring event at OU-2 during the first half of 2022, there were no MCL exceedances. At OU-3 there were also no MCL exceedances, although hexavalent chromium was detected at seven wells with a

³⁰ Email correspondence with DTSC on December 10, 2021.

maximum concentration of 7.17 µg/l. Table 4 summarizes the concentrations of COCs for the most recent monitoring event at OU-4 in February 2022.

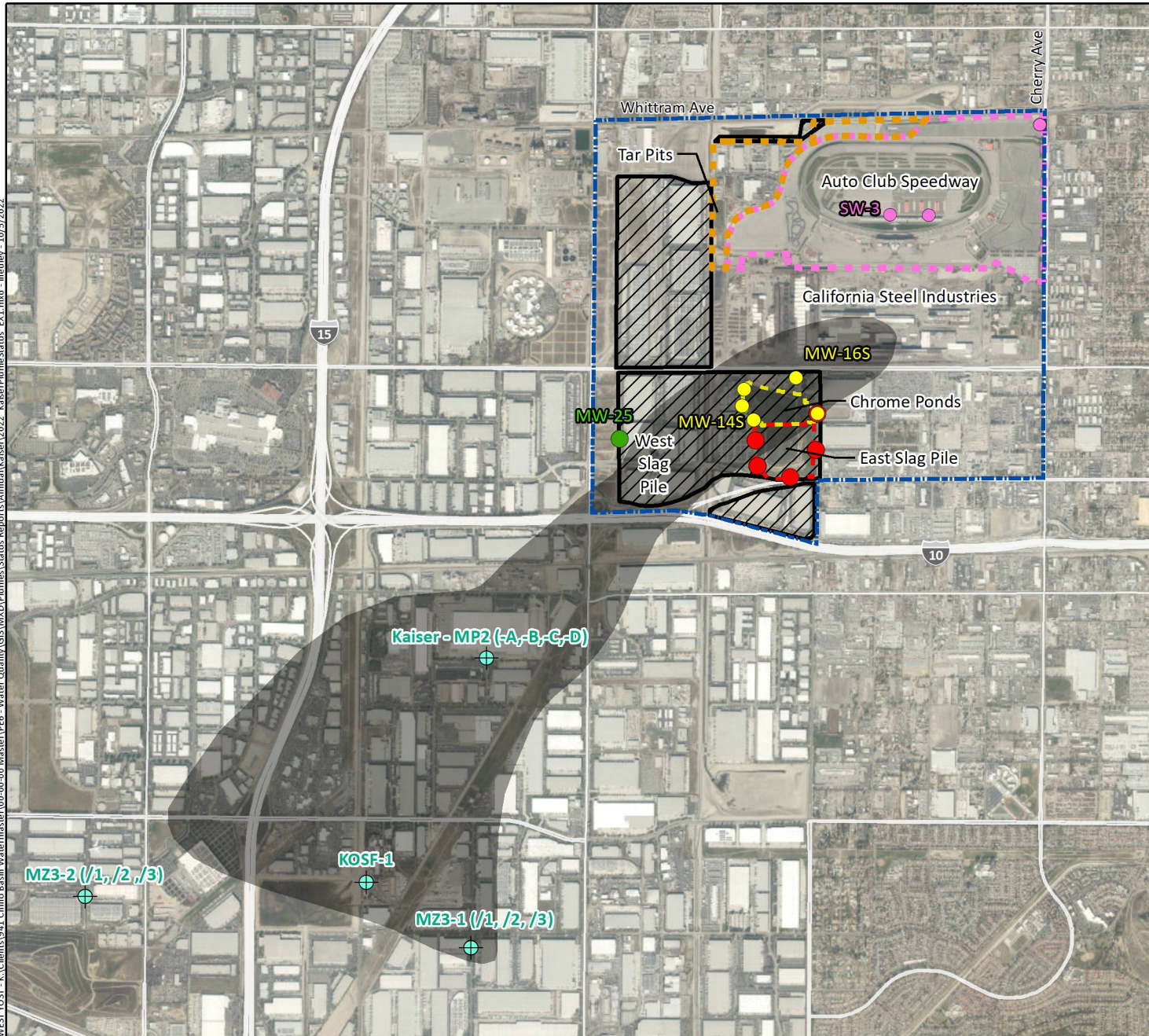
Primary MCL, µg/l	Contaminant	Max Concentration, µg/l	Number of Wells Exceeded MCL
0.5	Carbon Tetrachloride	2.4	1
50	Total Chromium	189	4



In March 2022, CSI submitted a letter to the DTSC in response to a 2019 request from the DTSC to CSI to conduct a groundwater investigation on its property, because of increasing chromium concentration at the CCG well MW-16s which is downgradient of the CSI site.^{31,32} The response letter provided a summary of a historical and statistical evaluation of already available data conducted by CSI for both the CCG and CSI properties. The evaluation concluded that levels observed downgradient of CSI are not indicative of a release from the CSI site and appear related to the well's proximity to the waste management units on the former Kaiser property. It is CSI's opinion that this groundwater investigation is not needed. As of September 2022, there has been no formal response from the DTSC on this response letter.

³¹ DTSC (2019). *Request for Groundwater Investigation Work Plan, California Steel Industries, Inc., Fontana, California (Site Code: 490001)*. December 30, 2019.





³² Terraphase Engineering (2022). *Response to Request for Groundwater Investigation Work Plan, California Steel Industries, Inc., 14000 San Bernardino Avenue, Fontana, California (Site Code: 49001), S044.001.010*. Letter to the DTSC dated March 28, 2022.

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00-00 Master\PE6 - Water Quality\GIS\Map\Plumes\Status Reports\Annual\Kaiser\2022 - KaiserPlumeStatus_EX1.mxd - I:\edley - 10/5/2022





-  Original Property Extent of Former Kaiser Steel Mill
-  Property Extent Purchased by CCG Ontario From Kaiser Ventures Inc. in 2000 (592 acres)


Operable Unit (OU) Boundaries

-  OU-1
-  OU-3
-  OU-2
-  OU-4

CCG Site Monitoring Wells (some locations have multiple wells at various depths)*

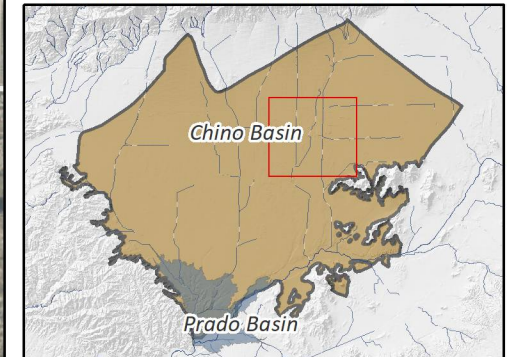
-  OU-2
-  OU-4
-  OU-3
-  Other

 Monitoring Wells Sampled Annually by Watermaster for the KWGWMP (some locations have wells at various depths)

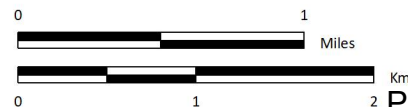
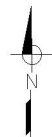
 Extent of the Kaiser TDS plume in 2008 as delineated by Watermaster. The plume extent is no longer delineated.

*Multiple wells are part of more than one OU monitoring program and are shown as overlapping wells.

*Labels indicate wells that are mentioned in the report.



Prepared by:



Prepared for:

Chino Basin Watermaster
Annual Plume Report



Annual Plume Status Report

Milliken Landfill Plume October 2022

CONTAMINANTS

The primary contaminant is trichloroethene (TCE). The California maximum contaminant level (MCL) for TCE is 5 micrograms per liter ($\mu\text{g/l}$). The maximum TCE concentration detected in groundwater samples collected from wells within the plume area during the last five years (July 2017 to June 2022) is 11 $\mu\text{g/l}$ (measured at well M-8B in January 2018). The highest concentration of TCE ever measured on site is 178 $\mu\text{g/l}$ (measured at well M-2B in April 1997). Other contaminants of concern include the following volatile organic compounds (VOCs): tetrachloroethene (PCE), dichlorodifluoromethane, trichlorofluoromethane, 1,1-dichloroethane, and cis-1,2-dichloroethene.

LOCATION

The Milliken Sanitary Landfill (MSL) is located in the City of Ontario along the northwest intersection of Milliken Avenue and Mission Boulevard. The MSL occupies an area of approximately 196 acres, about one mile west of Interstate 15 and 1.2 miles southeast of Ontario International Airport. The MSL is owned and managed by the County of San Bernardino Solid Waste Management Division (County). The MSL TCE plume extends downgradient from the site in a southwestern direction. The Chino Basin Watermaster (Watermaster) last updated its delineation of the extent of the plume in the *2020 State of the Basin Report*.¹ This characterization is based on the five-year maximum TCE concentration measured over the period of July 2015 through June 2020. The extent of the plume is about 2,400 feet wide and 1,700 feet long. Exhibit 1 shows the location and extent of the TCE plume as delineated by Watermaster, compared to the County's most recent delineation of the extent of total VOCs.²

SITE HISTORY AND CLOSURE

The MSL was operated as a Class III Municipal Solid Waste Management Unit, accepting non-hazardous waste from 1958 to March 1999. On June 24, 1991, the Santa Ana Regional Water Quality Control Board

¹ West Yost Associates. (2021). *Chino Basin Optimum Basin Management Program, 2020 State of the Basin Report*. Prepared for Chino Basin Watermaster. June 2021.

² Geo-Logic Associates. (2015). *County of San Bernardino Workplan: Investigation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill*. Prepared for County of San Bernardino Solid Waste Management Division. July 2015.

(Regional Board) issued Cleanup and Abatement Order (CAO) No. 91-92³ to the County and other landfill operators in the Santa Ana region. The order required the correction of drainage and erosion control deficiencies on the landfill property that could potentially cause the discharge of pollutants to groundwater. In 1994, the CAO was rescinded when the landfills achieved compliance, and concurrently, Order No. 94-17⁴ was adopted to amend the Waste Discharge Requirements (WDRs) for all landfills in the Santa Ana Region and combine them under one WDR and Monitoring and Reporting Program (M&RP). In 1996, the Regional Board issued Cease and Desist Order No. 96-41 for the MSL for failure to maintain the drainage and erosion control systems.⁵ In October 1999, the Regional Board approved the *Final Closure and Post Closure Maintenance Plan* for the MSL.⁶ The MSL began its multiphase closure process while still accepting waste. Phase one, termed the “East Mound Closure”, was completed in March 1997, and was a pilot project to aid in the design of a soil cover for the rest of the landfill to prevent soil contaminants from leaching into the groundwater during precipitation events. Phase two, termed the “North and East Slope Closure”, was completed in 1997 and included the construction of a six-foot-thick monolithic cover over 45 acres of the landfill. The final phase of the landfill closure was completed in March 2005 when the remaining 72 acres of the landfill were covered with a four-foot-thick monolithic cover.

Since its closure, the County maintains the MSL drainage and erosion control systems to ensure, to the greatest extent possible, that ponding, infiltration, inundation, erosion, slope failure, and washout are prevented during peak storm flows. The drainage control facilities consist of a network of earthen berms, benches, asphalt down drains and V-channels, concrete channels, reinforced concrete pipes, and sedimentation basins.

Since 2017, the County has leased a portion of the MSL property to PVN Milliken, LLC for a photovoltaic solar facility. The three-megawatt power generating solar facility consists of about 14.5 acres of solar panels located on the top and intermediate decks of the closed landfill. Exhibit 1 shows the footprint of this facility.

REGULATORY ORDERS

- Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (M&RP) Order No. 81-3 and subsequent WDRs and M&RPs Order Nos. 93-57, 94-17, 96-40, 98-89, and R8-2015-0040 (current). Requirements for the design, construction, and maintenance of run-on runoff drainage control systems at the landfill and the supportive monitoring and reporting requirements. Orders Nos. 93-57, 94-17, 96-4, and 98-89 are combined WDRs and M&RPs for all landfills in the Santa Ana Region.

³ Regional Board. (1991). *Cleanup and Abatement Orders for County and City Landfills (CAO) No. 91-92*. Letter from Gerard J. Thibeault to the County of San Bernardino Solid Waste Management Department. June 24, 1991.

⁴ Regional Board. (1994). *Tentative Order No. 94-17, Amending Waste Discharge Requirement for Municipal Solid Waste Landfills Within the Santa Ana Region*. Letter from Kurt V. Berchtold to the County of San Bernardino Solid Waste Management Department. February 9, 1994.

⁵ Regional Board. (1996). *Tentative Cease and Desist Order No. 96-41, for Violations of WDRs (Order No. 81-3, as Amended by Order No. 93-57, Order No. 94-17, and Order No. 96-40) at the Milliken Sanitary Landfill, San Bernardino County*. April 5, 1996.

⁶ Project Navigator, Ltd. (1999). *Final Postclosure Maintenance Plan, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste System Division. September 1999.

- CAO Order No. 91-92. Requirement for the MSL to correct drainage and erosion control deficiencies that existed on the landfill property.
- Cease and Desist Order No. 96-41. Requirement for the MSL to submit a workplan with a schedule for the design and construction of a permanent and effective drainage and erosion control system and for the implementation of the workplan.
- WDRs R8-2002-0033, amended by R8-2002-0085 and R8-2013-0020. General WDRs for the re-injection/percolation of extracted and treated groundwater within the Santa Ana Region. Terminated in May 2019 because the pump-and-treat system is no longer operable.⁷
- Water Code Section 13267 Order No. R8-2020-0033 (For the Determination of the Presence of Per- and Polyfluoroalkyl Substances (PFAS) at Closed Municipal Solid Waste Landfills Within the Santa Ana Region, San Bernardino County). Requirement to prepare workplan, conduct sampling and analysis, and submit sampling results to determine the presence of PFAS.

REGULATORY AND MONITORING HISTORY

On February 26, 1981, the Regional Board adopted WDR No. 81-3⁸ for the discharge of municipal solid wastes to land at the MSL. The WDR addressed the placement, monitoring, and reporting of waste at the landfill; however, it did not require groundwater monitoring. In 1987, groundwater monitoring began with the installation of five monitoring wells as part of the Solid Waste Assessment Test (SWAT) investigation.⁹ The initial monitoring results indicated that there were multiple contaminants in the groundwater underlying and adjacent to the landfill at concentrations significantly above background levels. The contaminants included multiple VOCs: dichlorodifluoromethane, 1,1-dichloroethene, PCE, and TCE.

On May 1989, the Regional Board requested that the County investigate the nature and extent of the VOC contamination. The County submitted a workplan to the Regional Board in July 1989 to implement the Phase I Evaluation Monitoring Program (EMP) and began implementing the approved Phase I EMP in 1992.¹⁰ During the implementation of the Phase I EMP, the County installed ten new monitoring wells: eight wells downgradient from the facility and two wells upgradient from the facility.¹¹ Contaminants including TCE and PCE were detected in the new downgradient monitoring wells. After the implementation of the Phase I EMP, the County installed three additional monitoring wells along the

⁷ Regional Board. (2019). *Termination of Regulatory Coverage Under Waste Discharge Requirements, Order No. R8-2002-0033, Groundwater Cleanup Project for Milliken Sanitary Landfill, San Bernardino County*. Letter from Cindy Li to the County. May 9, 2019.

⁸ Regional Board. (1981). *Order No. 81-3, Waste Discharge Requirements for the County of San Bernardino Solid Waste Management, Milliken Sanitary Landfill*. February 26, 1981.

⁹ IT Corporation. (1989). *Final Report Solid Waste Assessment Test Milliken Sanitary Landfill, Project No. 240275*. Prepared for County of San Bernardino Environmental Public Works Agency Solid Waste Management Department. June 1898.

¹⁰ IT Corporation. (1989). *Quarterly Report: Subchapter 15 Detection Monitoring Program for Cajon, Colton, Midvalley, Milliken, Plunge Creek, San Timoteo, and Yucaipa Landfills*. Prepared for County of San Bernardino Solid Waste Management Division. July 1989.

¹¹ Converse Consultants Inland Empire. (1994). *Groundwater Contamination Evaluation, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste Management Division.

southern boundary of the property, as well as one well upgradient and six wells downgradient of the property to further characterize the lateral and vertical extent of the TCE plume.

On January 1996, the County submitted a workplan for the Phase II EMP to install two additional monitoring wells along the southern boundary of the facility and two additional monitoring wells downgradient. The workplan was approved by the Regional Board in February 1996.¹² Under the direction of the Regional Board, the County completed the Phase II EMP and an Engineering Feasibility Study in 1998.^{13,14} Groundwater flow modeling was also performed to support the selection of an appropriate remediation strategy.¹⁵

The Regional Board approved a remediation alternative that included (1) a pump-and-treat system for onsite contaminated groundwater and (2) monitored natural attenuation for offsite contaminated groundwater. Construction of the Point of Compliance Corrective Action Program (CAP) pump-and-treat system was completed on March 4, 1999 and consisted of 13 groundwater extraction wells located at the downgradient edge of the MSL site. Offsite monitoring for natural attenuation began at four offsite wells in 1998.

In 2000, groundwater levels began to decline monotonically in the vicinity of the MSL and by 2007, the groundwater level dropped below the total depths of all 13 onsite extraction wells and five offsite monitoring wells. In response, the Regional Board requested that the County complete an updated feasibility study to evaluate the effectiveness of the remediation strategy and the extent of the contaminant plume. In March 2013, the County finalized the Updated Engineering Feasibility Study for the MSL (2013 Feasibility Study).¹⁶ The 2013 Feasibility Study evaluated several potential alternative treatments to mitigate the plume. The County concluded that monitored natural attenuation was the appropriate remediation alternative. This revised remediation alternative was approved by the Regional Board on May 15, 2013.

In 2018, the County performed an evaluation of offsite impacts to groundwater at the MSL to the Regional Board in response to a June 17, 2015 letter from the Regional Board.¹⁷ The 2015 letter requested that the evaluation of offsite impacts include the following actions: 1) update the 1998 groundwater-flow model to incorporate the non-operating groundwater pump-and-treat system and use updated monitoring data; 2) collect gas samples from specified landfill gas probes; and 3) prepare a report and evaluate the need for corrective action based on the findings. Based on the results of the updated modeling and monitoring for the offsite evaluation, the County proposed the installation of a downgradient monitoring well (see

¹² Regional Board. (1996). *Milliken Landfill – Addendum to Phase II Workplan, Contaminant Plume Investigation*. Letter from Dixie B. Lass. February 6, 1996.

¹³ Geo-Logic Associates. (1998). *Phase II Evaluation Monitoring Report, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste System Division. May 1998.

¹⁴ Geo-Logic Associates. (1998). *Engineering Feasibility Study, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste System Division. May 1998.

¹⁵ Geo-Logic Associates. (1999). *Groundwater Flow Model, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste System Division. February 1999.

¹⁶ Geo-Logic Associates. (2013). *Updated Engineering Feasibility Study for Corrective Action, Milliken Sanitary Landfill County of San Bernardino, California*. Prepared for the County of San Bernardino Solid Waste System Division. March 2013.

¹⁷ Regional Board. (2015) *Groundwater Impacts Evaluation for Milliken Sanitary Landfill, San Bernardino County*. June 17, 2015

Exhibit 1) and a soil-gas investigation to determine whether soil gas mitigation is necessary. The Regional Board accepted the proposed actions on March 29, 2018.¹⁸ Since then, the County has conducted two pilot studies on a Soil Vapor Extraction (SVE) system, the most recent of which was completed in late-2019.¹⁹

The County and PVN Milliken, LLC submitted a revised Final Post-Closure Maintenance Plan in November 2016 and a land use plan in December 2016 to modify the MSL's end use plan to include the solar plant on the landfill surface.^{20,21} The Regional Board approved the plans in January 2017.²² The revised post-closure maintenance plan provides a basis for plan inspection, maintenance, and monitoring of the MSL during the post-closure maintenance period. The revised land use plan describes PVN Milliken's modification to the landfill, and its responsibility to maintain and monitor the land in a way that does not impact groundwater and surface water quality.

REMEDIAL ACTION

As previously noted, the original remedial action plan that consisted of a pump-and-treat system and monitored natural attenuation had to be revised due to declining water levels. All 13 onsite extraction wells and five of the eight offsite monitoring wells dried up as groundwater elevations declined below well depths, causing the pump-and-treat system to cease operations in 2007. The 2013 Feasibility Study identified monitored natural attenuation, coupled with the existing mitigation measures, as the best remedial alternative of downgradient groundwater impacts and included certain trigger points that would require mitigation measures to be initiated. These trigger points include:

- When the total VOC load²³ in samples from downgradient monitoring well M-8A or M-8B exceeds the model-predicted VOC concentrations for two consecutive quarters, this will trigger improvements to the existing landfill gas extraction system.
- Once improvements to the landfill gas extraction system are implemented and a statistically significant increasing VOC concentration trend is identified in monitoring well M-8A or M-8B over a one-year period, this will trigger a requirement for additional mitigation measures to be implemented.

¹⁸ Regional Board. (2018). *Evaluation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill, San Bernardino County* Global ID: L1000745844. March 29, 2018. Letter from Keith Person on behalf of Cindy Li.

¹⁹ Geo-Logic Associates in Association with Invirotreat Inc. (2020). *Pilot Test No. 2 Results Soil Vapor Extraction System Milliken Sanitary Landfill San Bernardino, California*. February 12, 2020.

²⁰ Project Navigator, Ltd. (2016). *Final Postclosure Maintenance Plan Milliken Sanitary Landfill 36-AA-0054 Ontario, California. Prepared for the County of San Bernardino Department of Public Works – Solid Waste Management Division on behalf of PVN Milliken, LLC*. September 10, 1999. Revised June 2004. Revised 2014. Revised November 2016.

²¹ Project Navigator, Ltd. (2016). *Land Use Plan for the Milliken Sanitary Landfill 36-AA-0054 Ontario, California, County of San Bernardino*. Prepared for the County of San Bernardino Department of Public Works – Solid Waste Management Division on behalf of PVN Milliken, LLC. December 2016.

²² Regional Board. (2017). *Approval of the Revised Final Post Closure Maintenance Plan and Land Use Plan for Milliken Landfill, Ontario, San Bernardino County*. January 19, 2017.

²³ Statistically significant increasing or decreasing trends are determined using Sen's Slope/Mann Kendall trend test.

The trigger points were approved by the Regional Board in 2013.²⁴ If additional remedial action is deemed necessary based on these trigger points, the most appropriate and cost-effective remediation measure will be evaluated at that time. The 2013 Feasibility Study also specified that if VOC concentrations increase to one-half of the model-predicted VOC concentrations in wells at the center of the plume, an additional offsite monitoring well would be necessary near well M-19 to monitor the natural attenuation of the plume in the lower aquifer as the plume moves away from the site.

From October to December 2019 the County conducted a second SVE pilot test (Pilot Test No. 2) to evaluate the feasibility of using the now dry extraction wells for the pump-and-treat system to remove VOCs from the soil vapor in the vadose zone above the water table. The SVE pilot test involved using all the 13 dry groundwater extraction wells installed along the downgradient edge of the MSL (see Exhibit 1) that connect to a 4-inch conveyance header-line routing to a SVE treatment unit. The County submitted a report to the Regional Board on February 12, 2020²⁵ describing the results of the pilot test, which concluded that full-scale operation of an SVE system at the MSL will be an effective means to minimize the potential for VOC impacts to groundwater without negatively impacting the operations of the landfill gas collection system at the site. There has been not activity on implementing this SVE system since 2020.

MONITORING AND REPORTING

The County conducts groundwater, surface water, and soil-pore gas monitoring at the MSL. The monitoring program consists of 26 groundwater monitoring wells, one piezometer, and three surface water monitoring stations. There are also five soil-pore gas monitoring probes, and one landfill gas condensate station for monitoring VOCs in soil and vapor. Groundwater quality and groundwater levels are collected quarterly at the monitoring wells that are not dry. Surface-water quality sampling is conducted quarterly when there is water at the sites. Field soil-gas screening is performed semi-annually during the second and fourth quarters, and a measurement is collected for laboratory analysis when methane is detected at a concentration that is greater than five percent in volume. Landfill gas condensate sampling is conducted annually in the fourth quarter. Extraction wells are also checked quarterly but have been consistently dry. Additionally, the County also submits monthly inspection reports of site maintenance to the Regional Board. These reports and all data that have been collected since 2005 are posted on the State Water Resources Control Board [GeoTracker website](#).²⁶

The groundwater data collected during the quarterly sampling events is statistically analyzed to identify increasing or decreasing trends of VOCs and other constituents of concern. The quarterly groundwater monitoring data are also used to assess the natural attenuation of the offsite extent of the plume. VOC concentrations at monitoring wells M-8B and M-8A (if not dry) are used to determine if there are triggers that would necessitate further corrective actions. These triggers are based on model-predicted concentrations from the 1999 groundwater modeling performed to evaluate the pump-and-treat system.

²⁴ Regional Board. (2013). *Identification of Triggers for Additional Corrective Action System for the Milliken Landfill, San Bernardino County*. Letter dated May 15, 2013.

²⁵ Geo-Logic Associates in Association with Invirotreat Inc. (2020). *Pilot Test No. 2 Results Soil Vapor Extraction System Milliken Sanitary Landfill San Bernardino, California*. February 12, 2020.

²⁶ https://geotracker.waterboards.ca.gov/profile_report?global_id=L10007458441

Exhibit 1 shows the locations of wells M-8A and M-8B. The following table shows the model-predicted VOC concentrations over time:

Table 1. Model Predicted Total VOC Load to Trigger Remedial Action at the MSL					
Year	Total VOC Load at M-8A or M-8B ^(a) , µg/l	Year	Total VOC Load at M-8A or M-8B ^(a) , µg/l	Year	Total VOC Load at M-8A or M-8B ^(a) , µg/l
2013	120	2027	123	2041	50
2014	123	2028	117	2042	45
2015	125	2029	112	2043	40
2016	128	2030	106	2044	35
2017	130	2031	101	2045	30
2018	130	2032	96	2046	25
2019	129	2033	90	2047	20
2020	128	2034	85	2048	18
2021	127	2035	80	2049	16
2022	126	2036	75	2050	14
2023	125	2037	70	2051	13
Year	Total VOC Load at M-8A or M-8B (a), µg/l	Year	Total VOC Load at M-8A or M-8B(a), µg/l	Year	Total VOC Load at M-8A or M-8B (a), µg/l
2024	124	2038	65	2052	12
2025	124	2039	60	2053	11
2026	123	2040	55	2054	10

Notes:
(a) Total VOC load (µg/l) equals the sum of all detected VOC concentrations in a given sample.

In November 2020, the County conducted a one-time monitoring event for per- and polyfluoroalkyl substances (PFAS) pursuant to an Investigative Order by the Regional Board pursuant to California Water Code Section 13267.²⁷ Sampling for PFAS occurred at four monitoring wells (M-5B, M-2D, M-6B, M-15B) and one landfill gas condensate location. The final report was submitted to the Regional Board on December 30, 2020. Perfluoro-n-pentanoic acid (PFPeA) and 6:2 fluorotelomer sulfonate (6:2 FTS) were detected at concentrations above the laboratory reporting limits at wells M-5B, M-6B, and M-15B, and perfluorohexane sulfonate (PFHxS) and perfluorooctanoic acid (PFOS) were detected above the laboratory reporting limits at well M-5B but below the notification level for PFOS of 6.5 µg/l.²⁸ All wells sampled had perfluorooctanoic acid (PFOA) concentrations below the notification level of 5.1 µg.

²⁷ Regional Board. (2020). *Water Code Section 13267 Order No. R8-2020-0033, For the Determination of the Presence of Per- and Polyfluoroalkyl Substances (PFAS) at Closed Municipal Solid Waste Landfills Within the Santa Ana Region, San Bernardino County*. July 21, 2020.

²⁸ Geo-Logic Associates. (2020). *Results for Sampling and Analyses of Per – and Polyfluoroalkyl Substances at Select Santa Ana Region Closed Landfill Facilities*. December 30, 2020.

RECENT ACTIVITY

The County's most recent monitoring events occurred in June of 2022, and the results were reported in the second quarter 2022 monitoring report submitted to the Regional Board in July 2022.²⁹ During the sampling event, groundwater levels were measured at eighteen monitoring wells and ten piezometers, and groundwater-quality samples were collected at six monitoring wells and one piezometer. Seven monitoring wells and all three surface water monitoring stations were dry. No methane was detected in the soil-pore gas screening samples. Exhibit 1 shows the monitoring wells that were sampled during the second quarter of 2022, and the wells that were dry. The following section summarizes the results from the July 2022 quarterly monitoring event:

- Seven wells were dry, and six wells and one piezometer were sampled for water quality.
- The TCE concentrations at most of the active monitoring wells (except for M-8B) were below the MCL.
- Monitoring well M-8A was dry, and the maximum total VOC loads for monitoring well M-8B was 16.67 µg/l, which is below the predicted load threshold of 126 µg/l for 2022.
- There continues to be a significant decreasing trend in the TCE concentration measured in monitoring well M-8B, located at the central and southern portion of the plume.
- No additional corrective actions have been triggered since the current VOC load at M-8B is below the predicted load threshold, and there is a decreasing TCE trend in M-8B. Ongoing source control and routine monitoring and reporting will continue.

²⁹ Geosyntec. (2022). *Second Quarter 2022 Monitoring Report Water Quality Monitoring Program Milliken Sanitary Landfill Ontario, California*. July 21, 2022.

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00-00 Master\PE6 - Water Quality\GIS\MXD\Plumes\Status Reports\Annual\Milliken Landfill\2022\2022 Milliken Plume Status Ex1.mxd - vvwamer - 10/2/2022



Maximum Concentration ($\mu\text{g/L}$)
July 2015 - June 2020

TCE

- 0.5 to \leq 5
- > 5 to \leq 10
- > 10 to \leq 20
- > 20 to \leq 50

MCL = 5 $\mu\text{g/l}$

(Delineated by Watermaster in the 2020 State of the Basin Report)

Contour of Total VOCs ($\mu\text{g/l}$) as delineated by the County in 2015

County of San Bernardino Monitoring Wells*

- Sampled in 2022
- Dry in 2022
- Proposed new well location in 2018. Well has not been constructed yet.
- Surface Water Monitoring Station (Dry)

Extent of Solar Facility

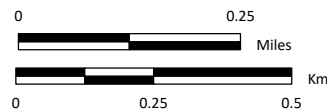
Milliken Sanitary Landfill Boundary

2019 SVE Pilot Test Area Using the 13 Dry Extraction Wells

* Wells are labeled by well name if mentioned in the report



Prepared by:



Prepared for:

Chino Basin Watermaster
Page 161 Annual Plume Report



Milliken Sanitary Landfill
TCE Plume

Exhibit 1

Annual Plume Status Report

Stringfellow Plume October 2022

CONTAMINANTS

The primary contaminants at the Stringfellow site are perchlorate, trichloroethene (TCE), and chloroform. The California maximum contaminant levels (MCL) for perchlorate and TCE are 6 micrograms per liter (µg/l) and 5 µg/l, respectively. Chloroform does not have an MCL but is assessed to a cleanup level of 6 µg/l for the Stringfellow site.¹ The maximum contaminant concentrations detected in groundwater for the recent five years within the various designated zones of the Stringfellow site are shown in Table 1 below.

Table 1. Five-Year Maximum Contaminant Concentrations in Stringfellow by Zone between July 2017 to June 2022			
Contaminant	MCL or Cleanup Level, µg/l	Five-Year Maximum Concentration – July 2017 – June 2022, µg/l	
		Zones 1-3 (Within Pyrite Canyon)	Zone 4 (Downgradient of Pyrite Canyon)
Perchlorate	6	10,000	140
TCE	5	280,000	24
chloroform	6	11,000	15

Additional contaminants at the site include other volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, para-chlorobenzene sulfonic acid, n-nitrosodimethylamine, and various heavy metals. And, the groundwater beneath the former waste evaporation ponds has a pH of <4.

LOCATION

The Stringfellow plume is located in the City of Jurupa Valley in the eastern portion of the Chino Basin in Riverside County. The plume extends south-southwest from Pyrite Canyon in the Jurupa Mountains which is the location of the former Stringfellow hazardous waste facility (Stringfellow site). The plume is geographically divided into five groundwater zones: four in Pyrite Canyon and one downgradient from the canyon, in consideration of various operational and remediation activities. These zones, shown in Exhibit 1, include:

¹ Cleanup levels were established for TCE (5 µg/l and equal to the MCL) and chloroform (6 µg/l) in the Interim Records of Decision 4 by the United States Environmental Protection Agency.

- **Zone 1 (On-site/Upper Mid-Canyon Area)** is located in the northern most part of Pyrite Canyon and includes the original 17-acre disposal facility. It is divided into two areas (Zone 1A and Zone 1B) that are separated by a man-made clay barrier constructed downgradient of the evaporation ponds in 1980 to mitigate subsurface flow. Zone 1A is located upgradient of the clay barrier and includes the former evaporation ponds. Zone 1B extends 600 feet south of the barrier below the evaporation ponds and includes the Pyrite Canyon Treatment Facility.
- **Zone 2 (Mid-Canyon Area)** comprises the central portion of Pyrite Canyon and includes the Pre-Treatment Plant and a line of extraction wells.
- **Zone 3 (Lower Canyon Area)** extends from just south of the extraction wells in Zone 2 to just north of Highway 60 and includes the Lower Canyon Treatment Facility.
- **Zone 4** is the largest zone and extends from Highway 60 to immediately north of the Santa Ana River; it is a residential and light industrial area in the City of Jurupa Valley and includes the Community Well Head Treatment System.

In addition to these four zones, there are two areas defined by the United States Environmental Protection Agency (USEPA) in Pyrite Canyon (Area 1 and Area 2) where the USEPA conducts investigations to characterize potential additional sources of perchlorate that contribute to surface water runoff and groundwater contamination in Zones 1-4. These areas are also shown in Exhibit 1.

Exhibit 1 shows the general extent of the TCE plume originating from the former Stringfellow site with detectable concentrations of TCE greater than or equal to 0.5 µg/l, as delineated by the Chino Basin Watermaster (Watermaster) for the *2020 State of the Basin Report*.² The plume is approximately 2.6 miles long and 0.2 miles wide and extends from Zone 1 to the midpoint of Zone 4 near the Community Wellhead Treatment System.

Exhibit 1 also shows the general extent of the perchlorate plume originating from the Stringfellow site with concentrations greater than or equal to 6 µg/l, as delineated in 2019 for the *2019 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report*.³ The perchlorate plume extends from Zone 1 approximately 4.7 miles south/southwest to Zone 4, all the way to the edge of the Santa Ana River. The width of the perchlorate plume varies between approximately 0.1 and 1 mile. There are also several smaller perchlorate plumes to the east and west of the main plume as shown in Exhibit 1. Investigations in USEPA Areas 1 and 2 have indicated that in addition to perchlorate originating from the Stringfellow site, there are also sources of perchlorate located upstream and lateral to the Stringfellow site that are contributing to the groundwater plume.^{4,5}

The extent of the chloroform plume, which is much smaller than the TCE and perchlorate plumes, is limited to Zones 1 and 2 and is not shown in Exhibit 1.

² West Yost Associates. (2021). *Optimum Basin Management Program - 2020 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2021.

³ Kleinfelder. (2021). *2019 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report, Stringfellow Superfund Site*. Prepared for California Department of Toxic Substances Control. April 1, 2021.

⁴ CH2M. (2017). *Draft Final Remedial Investigation Report EPA Area 1, Stringfellow Superfund Site, Jurupa Valley, California*. Prepared for U.S. Environmental Protection Agency, Region 9. April 2017.

⁵ Ramboll US Corporation. (2020). *EPA Area 2 Remedial Investigation Report, Stringfellow Superfund Site, Jurupa Valley, California*. Prepared for California Environmental Protection Agency, Department of Toxic Substances Control. April 6, 2020.

SITE HISTORY

Stringfellow Quarry Company Inc. operated the Stringfellow site as a Class I Hazardous Waste Disposal Facility from 1956 to 1972 pursuant to the issuance of a land use variance by the Riverside County Planning Commission in 1952. During this time, an estimated 34 million gallons of industrial liquid waste containing spent acids, caustics, solvents, pesticide byproducts, metals, and other organic and inorganic constituents—derived primarily from electroplating, metal finishing, and pesticide manufacturing—were deposited in as many as 20 evaporation ponds (located within Zone 1a on Exhibit 1).⁶ Liquid wastes were also sprayed into the air to reduce the volume of wastes accumulating in the ponds. In 1969, heavy rainfall caused the disposal ponds at the facility to overflow resulting in the discharge of contaminated liquids to Pyrite Creek. In 1978, heavy rains again threatened to cause the ponds to overflow, and the Santa Ana Regional Water Quality Control Board (Regional Board) authorized an 800,000-gallon release from the ponds to prevent a larger uncontrolled release caused by the heavy rains.

Between 1975 and 1980, following closure of the site, approximately 6.5 million gallons of liquid wastes were removed from the facility. Following the removal activities, the USEPA and the United States Coast Guard (USCG) assisted the Regional Board with the initiation of response actions and site investigation studies. In October 1981, the Stringfellow site was placed on the USEPA Interim Priorities List of Hazardous Waste Sites. On December 30, 1982, the Stringfellow site was proposed for the USEPA's final National Priorities List (NPL) as a Superfund site, and on September 8, 1983 it was placed on the final NPL. In 1993 the Department of Toxic Substances Control (DTSC) assumed responsibility for maintenance of the Stringfellow site on behalf of the State of California through a Cooperative Agreement with the USEPA. Since that time, over 45 phases of investigation, feasibility testing, and remedial actions have been performed by various entities at the site. A record of these activities and associated reports can be found on the DTSC EnviroStor website.⁷

REGULATORY ORDERS

From 1983 to 1990, the USEPA adopted four interim Records of Decision (RODs) to guide remediation efforts at the Stringfellow site. The following summarizes the four RODs and major remedial actions set forth therein:

- **ROD 1** (USEPA 1983).⁸ The first ROD directed completion of several initial abatement activities including: fencing the site, erosion control, hauling and disposal of contaminated liquids, and interim source control.
- **ROD 2** (USEPA 1984).⁹ The second ROD included the construction of the Pre-Treatment Plant in the mid-canyon area located within Zone 2.

⁶ U.S. Army Corps of Engineers. (2016). *Fifth Five-Year Review Report for Stringfellow Superfund Site Riverside County, California*. September 2016.

⁷ <https://www.envirostor.dtsc.ca.gov/public/>

⁸ United States Environmental Protection Agency (USEPA). (1983). *EPA Superfund, Record of Decision: Stringfellow Acid Pits Site*. USEPA ID: CAT080012826, OU01, Mira Loma, California. July 1983.

⁹ United States Environmental Protection Agency (USEPA). (1984). *Record of Decision, Stringfellow Acid Pits, Summary of Remedial Alternative Selection*. July 1984.

- **ROD 3** (USEPA 1987).¹⁰ The third ROD included the installation of an upgradient surface water diversion north of the original contamination site within Zone 1A, and the installation of a groundwater barrier system in the lower canyon area located within Zone 3.
- **ROD 4** (USEPA 1990).¹¹ The fourth ROD delineated the site into four geographic zones (Zones 1-4, as described above), and directed the construction of the Community Wellhead Treatment Facility in Zone 4, the dewatering of the of the original disposal area in Zone 1, field testing of soil vapor extraction, and field testing of the reinjection of treated groundwater in the upper canyon area.

A fifth and final ROD (ROD 5), outlining the final remedial action objectives for Zones 1, 2, 3, and 4, is currently being prepared, and should be complete by the end of 2022.

REMEDIAL ACTION

In 1980, prior to the first ROD, the Regional Board adopted an interim abatement program to contain the waste and minimize the risk of further contaminant migration. Several remedial solutions were implemented, including the removal of liquid waste from ponds, partial neutralization and capping of wastes, the construction of a subsurface clay barrier wall downgradient from the pond area, and drainage control features.

Following the completion of remedial measures required by ROD 1 and the issuance of ROD 2, a groundwater extraction and treatment system was developed and has become the primary remedial action implemented at the site. The groundwater extraction and treatment system, which has expanded over time, currently consists of a network of over 70 extraction wells throughout Zones 1-4 and two treatment plants operated by the DTSC on behalf of the State of California: the Pyrite Canyon Treatment Facility and the Community Wellhead Treatment System. The Pre-Treatment Plant and Lower Canyon Treatment Facility are no longer active. Exhibit 1 shows the locations of the four treatment plants; the following is a brief description of each:

- **Pyrite Canyon Treatment Facility.** This plant is located in Zone 1B and treats contaminated groundwater from extraction wells in Zones 1, 2, 3, and 4 (wells CTN-TW1 and CTS-TW1). The Pyrite Canyon Treatment Facility was constructed in 2017 to replace the aging infrastructure of Pre-Treatment Plant and began operating on April 4, 2017. The treatment facility uses granular activated carbon (GAC) to treat for low pH, pesticides, metals, perchlorate, and VOCs. Treated effluent is stored onsite and then released to the Inland Empire Brine Line and the Orange County Sanitation Districts wastewater collection, treatment, and disposal facilities under permit from the Santa Ana Watershed Project Authority. Some of the treated effluent is used for utility water at the treatment facility.
- **Community Wellhead Treatment System.** This plant is located in Zone 4 and treats contaminated groundwater pumped from two wells in Zone 4 for VOCs and perchlorate (Wells CTP-TW1 and CTP-TW2). Treated effluent is discharged to Pyrite Creek under an NPDES permit and can also be used for irrigation by local residents.

¹⁰ United States Environmental Protection Agency (USEPA). (1987). *Record of Decision: Stringfellow Acid Pits, Summary of Remedial Alternative Selection (Early Implementation Action)*. June 1987.

¹¹ United States Environmental Protection Agency (USEPA). (1990). *Record of Decision: Stringfellow Hazardous Waste Site*. September 1990.

- **Pre-Treatment Plant.** This plant is located in Zone 2 and began operating in 1985 pursuant to the second ROD. It formerly treated VOCs in groundwater from extraction wells in Zones 3 and 4 and stored at the Lower Canyon Treatment Facility. The Pre-Treatment Plant was shut down on October 29, 2019 and since then groundwater from the Zone 3 and Zone 4 extraction wells has been redirected to the Pyrite Canyon Treatment Facility for treatment. As of October 2021, the decommission of the Pre-Treatment Plant facility had been placed on hold with no date to resume demolition.
- **Lower Canyon Treatment Facility.** This facility is located in Zone 3 and formerly treated groundwater pumped from extraction wells in Zones 3 and 4 for VOCs. Treated effluent from the Lower Canyon Treatment Facility was piped to and stored at the Pre-Treatment Plant and subsequently released to the Inland Empire Brine Line. Currently, the facility is in a stand-by state. As of October 29, 2019, groundwater extracted from Zones 3 and 4 has been redirected for treatment at the Pyrite Canyon Treatment Facility.

In 2021, the DTSC submitted a report to the USEPA on results of the Pyrite Canyon Groundwater Flow Model, to further assess the effectiveness of groundwater extraction systems at preventing site-related chemicals in groundwater from migrating further down canyon and into Zone 4.¹² The Pyrite Canyon Groundwater Flow Model demonstrates that groundwater flow is towards the center of Pyrite Canyon, consistent with the conceptual model and the observed extent of the perchlorate plume. It also confirmed that existing extraction systems are adequately capturing contaminants, except for areas located to the west of the extraction systems.

The USEPA has initiated groundwater and soil investigations to develop remedial actions for perchlorate for Areas 1 and 2 in Pyrite Canyon, potentially from sources on the west and east sides of Pyrite Canyon. A draft remedial investigation report for Area 1 (completed in 2017) and a remedial investigation report for Area 2 (completed in 2018) will inform feasibility studies to support the selection of a remedial action.^{13, 14} A revised Remedial Investigation report was prepared by Ramboll to evaluate the results of the USEPA investigation for Area 2 (completed in April 2020).¹⁵

MONITORING AND REPORTING

Currently there are more than 600 wells that are actively monitored for groundwater elevations and/or groundwater quality at and downgradient of the Stringfellow site. Groundwater monitoring is performed in accordance with the *2016 Site-Wide Groundwater and Surface Water Monitoring Plan*.¹⁶ The DTSC performs routine monitoring either annually or quarterly to evaluate groundwater quality and reports its findings in quarterly and annual reports, as well as in annual groundwater remedy effectiveness evaluation reports. In

¹² Ramboll US Corporation. (2021). *Pyrite Canyon Groundwater Flow Model*. Prepared for California Department of Toxic Substances Control. January 27, 2021.

¹³ CH2M. (2017). *Draft Final Remedial Investigation Report EPA Area 1, Stringfellow Superfund Site, Jurupa Valley, California*. Prepared for U.S. Environmental Protection Agency, Region 9. April 2017

¹⁴ Ramboll US Corporation. (2018). *EPA Area 2 Remedial Investigation Report Stringfellow Superfund Site, Jurupa Valley California*. October 19, 2018.

¹⁵ Ramboll US Corporation. (2020). *EPA Area 2 Remedial Investigation Report, Stringfellow Superfund Site Riverside County, California*. Prepared for California Department of Toxic Substances Control. April 6, 2020.

¹⁶ Kleinfelder. (2016). *Final Sitewide and Surface Water Monitoring Plan and Sampling and Analysis Plan Stringfellow Superfund Site, Jurupa Valley California*. Prepared for California Department of Toxic Substances Control. July 19, 2016.

general, new wells are sampled quarterly for two years and then incorporated into the annual sampling schedule. The number and type of wells monitored in each zone or area are summarized in Table 2 below.¹⁷ The DTSC also provides monthly reports to the Regional Board, USEPA, and the Santa Ana Watershed Project Authority on the operation and effectiveness of the groundwater pump-and-treat system.

Zone or Area	Number of Wells	Well Type				
		Monitoring Well	Extraction Well	Piezometer	Extraction Sump	Water Supply Well
1A	130	86	38	0	6	-
1B	73	51	11	11	-	-
2	35	27	8	0	-	-
3	131	119	12	0	-	-
4	197	154	4	36	-	3
USEPA Area 1/2	36	36	0	0	-	-
Total	602	473	73	47	6	3

In 2005, the DTSC initiated surface water sampling to evaluate perchlorate concentrations in storm water runoff in Pyrite Creek and its tributary channels. Currently, surface water sampling and reporting are executed pursuant to the *Final Surface Water Sampling and Analysis Plan* and are performed during qualifying storm events, which are classified using the following criteria: at least 72 hours of dry weather have elapsed since a previous storm event and a storm event produces sufficient runoff during daylight hours to perform sampling.¹⁸

Watermaster collects all relevant groundwater and surface water data from the DTSC’s Stringfellow Interface for Data and Documents (SIDD database) on a bi-annual basis as part of its Chino Basin Data Collection effort. These data are periodically used by Watermaster to support its basin management initiatives.

RECENT ACTIVITY

The *2021 Annual Groundwater Sampling and Analysis Report* was submitted by the DTSC to the USEPA on September 30, 2021.¹⁹ Groundwater levels and groundwater-quality samples were collected from 217 wells and piezometers. Groundwater quality samples and level measurements were unable to be collected at 174 of the other scheduled wells for various reasons.

In addition to the annual sampling, quarterly monitoring occurred at six of the seven new wells installed in Zone 1B and Zone 4 in 2019. The results of the monitoring event were included in the *September 2021*

¹⁷ Ramboll US Consulting, Inc. (2022). *Interim Final Technical Impracticability Evaluation Report, Stringfellow Superfund Site, Jurupa Valley, California*. Prepared for California Environmental Protection Agency Department of Toxic Substances Control. March 11, 2022.

¹⁸ Geo-Logic Associates. (2016). *Final Surface Water Sampling and Analysis Plan; Stringfellow Superfund Site*. Prepared for California Department of Toxic Substances Control. July 2016.

¹⁹Geo-Logic Associates. (2021). *2021 Annual Groundwater Sampling and Analysis Report, Jurupa Valley California*. Prepared for California Department of Toxic Substances Control. September 24, 2021.

*Groundwater Sampling and Analysis Report.*²⁰ The 2022 annual groundwater sampling event occurred in April-May 2022. At the time of this report, no results had been posted to EnviroStor by the DTSC.

The most recent surface water monitoring report, the *2020-2021 Annual Surface Water Sampling and Analysis Report* was submitted by the DTSC to the USEPA on September 30, 2021.²¹ The report provides a summary of surface water monitoring events conducted at seven surface water sites in January and March 2021 for the 2020-2021 rain year.

The most recent *Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report* posted on EnviroStor is from 2019.³ The draft *2020 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report* was submitted to the USEPA for review in October 2021, but the final report has not yet been posted to EnviroStor. Between 2009 and 2019, 1,514 pounds of TCE, 287 pounds of chloroform, and 175 pounds of perchlorate were removed from remediation activities and treatment systems for Stringfellow. Overall, contaminant concentrations in groundwater are decreasing across the site and the spatial extent of all contaminants of concern remains stable.

In October of 2021, seven wells located in Zone 4 were decommissioned.²² Five of these wells were removed for the construction of a shopping center in Jurupa Valley, and two of the wells have been dry since 2013 and are not needed to evaluate the extent of the contamination. The five wells that were removed were sampled as part of the 2021 Annual Groundwater Monitoring Event before being abandoned. Following the completion of commercial development, DTSC will develop plans to install replacement groundwater monitoring wells.

On March 11, 2022, the DTSC submitted the *Interim Final Technical Impracticability Evaluation (TIE)* and the *Final Supplemental Feasibility Study Addendum for Zones 1 to 3 (2022 Feasibility Addendum)* to the USEPA.^{17,23} The TIE presents an evaluation of the technical impracticability of restoring groundwater to regulatory cleanup levels in certain areas and hydrogeologic zones at Stringfellow. The 2022 Feasibility Addendum provides recommendations for final remediation actions based on the impracticability to restore groundwater to regulatory levels, as well as results from the Pyrite Canyon Groundwater Flow Model and historical water-quality data. The 2022 Feasibility Addendum also evaluates the performance of existing remedies and provides recommendations to optimize them. Finally, it provides additional remedial action objectives for Zone 3, and recommendations for three Remedy Optimization Alternatives to reduce migration of site-related contamination from Zone 3 to Zone 4. The USEPA and DTSC are expected to release a proposed plan to present the preferred remediation alternatives based on the TIE and 2022 Feasibility Addendum. Following the selection of a remedy, the USEPA will prepare the Final ROD (ROD 5) to provide a rationale for the selected remedy and outline its goals. The ROD 5 is expected to be approved in late 2022.

²⁰ Geo-Logic Associates. (2022). *September 2021 Groundwater Sampling and Analysis Report, Jurupa Valley California*. Prepared for California Department of Toxic Substances Control. January 4, 2022.

²¹ Geo-Logic Associates. (2021). *2020-2021 Annual Surface Water Sampling and Analysis Report, Stringfellow Superfund Site, Riverside County, California*. Prepared for California Department of Toxic Substances Control. September 24, 2021.

²² Geo-Logic Associates. (2022). *Zone 4 Well Decommissioning Report, Jurupa Valley California*. Prepared for California Department of Toxic Substances Control. March 8, 2022.

²³ Ramboll US Consulting, Inc. (2022). *Final Supplemental Feasibility Study Addendum for Zones 1 to 3, Jurupa Valley California*. Prepared for California Department of Toxic Substances Control. March 11, 2022.

The evaluation of remedial alternatives in Zone 4 are not included as part of the 2022 Feasibility Addendum and are instead described in separate reports available on EnviroStor.²⁴ On May 26, 2022 the DTSC submitted to the USEPA the *Revised Final Zone 4 Monitored Natural Attenuation Technical Memorandum*, which presents results of natural attenuation of the Zone 4 perchlorate plume.²⁵ The report concludes that the perchlorate plume is stable and the areas with higher concentration levels (>12 µg/l) are shrinking. Furthermore, it describes that there is a limited geographic area at the southern part of the plume in sediments of the Santa Ana River that is conducive to biodegradation. Finally, it concludes that the natural attenuation processes occurring in groundwater in the Santa Ana River sediments are currently effective in decreasing perchlorate levels to below 6 µg/l and that the perchlorate plume is not contributing to perchlorate levels present in the river.

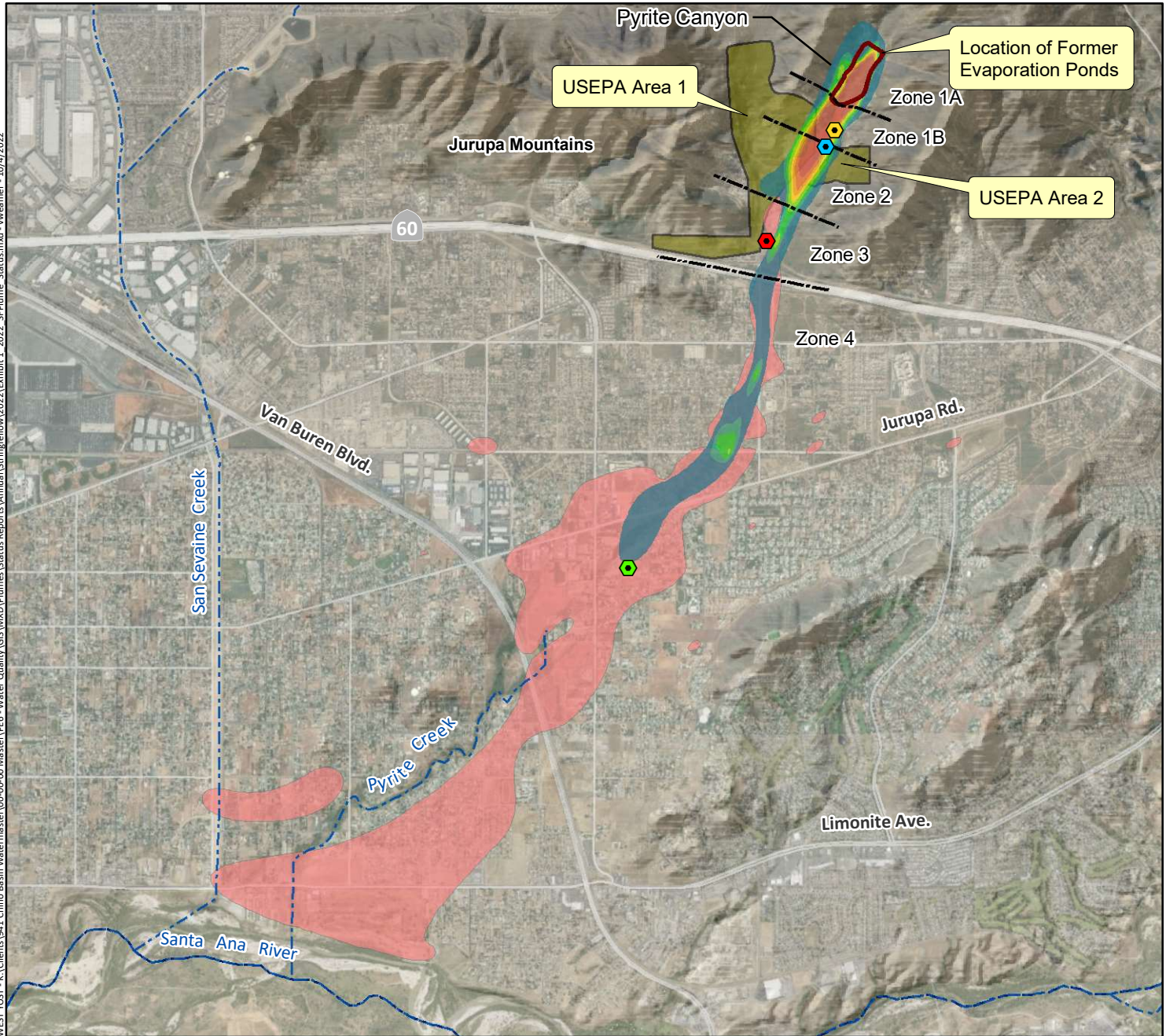
The DTSC continues to inform the communities in the City of Jurupa Valley of updates on the remediation and monitoring of the Stringfellow Site through its annual Community Update Fact Sheet.²⁶

²⁴ <https://www.envirostor.dtsc.ca.gov/public/>. Including the *Final Zone 4 Remedial Investigation Report*, the *Draft Revised Data Gap Investigation Report*, and the *Draft Zone 4 Feasibility Study Report*.

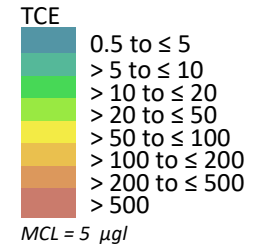
²⁵ Kleinfelder. (2022). *Revised Final Zone 4 Monitored Natural Attenuation Technical Memorandum*, Jurupa Valley California. Prepared for California Department of Toxic Substances Control. May 26, 2022

²⁶ California Department of Toxic Substances Control. (2021). *Legacy Landfills Office Community Update: Stringfellow Superfund Site*. October 2021.

WEST YOST - K:\Clients\941 Chino Basin Watermaster\00-00-00 Master\PE6 - Water Quality\GIS\WQD\Plumes\Status Reports\Annual\Stringfellow\2022 Exhibit 1 - 2022 SF Plume Status.mxd - vearner - 10/4/2022



Maximum Concentration (µg/L)
July 2015 - June 2020



(Delineated by Watermaster in the 2020 State of the Basin Report)

█ Extent of perchlorate plume (≥ 6 µg/l)

Delineated by Kleinfelder in the 2019 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report (2021)

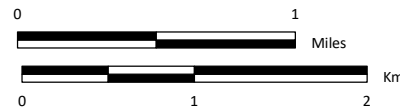
Groundwater Treatment Facilities

- ⬠ Pyrite Canyon Treatment Facility
- ⬠ Pre-Treatment Plant
- ⬠ Lower Canyon Treatment Facility
- ⬠ Community Wellhead Treatment System

- Boundary Between Remediation Zones
- Streams & Flood Control Channels



Prepared by:



Prepared for:

Chino Basin Watermaster
Annual Plume Report

