

# CHINO BASIN WATERMASTER



## NOTICE OF MEETING

**Thursday, October 15, 2020**

9:00 a.m. – Advisory Committee Meeting

***MEETING AVAILABLE BY REMOTE ACCESS ONLY  
(SEE AGENDA FOR DETAILS)***

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

# **CHINO BASIN WATERMASTER**

**Thursday, October 15, 2020**

9:00 a.m. – Advisory Committee Meeting

***AGENDA***

**CHINO BASIN WATERMASTER  
ADVISORY COMMITTEE MEETING**

9:00 a.m. – October 15, 2020

*Mr. Brian Geye, Chair*

*Mr. Jeff Pierson, Vice-Chair*

**Meeting Available by Remote Access Only\***

Click on this [link](#) to access by PC/Smart Device

OR

Conference Call: (646) 749-3122

Access Code: 169-617-085

**AGENDA**

**CALL TO ORDER**

**ROLL CALL**

**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 on September 17, 2020 (*Page 1*)

**B. FINANCIAL REPORTS**

Receive and file as presented:

1. Cash Disbursements for the month of August 2020 (*Page 7*)
2. Watermaster VISA Check Detail for the month of August 2020 (*Page 17*)
3. Combining Schedule for the Period July 1, 2020 through August 31, 2020 (*Page 20*)
4. Treasurer's Report of Financial Affairs for the Period August 1, 2020 through August 31, 2020 (*Page 23*)
5. Budget vs. Actual Report for the Period July 1, 2020 through August 31, 2020 (*Page 27*)
6. Cash Disbursements for September 2020 (Information Only) (*Page 47*)

**II. BUSINESS ITEMS**

**A. CONSIDERATION OF THE 2020 OPTIMUM BASIN MANAGEMENT PROGRAM (*Page 61*)**

Provide advice and assistance to the Watermaster Board.

**B. PROCEDURE AND FEE SCHEDULE FOR REQUESTING INFORMATION AND DOCUMENTS RELATED TO THE CHINO VALLEY MODEL (*Page 83*)**

Offer advice and assistance on the proposed draft procedure.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL**

1. San Bernardino County Superior Court Emergency Order
2. September 25, 2020 Hearing
3. Motion of Appropriative Pool Member Agencies Re: Agricultural Pool Legal and Other Expenses
4. January 8, 2021 Hearing

**B. ENGINEER**

1. Status Report: Local Storage Limitation Solution
2. GLMC Annual Report Summary

**C. CHIEF FINANCIAL OFFICER**

1. AP August 25, 2020 Invoices for \$165,694.75 (*Page 93*)
  - Notice of Delinquency

**D. GENERAL MANAGER**

1. Status Report: OAP Contest
2. 2020/2021 Assessment Package
3. San Sevaine Project Award
4. Other

**E. INLAND EMPIRE UTILITIES AGENCY (*Page 96*)**

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. Recharge Investigations and Projects Committee (RIPCom) (*Page 98*)
2. Plumes Status Reports (*Page 122*)
3. Ground-Level Monitoring Status Report (*Page 187*)

**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\***

10/13/20	Tue	1:00 p.m.	2020 OBMP Meeting
10/15/20	Thu	9:00 a.m.	Advisory Committee
10/15/20	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPCom)
10/20/20	Tue	8:30 a.m.	2020/21 Assessment Package Workshop No. 1
10/22/20	Thu	11:00 a.m.	Watermaster Board
10/27/20	Tue	8:30 a.m.	2020/21 Assessment Package Workshop No. 2

\* Due to the uncertainty related to COVID-19, and for the safeguarding of all, Watermaster meetings will continue to be held remotely until further notice. Remote access to the open portions of the meetings will be provided with each meeting notice.

**ADJOURNMENT**



# CHINO BASIN WATERMASTER

## I. CONSENT CALENDAR

### A. MINUTES

1. Advisory Committee Meeting held on September 17, 2020

**DRAFT MINUTES**  
**CHINO BASIN WATERMASTER**  
**ADVISORY COMMITTEE MEETING**

September 17, 2020

The Advisory Committee meeting was held by GoToMeeting (conference call and web meeting) on September 17, 2020.

**ADVISORY COMMITTEE MEMBERS PRESENT ON CALL**

**NON-AGRICULTURAL POOL**

Brian Geye, Chair  
Bob Bowcock

California Speedway Corporation  
CalMat Co.

**AGRICULTURAL POOL**

Jeff Pierson, Vice-Chair  
Bob Feenstra  
Pete Hall

Crops  
Dairy  
State of California – CIM/CDCR

**APPROPRIATIVE POOL**

Van Jew, Second Vice-Chair  
Van Jew  
Ron Craig  
Cris Fealy  
Josh Swift  
John Bosler  
Chris Diggs  
Scott Burton  
Steve Ledbetter for Rosemary Hoerning  
Steve Ledbetter for Rosemary Hoerning  
Chris Berch  
Dave Crosley

Monte Vista Water District  
Monte Vista Irrigation Company  
City of Chino Hills  
Fontana Water Company  
Fontana Union Water Company  
Cucamonga Valley Water District  
City of Pomona  
City of Ontario  
West End Consolidated Water Company  
City of Upland  
Jurupa Community Services District  
City of Chino

**WATERMASTER STAFF PRESENT AT WATERMASTER**

Peter Kavounas  
Janine Wilson  
Vanessa Aldaz

General Manager  
Senior Accountant  
Administrative Assistant

**WATERMASTER STAFF PRESENT ON CALL**

Joseph Joswiak  
Edgar Tellez Foster  
Anna Nelson  
Justin Nakano  
Frank Yoo

Chief Financial Officer  
Water Resources Mgmt. and Planning Dir.  
Executive Services Director  
Water Resources Technical Manager  
Water Resources Senior Associate

**WATERMASTER CONSULTANTS PRESENT ON CALL**

Brad Herrema  
Andy Malone  
Mark Wildermuth

Brownstein Hyatt Farber Schreck, LLP  
Wildermuth Environmental, Inc.  
Wildermuth Environmental, Inc.

**OTHERS PRESENT ON CALL**

David De Jesus  
Praseetha Krishnan  
Eunice Ulloa  
Matthew Litchfield

Three Valleys Municipal Water District  
Cucamonga Valley Water District  
City of Chino  
Three Valleys Municipal Water District

Brian Lee  
 Sylvie Lee  
 Ben Lewis  
 Todd Minten  
 Randall Reed  
 Steve Nix  
 Amanda Coker  
 Courtney Jones  
 Gino Filippi  
 John Lopez  
 Kevin Kenley  
 Marilyn Levin

San Antonio Water Company  
 Inland Empire Utilities Agency  
 Golden State Water Company  
 Santa Ana River Water Company  
 Cucamonga Valley Water District  
 City of Upland  
 City of Chino  
 City of Ontario  
 Agricultural Pool – Crops  
 Santa Ana River Water Company  
 Cucamonga Valley Water District  
 Agricultural Pool – State of California – DOJ

**CALL TO ORDER**

Chair Geye called the Advisory Committee meeting to order at 9:01 a.m.

**ROLL CALL**

(0:01:25) Ms. Nelson conducted the roll call and announced that a quorum was present.

**AGENDA – ADDITIONS/REORDER**

None

**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 on August 20, 2020

**B. FINANCIAL REPORTS**

Receive and file as presented:

1. Cash Disbursements for the month of July 2020
2. Watermaster VISA Check Detail for the month of July 2020
3. Combining Schedule for the Period July 1, 2020 through July 31, 2020
4. Treasurer’s Report of Financial Affairs for the Period July 1, 2020 through July 31, 2020
5. Budget vs. Actual Report for the Period July 1, 2020 through July 31, 2020
6. Cash Disbursements for August 2020 (Information Only)

**C. OBMP SEMI-ANNUAL STATUS REPORT 2020-1**

Recommend Watermaster Board adoption of the Semi-Annual OBMP Status Report 2020-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

**D. APPLICATION: WATER TRANSACTION**

Recommend to the Watermaster Board to approve 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 Excess Carryover Account. Golden State Water Company is utilizing this transaction to produce its West End Consolidated Water Company shares. Date of application: June 18, 2020.

**E. APPLICATION: LOCAL STORAGE AGREEMENTS – APPROPRIATIVE POOL**

Recommend to the Watermaster Board to approve the proposed agreements:  
Consideration of Application for Local Storage Agreements – Storage of Local Supplemental Water by members of the Appropriative Pool.

(0:03:58)

*Motion by Mr. Scott Burton, seconded by Vice-Chair Pierson, and by unanimous vote  
**Moved to approve the Consent Calendar as presented.***

**II. BUSINESS ITEMS**

**A. 2020 OBMP CEQA – INCREASED SCOPE OF WORK**

Recommend to the Watermaster Board to expand the WEI, TDA, and BHFS scope of work, as necessary, to implement the Local Storage Limitation Solution first.

(0:04:34) Mr. Kavounas gave a report.

(0:06:50)

*Motion by Mr. Ron Craig, seconded by Mr. John Bosler, and by unanimous vote  
**Moved to approve Business Item II.A. as presented***

**B. FISCAL YEAR 2020/21 BUDGET AMENDMENT (FORM A-20-09-01)**

Approve FY 2020/21 Budget Amendment (Form A-20-09-01) as presented.

(0:07:49) Mr. Kavounas gave a report. A discussion ensued.

(0:11:27)

*Motion by Mr. Ron Craig, seconded by Mr. Chris Berch, and by unanimous vote  
**Moved to approve Business Item II.B. as presented***

**C. CONSIDERATION OF THE 2020 OPTIMUM BASIN MANAGEMENT PROGRAM UPDATE**

Provide advice and assistance to the Watermaster Board.

(0:12:08) Mr. Kavounas gave a report. A discussion ensued.

(0:14:47) A motion was introduced by Mr. Craig and seconded by Mr. Scott Burton. Further discussion ensued.

(0:21:11) Monte Vista Water District representative, Mr. Jew, stated that MVWD would be submitting separate comments to Watermaster staff. Further discussion ensued.

(0:25:53) Vote taken

*Motion by Mr. Ron Craig, seconded by Mr. Scott Burton, and by unanimous vote  
**Moved to recommend to the Watermaster Board to delay consideration of the 2020 OBMPU by one or possibly two months in order to consider specific comments that would be offered by the Appropriative Pool and any other parties.***

**D. FISCAL YEAR 2020/21 BUDGET INCREASE (DISCUSSION ONLY)**

(0:27:33) Mr. Kavounas gave a report. A discussion ensued.

**III. REPORTS/UPDATES**

**A. LEGAL COUNSEL REPORT**

1. San Bernardino County Superior Court Emergency Order
2. September 25, 2020 Hearing
3. Ely 3 Basin Update

(0:35:08) Mr. Herrema gave a report.

**B. ENGINEER REPORT**

1. Water Rights Permit 21225
2. Plume Reports
3. GLMC Annual Report

(0:36:51) Mr. Malone gave a report.

**C. CFO REPORT**

1. FY 2019/20 Audit Schedule
2. AP Special Assessment for \$165,694.75

(0:37:34) Mr. Joswiak stated that the CFO's report was unchanged from the Pool Committee Meetings provided last week; the Advisory Committee declined to hear it again.

**D. GM REPORT**

1. Status Report: OAP Contest
2. Stored Water Account Balances (June 30, 2020 Preliminary Numbers)
3. San Sevaine Project Award
4. Agricultural Pool Revised Rules and Regulations
5. Water Activity Report Tracker
6. Other

(0:38:05) Mr. Kavounas stated that the General Manager's report was unchanged from the Pool Committee Meetings provided last week; the Advisory Committee declined to hear it again.

**E. INLAND EMPIRE UTILITIES AGENCY**

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

None

**F. METROPOLITAN MEMBER AGENCY REPORTS**

(0:38:41) Mr. Litchfield reported that Metropolitan Water District approved an additional \$12M cuts to their budget due to lower demands. A discussion ensued.

**IV. COMMITTEE MEMBER COMMENTS**

None

**V. OTHER BUSINESS**

None

**VI. CONFIDENTIAL SESSION - POSSIBLE ACTION**

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

None

**ADJOURNMENT**

Chair Geye adjourned the Advisory Committee meeting at 9:42 a.m.

Secretary: \_\_\_\_\_

Approved: \_\_\_\_\_

# CHINO BASIN WATERMASTER

## I. CONSENT CALENDAR

### B. FINANCIAL REPORTS

1. Cash Disbursements for the month of August 2020
2. Watermaster VISA Check Detail for the month of August 2020
3. Combining Schedule for the Period July 1, 2019 through August 31, 2020
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5. Budget vs. Actual Report for the Period July 1, 2020 through August 31, 2020
6. Cash Disbursements for September 2020 (Information Only)



# CHINO BASIN WATERMASTER

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Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15, 2020  
TO: Advisory Committee  
SUBJECT: Cash Disbursement Report - Financial Report B1 (August 31, 2020)  
(Consent Calendar Item I.B.1.)

### SUMMARY

Issue: Record of Cash Disbursements for the month of August 2020.

Recommendation: Receive and file Cash Disbursements for August 2020 as presented.

Financial Impact: Funds disbursed were included in the FY 2020/21 "Amended" Watermaster Budget.

### Future Consideration

**Advisory Committee – October 15, 2020:** Receive and File

**Watermaster Board – October 22, 2020:** Receive and File (Normal Course of Business)

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### ACTIONS:

**Appropriative Pool – October 8, 2020:** Receive and file

**Agricultural Pool – October 8, 2020:** Receive and file

**Non-Agricultural Pool – October 9, 2020:** Moved unanimously to receive and file, without approval

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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 2020 were \$651,886.59.

The most significant expenditures during the month were to Brownstein Hyatt Farber Schreck in the amounts of \$132,355.37 and \$104,389.57 (check number 22311 dated August 4, 2020 and check number 22337 dated August 18, 2020); and Egoscue Law Group, Inc. in the amounts of \$165,694.75 and \$58,695.00 (check number 22328 dated August 6, 2020 and check number 22329 dated August 6, 2020).

## ATTACHMENTS

1. Financial Report - B1

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Financial Report - B1

Type	Date	Num	Name	Memo	Account	Paid Amount
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>ACH 080420</b>	<b>CALPERS</b>	<b>1394905143</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/01/2020	1394905143		Medical Insurance Premiums - August 2020	60182.1 · Medical Insurance	11,014.66
TOTAL						11,014.66
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22309</b>	<b>ACWA JOINT POWERS INSURANCE AUTHORITY</b>	<b>10651621</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/03/2020	0651621		Prepayment - September 2020	1409 · Prepaid Life, BAD&D & LTD	251.30
				August 2020	60191 · Life & Disab.Ins Benefits	258.80
TOTAL						510.10
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22310</b>	<b>APPLIED COMPUTER TECHNOLOGIES</b>	<b>3151</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	3151		Database Consulting Services - July 2020	6052.2 · Applied Computer Technol	3,850.00
TOTAL						3,850.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22311</b>	<b>BROWNSTEIN HYATT FARBER SCHRECK</b>		<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	06/30/2020	808900		808900	6078 · BHFS Legal - Miscellaneous	28,622.25
Bill	06/30/2020	808901		GM Evaluation & Contract	6073 · BHFS Legal - Personnel Matters	11,267.10
Bill	06/30/2020	808902		808902	6907.34 · Santa Ana River Water Rights	1,381.05
Bill	06/30/2020	808903		808903	6275 · BHFS Legal - Advisory Committee	311.85
Bill	06/30/2020	808904		808904	6375 · BHFS Legal - Board Meeting	4,102.65
Bill	06/30/2020	808905		808905	8375 · BHFS Legal - Appropriative Pool	846.45
Bill	06/30/2020	808906		808906	8475 · BHFS Legal - Agricultural Pool	846.45
Bill	06/30/2020	808907		808907	8575 · BHFS Legal - Non-Ag Pool	846.45
Bill	06/30/2020	808908		808908	6071 · BHFS Legal - Court Coordination	8,915.40
				Delivery/Ground Transportation	6071 · BHFS Legal - Court Coordination	6.10
				Filing Fee	6071 · BHFS Legal - Court Coordination	282.00
				Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	59.54
				Federal Express	6071 · BHFS Legal - Court Coordination	20.89
Bill	06/30/2020	808909		808909	6077 · BHFS Legal - Party Status Maint	2,160.00
Bill	06/30/2020	808910		808910	6907.39 · Recharge Master Plan	801.90
Bill	06/30/2020	808911		808911	6907.41 · Prado Basin Habitat Sustain	311.85
Bill	06/30/2020	808912		808912	6907.45 · OBMP Update	43,394.40
Bill	06/30/2020	808913		808913	6907.47 · 2020 Safe Yield Reset	27,864.45
				Research-Westlaw	6907.47 · 2020 Safe Yield Reset	314.59
TOTAL						132,355.37
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22312</b>	<b>DE BOOM, NATHAN</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	07/22/2020	7/22 Special Ag Pool		7/22/20 Special Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
				7/22/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22313</b>	<b>ELIE, STEVEN</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22314</b>	<b>EMPOWER LAB</b>	<b>1493</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	1493		Empower Lab-July 2020	6193 · Employee Training	1,075.00
TOTAL						1,075.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22315</b>	<b>FILIPPI, GINO</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool meeting	6311 · Board Member Compensation	125.00
Bill	07/10/2020	7/10 Court Hearing		7/10/20 Court Hearing	6311 · Board Member Compensation	125.00
Bill	07/16/2020	7/16 Advisory Comm		7/16/20 Advisory Committee meeting	6311 · Board Member Compensation	125.00
Bill	07/17/2020	7/17 Special Ag Pool		7/17/20 Special Ag Pool meeting	6311 · Board Member Compensation	125.00
Bill	07/22/2020	7/22 Special Ag Pool		7/22/20 Special Ag Pool meeting	6311 · Board Member Compensation	125.00
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board meeting	6311 · Board Member Compensation	125.00
TOTAL						750.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22316</b>	<b>KUHN, BOB</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/07/2020	7/07 Exec. Comm		7/07/20 Executive Committee meeting	6311 · Board Member Compensation	125.00
Bill	07/09/2020	7/09 Appro Pool Mtg		7/09/20 Appropriative Pool meeting	6311 · Board Member Compensation	125.00
Bill	07/10/2020	7/10 Court Hearing		7/10/20 Court Hearing	6311 · Board Member Compensation	125.00
Bill	07/16/2020	7/16 Advisory Comm		7/16/20 Advisory Committee meeting	6311 · Board Member Compensation	125.00
Bill	07/21/2020	7/21 Exec Comm		7/21/20 Executive Committee meeting	6311 · Board Member Compensation	125.00
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board meeting	6311 · Board Member Compensation	125.00
TOTAL						750.00
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22317</b>	<b>PETTY CASH</b>	<b>2860-2868</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	2860-2868		Plexiglass partition supplies-CV19	6027 · Other Building Expense	310.63
				Supplies for staff meeting	6141.3 · Admin Meetings	6.74
TOTAL						317.37
<b>Bill Pmt -Check</b>	<b>08/04/2020</b>	<b>22318</b>	<b>ROGERS, PETER</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
<b>Bill Pmt -Check</b>	<b>08/06/2020</b>	<b>22319</b>	<b>BURRTEC WASTE INDUSTRIES, INC.</b>	<b>N2111367321</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	N2111367321		August 2020	6024 · Building Repair & Maintenance	135.72

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						135.72
Bill Pmt -Check	08/06/2020	22320	EGOSCUE LAW GROUP, INC.	VOID:	1012 · Bank of America Gen'l Ckg	0.00
TOTAL						0.00
Bill Pmt -Check	08/06/2020	22321	FONTANA UNION WATER COMPANY'	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	07/07/2020	7/07 Board Officers		7/07/20 Board Officers meeting - Curatalo	6311 · Board Member Compensation	125.00
Bill	07/12/2020	7/12 Court Debrief		7/12/20 Court hearing debrief - Curatalo	6311 · Board Member Compensation	125.00
Bill	07/16/2020	7/16 Board Officers		7/16/20 Board/Pool leadership - Curatalo	6311 · Board Member Compensation	125.00
Bill	07/21/2020	7/21 Board Agenda		7/21/20 Board agenda review - Curatalo	6311 · Board Member Compensation	125.00
Bill	07/22/2020	7/22 Board Agenda		7/22/20 Board agenda/mtg prep - Curatalo	6311 · Board Member Compensation	125.00
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board meeting - Curatalo	6311 · Board Member Compensation	125.00
TOTAL						750.00
Bill Pmt -Check	08/06/2020	22322	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	07/17/2020	7/17 Special Ag Pool		7/17/20 Special Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				7/17/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	07/22/2020	7/22 Special Ag Pool		7/22/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	07/23/2020	7/23 Board Mtg		7/23/20 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						500.00
Bill Pmt -Check	08/06/2020	22323	PRINTING RESOURCES	66555	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	66555		Business cards - J. Nakano, ETF	6031.7 · Other Office Supplies	192.87
TOTAL						192.87
Bill Pmt -Check	08/06/2020	22324	PURCHASE POWER	8000-9090-0016-8851	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	8000909000168851		Postage refill - 6/25/20	6042 · Postage - General	500.00
				Send Pro account for large packages	6042 · Postage - General	20.00
TOTAL						520.00
Bill Pmt -Check	08/06/2020	22325	RR FRANCHISING, INC.	9765	1012 · Bank of America Gen'l Ckg	
Bill	08/04/2020	89765		Monthly service - August 2020	6024 · Building Repair & Maintenance	915.00
TOTAL						915.00
Bill Pmt -Check	08/06/2020	22326	STATE COMPENSATION INSURANCE FUND	1970970-20	1012 · Bank of America Gen'l Ckg	
Bill	08/01/2020	1970970-20		Premium 7/26/20-8/26/20	60183 · Worker's Comp Insurance	514.25
TOTAL						514.25

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/06/2020	22327	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	7076224530355049		July 2020	6175 · Vehicle Fuel	38.32
TOTAL						38.32
Bill Pmt -Check	08/06/2020	22328	EGOSCUE LAW GROUP, INC.	Ag Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	05/31/2020	12771		May 2020	8467 · Ag Legal & Technical Services	42,359.75
Bill	06/30/2020	12801		June 2020	8467 · Ag Legal & Technical Services	123,335.00
TOTAL						165,694.75
Bill Pmt -Check	08/06/2020	22329	EGOSCUE LAW GROUP, INC.	Ag Pool Legal Services	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	July 2020		July 2020	8467 · Ag Legal & Technical Services	58,695.00
TOTAL						58,695.00
General Journal	08/08/2020	08/08/2020	Payroll and Taxes for 07/26/20-08/08/20	Payroll and Taxes for 07/26/20-08/08/20	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 07/26/20-08/08/20	1012 · Bank of America Gen'l Ckg	29,102.93
				Payroll Taxes for 07/26/20-08/08/20	1012 · Bank of America Gen'l Ckg	10,504.73
			ICMA-RC	457(b) EE Deductions for 07/26/20-08/08/20	1012 · Bank of America Gen'l Ckg	5,476.92
			ICMA-RC	401(a) EE Deductions for 07/26/20-08/08/20	1012 · Bank of America Gen'l Ckg	1,562.57
TOTAL						46,647.15
Bill Pmt -Check	08/13/2020	22330	ACCENT COMPUTER SOLUTIONS, INC.	Adobe Acrobat Pro Licenses	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	137124		Adobe Acrobat Pro 2017 license-Aldaz	6054 · Computer Software	203.88
Bill	07/31/2020	137125		Adobe Acrobat Pro 2017 license-Wilson	6054 · Computer Software	203.88
TOTAL						407.76
Bill Pmt -Check	08/13/2020	22331	BOWCOCK, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	07/10/2020	7/10 Court Hearing		7/10/20 Court Hearing	6311 · Board Member Compensation	125.00
Bill	07/16/2020	7/16 RIPCom Mtg		7/16/20 RIPCom meeting	6311 · Board Member Compensation	125.00
Bill	07/23/2020	7/23 Board Meeting		7/23/20 Board meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
Bill Pmt -Check	08/13/2020	22332	CORELOGIC INFORMATION SOLUTIONS	82035441	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	82035441		July 2020	7103.7 · Grdwtr Qual-Computer Svc	62.50
				82035441	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
Bill Pmt -Check	08/13/2020	22333	LOEB & LOEB LLP	1901976	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	1901976		Non-Ag Pool Legal Services - July 2020	8567 · Non-Ag Legal Service	6,874.90
TOTAL						6,874.90

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
<b>Bill Pmt -Check</b>	<b>08/13/2020</b>	<b>22334</b>	<b>EASTVALE DEVELOPMENT - PIERSON</b>	<b>Ag Pool and Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	10/03/2019	10/03 Board Officers		10/03/19 Board Officers/Pool Chairs Meeting	6311 · Board Member Compensation	125.00
Bill	10/10/2019	10/10 Ag Pool Mtg		10/10/19 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/17/2019	10/17 Advisory Comm		10/17/19 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	10/17/2019	10/17 OBMPU LS 7		10/17/19 OBMP Update Listening Session 7	8470 · Ag Meeting Attend -Special	125.00
Bill	10/22/2019	10/22 Board Agenda		10/22/19 Board Agenda Preview Call	6311 · Board Member Compensation	125.00
Bill	10/23/2019	10/23 Board Mtg Chk		10/23/19 Last Mlnute Check-Board Mtg Call	6311 · Board Member Compensation	125.00
Bill	10/24/2019	10/24 Board Mtg		10/24/19 Board Meeting	6311 · Board Member Compensation	125.00
<b>TOTAL</b>						<b>875.00</b>
<b>Bill Pmt -Check</b>	<b>08/13/2020</b>	<b>22335</b>	<b>RR FRANCHISING, INC.</b>	<b>90496</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/06/2020	90496		8/01/20 Electrostatic spraying of office and annex	6024 · Building Repair & Maintenance	355.00
<b>TOTAL</b>						<b>355.00</b>
<b>Bill Pmt -Check</b>	<b>08/14/2020</b>	<b>ACH 081420</b>	<b>PUBLIC EMPLOYEES' RETIREMENT SYSTEM</b>	<b>Payor #3493</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
General Journal	08/08/2020	08/08/2020	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 07/26/20-08/08/20	2000 · Accounts Payable	8,586.15
<b>TOTAL</b>						<b>8,586.15</b>
<b>General Journal</b>	<b>08/14/2020</b>	<b>20/08/08</b>	<b>ADP, LLC</b>	<b>ADP Tax Service</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
				ADP Tax Service for 07/11/20-562165023	1012 · Bank of America Gen'l Ckg	155.50
				ADP Tax Service for 07/25/20-562165023	1012 · Bank of America Gen'l Ckg	155.50
<b>TOTAL</b>						<b>311.00</b>
<b>Check</b>	<b>08/17/2020</b>	<b>08/17/20</b>	<b>Service Charge</b>	<b>Service Charge</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
				Service Charge	6039.1 · Banking Service Charges	648.41
<b>TOTAL</b>						<b>648.41</b>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22336</b>	<b>BANK OF AMERICA</b>	<b>XXXX-XXXX-XXXX-9341</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	XXXX-XXXX-XXXX-9341		Signs for office-CV19	6031.7 · Other Office Supplies	93.91
				Plexiglass partition supplies-CV19	6027 · Other Building Expense	20.92
				Miscellaneous office supplies-CV19	6031.7 · Other Office Supplies	102.30
				Overnght check to court reporter-7/10/20	6042 · Postage - General	32.56
				Miscellaneous office supplies	6031.7 · Other Office Supplies	28.80
				Docs to Jeff Pierson	6042 · Postage - General	12.50
				Misc. office supplies - emergency kit supplies	6031.7 · Other Office Supplies	100.57
				Misc. office supplies - emergency kit supplies	6031.7 · Other Office Supplies	64.99
				Frame for picture of office staff	6031.7 · Other Office Supplies	68.63
				Docs to B. Herrema	6042 · Postage - General	12.75
				Docs to Jeff Pierson	6042 · Postage - General	8.50
				Monthly fee for webinar service	6022 · Telephone	59.00

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
				Resource guide for office	6031.7 · Other Office Supplies	49.99
TOTAL						<u>655.42</u>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22337</b>	<b>BROWNSTEIN HYATT FARBER SCHRECK</b>		<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	810728		810728	6078 · BHFS Legal - Miscellaneous	30,021.30
				Research	6078 · BHFS Legal - Miscellaneous	1.26
Bill	07/31/2020	810729		GM Employment Agreement	6073 · BHFS Legal - Personnel Matters	7,739.10
Bill	07/31/2020	810730		810730	6275 · BHFS Legal - Advisory Committee	1,158.30
Bill	07/31/2020	810731		810731	6375 · BHFS Legal - Board Meeting	12,182.40
Bill	07/31/2020	810732		810732	8375 · BHFS Legal - Appropriative Pool	1,202.85
Bill	07/31/2020	810733		810733	8475 · BHFS Legal - Agricultural Pool	1,202.85
Bill	07/31/2020	810734		810734	8575 · BHFS Legal - Non-Ag Pool	1,202.85
Bill	07/31/2020	810735		810735	6071 · BHFS Legal - Court Coordination	21,273.75
				Delivery/Ground Transportation	6071 · BHFS Legal - Court Coordination	6.10
				Filing Fee	6071 · BHFS Legal - Court Coordination	752.00
				Mileage/Parking Expense	6071 · BHFS Legal - Court Coordination	59.54
Bill	07/31/2020	810736		810736	6077 · BHFS Legal - Party Status Maint	89.10
Bill	07/31/2020	810737		810737	6907.39 · Recharge Master Plan	133.65
Bill	07/31/2020	810738		810738	6907.45 · OBMP Update	26,914.95
Bill	07/31/2020	810739		810739	6907.47 · 2020 Safe Yield Reset	211.50
Bill	07/31/2020	810740		810740	6078.25 · Ely 3 Basin Investigation	217.80
				Research	6078.25 · Ely 3 Basin Investigation	20.27
TOTAL						<u>104,389.57</u>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22338</b>	<b>CUCAMONGA VALLEY WATER DISTRICT</b>	<b>Office Lease</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/17/2020			Lease due on September 1, 2020	1422 · Prepaid Rent	7,093.14
TOTAL						<u>7,093.14</u>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22339</b>	<b>DE HAAN, HENRY</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						<u>125.00</u>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22340</b>	<b>EUROFINS EATON ANALYTICAL</b>	<b>L0524858</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/22/2020	L0524858		L0524858	7103.5 · Grdwtr Qual-Lab Svcs	1,256.00
TOTAL						<u>1,256.00</u>
<b>Bill Pmt -Check</b>	<b>08/18/2020</b>	<b>22341</b>	<b>FIRST LEGAL NETWORK LLC</b>	<b>40041198</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	40041198		Court filings for July 2020	6061.5 · Court Filing Services	829.78
TOTAL						<u>829.78</u>

**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/18/2020	22342	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2020	90948438900509145		Office fax	6022 · Telephone	156.71
TOTAL						156.71
Bill Pmt -Check	08/18/2020	22343	JANITOR'S CHOICE	INV01104	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	INV01104		Stands for hand sanitizer dispensers-CV19	6031.7 · Other Office Supplies	262.20
TOTAL						262.20
Bill Pmt -Check	08/18/2020	22344	LEGAL SHIELD	111802	1012 · Bank of America Gen'l Ckg	
Bill	08/13/2020	111802		Employee deductions - August 2020	60194 · Other Employee Insurance	177.35
TOTAL						177.35
Bill Pmt -Check	08/18/2020	22345	STAULA, MARY L	Retiree medical	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2020			Retiree medical	60182.4 · Retiree Medical	30.72
TOTAL						30.72
Bill Pmt -Check	08/18/2020	22346	TOM DODSON & ASSOCIATES	CB271 20-8	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	CB271 20-8		July 2020 - OBMP Update PEIR	6908.1 · 2020 OBMP Update-Dodson & Assoc	8,765.00
TOTAL						8,765.00
Bill Pmt -Check	08/18/2020	22347	UNITED HEALTHCARE	052555600005	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2020	052555600005		Dental Insurance Premium - Sep. 2020	60182.2 · Dental & Vision Ins	805.17
TOTAL						805.17
Bill Pmt -Check	08/18/2020	22348	VERIZON WIRELESS	9860067538	1012 · Bank of America Gen'l Ckg	
Bill	08/14/2020	9860067538		Acct #470810953-00001	6022 · Telephone	320.67
TOTAL						320.67
Bill Pmt -Check	08/25/2020	ACH 082520	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	08/01/2020	16124810		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	7,622.21
TOTAL						7,622.21
General Journal	08/27/2020	08/27/20	Payroll and Taxes for 08/09/20-08/22/20	Payroll and Taxes for 08/09/20-08/22/20	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 08/09/20-08/22/20	1012 · Bank of America Gen'l Ckg	41,041.34
				Payroll Taxes for 08/09/20-08/22/20	1012 · Bank of America Gen'l Ckg	13,473.33
			ICMA-RC	457(b) EE Deductions for 08/09/20-08/22/20	1012 · Bank of America Gen'l Ckg	6,497.31
			ICMA-RC	401(a) EE Deductions for 08/09/20-08/22/20	1012 · Bank of America Gen'l Ckg	1,889.94
TOTAL						62,901.92



**CHINO BASIN WATERMASTER**  
**Cash Disbursements For The Month of**  
**August 2020**

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/27/2020	22349	GREAT AMERICA LEASING CORP.	27619595	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2020	27619595		Invoice for July 2020 - standard payment	6043.1 · Ricoh Lease Fee	1,440.91
				Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
TOTAL						<u>1,449.48</u>
Bill Pmt -Check	08/27/2020	22350	NELSON, ANNA	Employee Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
Bill	08/18/2020			Tuition reimbursement-AN	6193 · Employee Training	383.11
TOTAL						<u>383.11</u>
Bill Pmt -Check	08/31/2020	ACH 083120	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	08/22/2020	08/22/2020	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/09/20-08/22/20	2000 · Accounts Payable	8,586.15
TOTAL						<u>8,586.15</u>
General Journal	08/31/2020	08/31/2020	Wage Works FSA Direct Debits-Aug. 2020	Wage Works FSA Direct Debits-Aug. 2020	1012 · Bank of America Gen'l Ckg	
				Wage Works FSA Direct Debits-Aug. 2020	1012 · Bank of America Gen'l Ckg	572.32
				Wage Works FSA Direct Debits-Aug. 2020	1012 · Bank of America Gen'l Ckg	572.32
				Wage Works FSA Direct Debits-Aug. 2020	1012 · Bank of America Gen'l Ckg	572.32
				Wage Works FSA Direct Debits-Aug. 2020	1012 · Bank of America Gen'l Ckg	76.25
TOTAL						<u>1,793.21</u>
					<b>Total Disbursements:</b>	<u><u>651,886.59</u></u>



# CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, CA 91730  
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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15 2020  
TO: Advisory Committee  
SUBJECT: VISA Check Detail Report - Financial Report B2 (August 31, 2020)  
(Consent Calendar Item I.B.2.)

### SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of August 2020.

Recommendation: Receive and file VISA Check Detail Report for August 2020 as presented.

Financial Impact: Funds disbursed were included in the FY 2020/21 "Amended" Watermaster Budget.

### Future Consideration

**Advisory Committee – October 15, 2020:** Receive and File

**Watermaster Board – October 22, 2020:** Receive and File (Normal Course of Business)

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### ACTIONS:

**Appropriative Pool – October 8, 2020:** Receive and file

**Agricultural Pool – October 8, 2020:** Receive and file

**Non-Agricultural Pool – October 9, 2020:** Moved unanimously to receive and file, without approval

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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 2020 was \$655.42. The payment was processed in the amount of \$655.42 (by check number 22336 dated August 18, 2020). The monthly charges for August 2020 of \$655.42 were for routine and customary expenditures and properly documented with receipts.

## ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER  
VISA Check Detail Report  
August 2020

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	08/18/2020	22336	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	07/31/2020	XXXX-XXXX-XXXX-9341		Signs for office-CV19	6031.7 · Other Office Supplies	93.91
				Plexiglass partition supplies-CV19	6027 · Other Building Expense	20.92
				Miscellaneous office supplies-CV19	6031.7 · Other Office Supplies	102.30
				Overnght check to court reporter-7/10/20	6042 · Postage - General	32.56
				Miscellaneous office supplies	6031.7 · Other Office Supplies	28.80
				Docs to Jeff Pierson	6042 · Postage - General	12.50
				Misc. office supplies - emergency kit supplies	6031.7 · Other Office Supplies	100.57
				Misc. office supplies - emergency kit supplies	6031.7 · Other Office Supplies	64.99
				Frame for picture of office staff	6031.7 · Other Office Supplies	68.63
				Docs to B. Herrema	6042 · Postage - General	12.75
				Docs to Jeff Pierson	6042 · Postage - General	8.50
				Monthly fee for webinar service	6022 · Telephone	59.00
				Resource guide for office	6031.7 · Other Office Supplies	49.99
					<b>Total Disbursements:</b>	<b>\$655.42</b>

TOTAL



# CHINO BASIN WATERMASTER

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Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15 2020  
TO: Advisory Committee  
SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2020 through August 31, 2020 - Financial Report B3 (August 31, 2020) (Consent Calendar Item I.B.3.)

### SUMMARY

Issue: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2020 through August 31, 2020.

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2020 through August 31, 2020 as presented.

Financial Impact: Funds disbursed were included in the FY 2020/21 "Amended" Watermaster Budget.

### Future Consideration

**Advisory Committee – October 15, 2020:** Receive and File

**Watermaster Board – October 22, 2020:** Receive and File (Normal Course of Business)

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### ACTIONS:

**Appropriative Pool – October 8, 2020:** Receive and file

**Agricultural Pool – October 8, 2020:** Receive and file

**Non-Agricultural Pool – October 9, 2020:** Moved unanimously to receive and file, without approval

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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, 2020 through August 31, 2020 is provided to keep all members apprised of the FY 2020/21 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 18.0, 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, 2020 THROUGH AUGUST 31, 2020

Financial Report - B3

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUNDWATER REPLENISHMENT	LAIF VALUE ADJ.	GASB 75 BEG. NET POSITION	GRAND TOTALS	AMENDED BUDGET 2020-2021
			APPROPRIATIVE POOL	AG POOL	NON-AG POOL					
<b>Administrative Revenues:</b>										
Administrative Assessments			-		-				-	8,700,939
Interest Revenue			-	-	-				-	130,813
Mutual Agency Project Revenue	173,102								173,102	176,203
Miscellaneous Income	11								11	0
<b>Total Revenues</b>	<b>173,114</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>173,114</b>	<b>9,007,955</b>
<b>Administrative &amp; Project Expenditures:</b>										
Watermaster Administration	317,775								317,775	1,637,557
Watermaster Board-Advisory Committee	54,533								54,533	237,438
Ag Pool Misc. Expense - Ag Fund				-					-	400
Pool Administration			65,190	124,635	17,009				206,834	808,674
Optimum Basin Mgmt Administration		223,062							223,062	1,854,839
OBMP Project Costs		676,245							676,245	4,787,906
Debt Service		534,496							534,496	534,496
Basin Recharge Improvements		-							-	1,693,292
<b>Total Administrative/OBMP Expenses</b>	<b>372,307</b>	<b>1,433,804</b>	<b>65,190</b>	<b>124,635</b>	<b>17,009</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,012,945</b>	<b>11,554,603</b>
Net Administrative/OBMP Expenses	(199,193)	(1,433,804)								
Allocate Net Admin Expenses To Pools	199,193		148,492	43,068	7,633				-	
Allocate Net OBMP Expenses To Pools		899,308	685,405	194,442	19,460				-	
Allocate Debt Service to App Pool		534,496	534,496						-	
Allocate Basin Recharge to App Pool		-	-						-	
Agricultural Expense Transfer*			362,146	(362,146)					-	
<b>Total Expenses</b>			<b>1,795,729</b>	<b>-</b>	<b>44,102</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,012,945</b>	<b>11,554,603</b>
<b>Net Administrative Income</b>			<b>(1,795,729)</b>	<b>-</b>	<b>(44,102)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(1,839,831)</b>	<b>(2,546,648)</b>
<b>Other Income/(Expense)</b>										
Replenishment Water Assessments						-			-	0
Desalter Replenishment Obligation						-			-	0
Exhibit "G" Non-Ag Pool Water			-						-	0
RTS Charges from IEUA						(38,550)			(38,550)	0
Interest Revenue			2,029	589	104	-			2,722	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
Other Post-Employment Benefits (OPEB)								-	-	0
Refund-Excess Reserves									-	0
Refund-Recharge Debt									-	0
Funding To/(From) Reserves									-	0
<b>Net Other Income/(Expense)</b>			<b>2,029</b>	<b>589</b>	<b>104</b>	<b>(38,550)</b>	<b>-</b>	<b>-</b>	<b>(35,828)</b>	<b>0</b>
<b>Net Transfers To/(From) Reserves</b>		<b>(1,875,659)</b>	<b>(1,793,700)</b>	<b>589</b>	<b>(43,998)</b>	<b>(38,550)</b>	<b>-</b>	<b>-</b>	<b>(1,875,659)</b>	<b>(2,546,648)</b>
<b>Net Assets, July 1, 2020</b>			<b>7,802,192</b>	<b>515,498</b>	<b>107,943</b>	<b>(6,182)</b>	<b>43,169</b>	<b>(443,445)</b>	<b>8,019,175</b>	
<b>Net Assets, End of Period</b>			<b>6,008,492</b>	<b>516,087</b>	<b>63,945</b>	<b>(44,732)</b>	<b>43,169</b>	<b>(443,445)</b>	<b>6,143,517</b>	<b>6,143,517</b>
<b>18/19 Assessable Production</b>			<b>75,114,142</b>	<b>21,785,871</b>	<b>3,860,993</b>				<b>100,761,006</b>	
<b>18/19 Production Percentages</b>			<b>74.547%</b>	<b>21.621%</b>	<b>3.832%</b>				<b>100.000%</b>	

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

N:\Administration\Meetings - Agendas & Minutes\2020\Staff Reports\10 - October\Advisory\20201015 - B3 Combining Schedule-August 2020.xlsx\Jul2020-Aug2020



# CHINO BASIN WATERMASTER

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

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15, 2020  
TO: Advisory Committee  
SUBJECT: Treasurer's Report of Financial Affairs for the Period August 1, 2020 through August 31, 2020 - Financial Report B4 (August 31, 2020)  
(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, 2020 through August 31, 2020.

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period August 1, 2020 through August 31, 2020 as presented.

Financial Impact: Funds disbursed were included in the FY 2020/21 "Amended" Watermaster Budget.

### Future Consideration

**Advisory Committee – October 15, 2020:** Receive and File

**Watermaster Board – October 22, 2020:** Receive and File (Normal Course of Business)

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### ACTIONS:

**Appropriative Pool – October 8, 2020:** Receive and file

**Agricultural Pool – October 8, 2020:** Receive and file

**Non-Agricultural Pool – October 9, 2020:** Moved unanimously to receive and file, without approval

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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, 2020 through August 31, 2020 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST); cash on deposit in trust with the County of San Bernardino as a result of the Cooperation and Reimbursement Agreement between Chino Basin Watermaster and County of San Bernardino dated May 25, 2017; 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 18.0, 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, 2020 THROUGH AUGUST 31, 2020**

Financial Report - B4

**DEPOSITORIES:**

Cash on Hand - Petty Cash			\$	500
Bank of America				
Governmental Checking-Demand Deposits	\$	430,580		
Zero Balance Account - Payroll		-		430,580
Trust Account - County of San Bernardino				845
Local Agency Investment Fund - Sacramento				7,666,483
<b>TOTAL CASH IN BANKS AND ON HAND</b>		<b>8/31/2020</b>		<b>\$ 8,098,408</b>
TOTAL CASH IN BANKS AND ON HAND		7/31/2020		8,540,234
<b>PERIOD INCREASE (DECREASE)</b>				<b>\$ (441,827)</b>

**CHANGE IN CASH POSITION DUE TO:**

Decrease/(Increase) in Assets: Accounts Receivable			\$	196,042
Assessments Receivable				-
Prepaid Expenses, Deposits & Other Current Assets				(10,963)
(Decrease)/Increase in Liabilities: Accounts Payable				(137,338)
Accrued Payroll, Payroll Taxes & Other Current Liabilities				9,482
Long Term Liabilities				2,350
Transfer to/(from) Reserves				(501,399)
<b>PERIOD INCREASE (DECREASE)</b>				<b>\$ (441,827)</b>

**SUMMARY OF FINANCIAL TRANSACTIONS:**

	Petty Cash	Govt'l Checking Demand	Zero Balance Account Payroll	Trust Account County of San Bernardino	Local Agency Investment Funds	Totals
Balances as of 7/31/2020	\$ 500	\$ 347,406	\$ -	\$ 845	\$ 8,191,483	\$ 8,540,234
Deposits	-	735,060	-	-	-	735,060
Transfers	-	(148,111)	(94,433)	-	-	(242,544)
Withdrawals/Checks	-	(503,776)	94,433	-	(525,000)	(934,342)
<b>Balances as of 8/31/2020</b>	<b>\$ 500</b>	<b>\$ 430,580</b>	<b>\$ -</b>	<b>\$ 845</b>	<b>\$ 7,666,483</b>	<b>\$ 8,098,408</b>
<b>PERIOD INCREASE OR (DECREASE)</b>	<b>\$ -</b>	<b>\$ 83,173</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ (525,000)</b>	<b>\$ (441,827)</b>

**CHINO BASIN WATERMASTER  
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD  
AUGUST 1, 2020 THROUGH AUGUST 31, 2020**

Financial Report - B4

**INVESTMENT TRANSACTIONS**

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
8/11/2020	Withdrawal		(525,000)				
<b>TOTAL INVESTMENT TRANSACTIONS</b>			<b>\$ (525,000)</b>	<b>\$0</b>			

\* The earnings rate for L.A.I.F. is a daily variable rate; 1.47% was the effective yield rate at the Quarter ended June 30, 2020.

**INVESTMENT STATUS  
August 31, 2020**

<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	\$ 7,666,483			
<b>TOTAL INVESTMENTS</b>	<b>\$ 7,666,483</b>			

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



# CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15, 2020  
TO: Advisory Committee  
SUBJECT: Budget vs. Actual Report for the Period July 1, 2020 through August 31, 2020 -  
Financial Report B5 (August 31, 2020)  
(Consent Calendar Item I.B.5.)

### SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2020 through August 31, 2020.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2020 through August 31, 2020 as presented.

Financial Impact: Funds disbursed were included in the FY 2020/21 "Amended" Watermaster Budget.

### Future Consideration

**Advisory Committee – October 15, 2020:** Receive and File

**Watermaster Board – October 22, 2020:** Receive and File (Normal Course of Business)

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### ACTIONS:

**Appropriative Pool – October 8, 2020:** Receive and file

**Agricultural Pool – October 8, 2020:** Receive and file

**Non-Agricultural Pool – October 9, 2020:** Moved unanimously to receive and file, without approval

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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, 2020 through August 31, 2020 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: General and Administrative Expenses; Optimum Basin Management Program Expenses; Project Expenses; and Other Income/Expenses. The Budget vs. Actual report has been created from Intuit QuickBooks Enterprise Solutions 18.0, 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 2020

Year-To-Date (YTD) for the two months ending August 31, 2020, all but five categories were at or below the projected budget. The categories over budget were the following: (1) Watermaster Legal Services (6070's) over budget by \$66,018 or 181.6% as a result of increased activities in the areas of court coordination (as a result of the July 10, 2020 court hearing); unbudgeted expenses for the Ely 3 Basin Investigation; and miscellaneous legal expenses during the last two month; (2) Advisory Committee Expenses (6200's) over budget by \$2,875 or 31.9% as a result of increased Watermaster staff time allocated to the Advisory Committee activities; (3) Watermaster Board expenses (6300's) over budget by \$14,449 or 51.2% as a result of increased Watermaster staff time allocated to the Board activities and increased pre-meeting and post-meeting activities regarding the special August 4, 2020 Board meeting and the August 25, 2020 Board meeting; (4) Appropriative Pool Administrative expenses (8300's) over budget by \$30,970 or 90.5% as a result of increased Watermaster staff time allocated to the Appropriative Pool activities and the increased legal activities by the Appropriative Pool attorney; and (5) Agricultural Pool Legal & Technical Services (8467) over budget by \$40,783 or 81.6% as a result of increased legal activities by the Agricultural Pool attorney.

For the majority of the expense categories within the Watermaster budget for FY 2020/21, the individual line-item budgets are divided into 12-monthly amounts and allocated accordingly. As the fiscal year progresses, the category listed above could level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$2,686,297 or 57.2% below the (YTD) Budgeted Expenses of \$4,699,242.

### PREVIOUSLY REPORTED ACTIONS (Descending Order)

#### July 2020:

During the month of July 2020, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$2,546,648.17 has been posted to the general ledger accounts. The total amount of \$2,546,648.17 consisted of \$1,693,292.20 from Capital Improvement Projects, \$430,584.49 from Engineering Services; \$375,271.48 from OBMP Activities, and \$47,500.00 from Administration Services. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The Amended Budget for FY 2020/21 is \$11,554,603.17 which includes \$2,546,648.17 for the prior years "Carry Over" funding. The Original Approved budget for FY 2020/21 of \$9,007,955 was adopted by the Watermaster Board on May 21, 2020 ( $\$9,007,955 + \$2,546,648.17 = \$11,554,603.17$ ).

## SALARIES EXPENSE

### CURRENT MONTH – AUGUST 2020

*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, 2020, the total (YTD) Watermaster salary expenses were \$8,850 or 2.5% below the (YTD) budgeted amount of \$348,793. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at ten Full-Time Equivalents (FTE's).

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. Watermaster staff can record time to a large number of activities but the five most used categories are as follows (1) General Administrative activities; (2) Paid Leaves of vacation, sick or holiday; (3) Pools, Advisory or Board Meeting attendance; (4) OBMP activities; and (5) OBMP Implementation Program Elements 1 through 9 activities.

When the FY 2020/21 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 allocations are tracking within budget.

The table summarizes the Year-To-Date (YTD) Actual Watermaster salary costs compared to the Year-To-Date (YTD) Budget as of August 31, 2020. 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 '20 - Aug '20 Actual	Jul '20 - Aug '20 Budget	\$ Over Budget	% of Budget	FY 2020/21 Annual Budget
<b>WM Salary Expense</b>					
6011 · WM Staff Salaries	177,336.42	193,547.00	-16,210.58	91.62%	1,118,265.00
6011.1 · WM Staff Salaries - Overtime	945.31	2,000.00	-1,054.69	47.27%	12,000.00
6011.4 · 457(f) NQDC Plan	4,700.40	5,832.00	-1,131.60	80.6%	34,986.00
6017 · Temporary Services	0.00	3,500.00	-3,500.00	0.0%	21,000.00
6201 · Advisory Committee - WM Staff Salaries	8,144.34	4,968.00	3,176.34	163.94%	28,703.00
6301 · Watermaster Board - WM Staff Salaries	13,931.10	7,917.00	6,014.10	175.96%	45,747.00
8301 · Appropriative Pool - WM Staff Salaries	22,538.51	7,344.00	15,194.51	306.9%	42,433.00
8401 · Agricultural Pool - WM Staff Salaries	6,325.22	6,245.00	80.22	101.29%	36,085.00
8501 · Non-Agricultural Pool - WM Staff Salaries	3,526.26	4,296.00	-769.74	82.08%	24,821.00
6901 · OBMP - WM Staff Salaries	39,142.32	23,687.00	15,455.32	165.25%	136,861.00
7101.1 · Production Monitor - WM Staff Salaries	8,972.31	15,250.00	-6,277.69	58.84%	88,113.00
7102.1 · In-line Meter - WM Staff Salaries	0.00	1,756.00	-1,756.00	0.0%	10,145.00
7103.1 · Grdwater Quality - WM Staff Salaries	7,756.32	10,363.00	-2,606.68	74.85%	59,868.00
7104.1 · Grdwater Level - WM Staff Salaries	13,201.45	10,563.00	2,638.45	124.98%	61,033.00
7107.1 · GrdLevel Monitoring - WM Staff Salaries	0.00	1,161.00	-1,161.00	0.0%	6,708.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	732.00	-732.00	0.0%	4,227.00
7108.11 · Prado Basin - WM Staff Salaries	0.00	1,105.00	-1,105.00	0.0%	6,387.00
7201 · Comp Recharge - WM Staff Salaries	13,072.70	8,688.00	4,384.70	150.47%	50,200.00
7301 · PE3&5 - WM Staff Salaries	0.00	3,061.00	-3,061.00	0.0%	17,686.00
7401 · PE4 - WM Staff Salaries	0.00	1,872.00	-1,872.00	0.0%	10,815.00
7501 · PE6&7 - WM Staff Salaries	2,733.40	1,020.00	1,713.40	267.98%	5,898.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	1,005.00	-1,005.00	0.0%	5,800.00
7601 · PE8&9 - WM Staff Salaries	83.58	4,076.00	-3,992.42	2.05%	23,547.00
<b>Subtotal WM Staff Costs</b>	<b>322,409.64</b>	<b>319,988.00</b>	<b>2,421.64</b>	<b>100.76%</b>	<b>1,851,328.00</b>
60185 · Vacation	6,069.28	14,481.00	-8,411.72	41.91%	86,888.00
60186 · Sick Leave	712.98	9,549.00	-8,836.02	7.47%	57,299.00
60187 · Holidays	10,751.14	4,775.00	5,976.14	225.16%	71,622.00
<b>Subtotal WM Paid Leaves</b>	<b>17,533.40</b>	<b>28,805.00</b>	<b>-11,271.60</b>	<b>60.87%</b>	<b>215,809.00</b>
<b>Total WM Salary Costs</b>	<b>339,943.04</b>	<b>348,793.00</b>	<b>-8,849.96</b>	<b>97.46%</b>	<b>2,067,137.00</b>

*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*

PREVIOUSLY REPORTED ACTIONS (Descending Order)

None

LEGAL SERVICES

BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH – AUGUST 2020

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 2020/21. 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 \$963,853.

As of August 31, 2020, 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 \$24,296 or 14.8% above the (YTD) budgeted amount of \$164,224.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's) as of August 31, 2020 was \$66,018 or 181.6% above the budgeted amount of \$36,362. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were the Court Coordination expenses (6071) over budget by \$16,836 or 263.9%; Personnel Matters (6073) over budget by \$3,863 or 85.8%; Miscellaneous (6078) which were over budget by \$42,775 or 268.6%; and the Ely Basin Investigation (6078.25) which were over budget by \$11,832 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 (6070's) which were under budget were the expenses for Rules and Regulations (6072) under budget by \$1,805 or 100.0%; Interagency Issues (6074) under budget by \$5,940 or 100.0%; and Party Status Maintenance expenses (6077) under budget by \$1,543 or 85.2%.

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, 2020 was \$623 or 1.9% above the budgeted amount of \$32,850. 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.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were below the budget for the month. As of August 31, 2020, the category of OBMP legal expenses were \$42,345 or 44.6% below the budgeted amount of \$95,012. The majority of expenses within this OBMP category were under budget (YTD), however, the OBMP Update expenses (6907.45) were over budget by \$33,754 or 187.2%.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of August 31, 2020 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 '20 - Aug '20 Actual	Jul '20 - Aug '20 Budget	\$ Over Budget	% of Budget	FY 2020/21 Annual Budget
<b>6070 · Watermaster Legal Services</b>					
6071 · BHFS Legal - Court Coordination	23,215.94	6,380.00	16,835.94	363.89%	38,300.00
6072 · BHFS Legal - Rules & Regulations	0.00	1,805.00	-1,805.00	0.0%	10,825.00
6073 · BHFS Legal - Personnel Matters	8,362.80	4,500.00	3,862.80	185.84%	9,900.00
6074 · BHFS Legal - Interagency Issues	0.00	5,940.00	-5,940.00	0.0%	35,640.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	267.30	1,810.00	-1,542.70	14.77%	10,850.00
6078 · BHFS Legal - Miscellaneous (Note 1)	58,702.16	15,927.00	42,775.16	368.57%	95,550.00
6078.13 · BHFS - Assessment Packages-Updates	0.00	0.00	0.00	0.0%	0.00
6078.25 · BHFS - Ely # Basin Investigation	11,831.84	0.00	11,831.84	100.0%	0.00
<b>Total 6070 · Watermaster Legal Services</b>	<b>102,380.04</b>	<b>36,362.00</b>	<b>66,018.04</b>	<b>281.56%</b>	<b>201,065.00</b>
<b>6275 · BHFS Legal - Advisory Committee</b>	<b>3,742.20</b>	<b>3,960.00</b>	<b>-217.80</b>	<b>94.5%</b>	<b>21,780.00</b>
<b>6375 · BHFS Legal - Board Meeting</b>	<b>22,113.00</b>	<b>14,040.00</b>	<b>8,073.00</b>	<b>157.5%</b>	<b>77,220.00</b>
<b>6375.1 · BHFS Legal - Board Workshop(s)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>12,038.00</b>
<b>8375 · BHFS Legal - Appropriative Pool</b>	<b>2,628.45</b>	<b>4,950.00</b>	<b>-2,321.55</b>	<b>53.1%</b>	<b>27,225.00</b>
<b>8475 · BHFS Legal - Agricultural Pool</b>	<b>2,628.45</b>	<b>4,950.00</b>	<b>-2,321.55</b>	<b>53.1%</b>	<b>27,225.00</b>
<b>8575 · BHFS Legal - Non-Ag Pool</b>	<b>2,361.15</b>	<b>4,950.00</b>	<b>-2,588.85</b>	<b>47.7%</b>	<b>27,225.00</b>
<b>Total BHFS Legal Services</b>	<b>33,473.25</b>	<b>32,850.00</b>	<b>623.25</b>	<b>101.9%</b>	<b>192,713.00</b>
<b>6907.3 · WM Legal Counsel</b>					
6907.31 · Archibald South Plume	0.00	2,187.00	-2,187.00	0.0%	13,125.00
6907.32 · Chino Airport Plume	0.00	2,187.00	-2,187.00	0.0%	13,125.00
6907.33 · Desalter/Hydraulic Control	0.00	7,537.00	-7,537.00	0.0%	45,225.00
6907.34 · Santa Ana River Water Rights	0.00	2,713.00	-2,713.00	0.0%	16,275.00
6907.36 · Santa Ana River Habitat	0.00	7,891.00	-7,891.00	0.0%	47,350.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	7,225.00	-7,225.00	0.0%	43,350.00
6907.39 · Recharge Master Plan	133.65	5,425.00	-5,291.35	2.46%	32,550.00
6907.40 · Storage Agreements	0.00	12,783.00	-12,783.00	0.0%	76,700.00
6907.41 · Prado Basin Habitat Sustainability	0.00	2,709.00	-2,709.00	0.0%	16,250.00
6907.42 · Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6907.44 · SGMA Compliance	0.00	1,809.00	-1,809.00	0.0%	10,850.00
6907.45 · OBMP Update	51,787.35	18,033.00	33,754.35	287.18%	108,200.00
6907.46 · Upper SAR Integrated Model	0.00	0.00	0.00	0.0%	0.00
6907.47 · 2020 Safe Yield Reset	746.10	14,433.00	-13,686.90	5.17%	86,600.00
6907.48 · Ely Basin Investigation	0.00	4,755.00	-4,755.00	0.0%	28,525.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,325.00	-5,325.00	0.0%	31,950.00
<b>Total 6907 · WM Legal Counsel</b>	<b>52,667.10</b>	<b>95,012.00</b>	<b>-42,344.90</b>	<b>55.43%</b>	<b>570,075.00</b>
<b>Total Brownstein, Hyatt, Farber, Schreck Costs</b>	<b>188,520.39</b>	<b>164,224.00</b>	<b>24,296.39</b>	<b>114.8%</b>	<b>963,853.00</b>

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) Review process and criteria for SGMA reporting; (10) MVWD SCADA Agreement and installation; (11) Angelica Corporation Bankruptcy matter; (12) NRG/GENON Bankruptcy matter; (13) Pomona extensometer project, CEQA review and compliance; (14) Desalter Replenishment obligations, assessment methodologies, and ongoing issues; (15) Master Cost Sharing Agreement with IEUA; (16) Estimation and adoption of an evaporative loss policy for Recharge; (17) CalMat intervention; (18) Angelica's water rights transfer; (19) Exhibit "G" rate issues; (20) Right of Entry Agreements for various locations; (21) Assessment Packages-Updates and Review; and (22) Miscellaneous legal research on current and pending issues.

PREVIOUSLY REPORTED ACTIONS (Descending Order)  
None

**OBMP ENGINEERING SERVICES AND LEGAL COSTS**

*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 2020

Reviewing in total the OBMP Engineering Services and Legal Costs (consolidating the five categories of OBMP Watermaster Staff and SAWPA, OBMP Engineering Services, OBMP Legal Costs, OBMP Update Costs, and OBMP Other Expenses) for the two months ending August 31, 2020, the actual expenses of \$195,406 were below the budgeted amount of \$372,565 by \$177,159 or 47.6%. For a detailed discussion, the following is provided.

For August 31, 2020, the accounts 6901-6903 (Optimum Basin Mgmt. Program) section was above the Year-To-Date (YTD) budget by \$15,455 or 41.6%. 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 Administrative, OBMP, or Implementation Project categories. Recently, Watermaster staff spent more time on specific OBMP related areas as budgeted. As a result, Watermaster staff allocated more actual time to the OBMP project as budgeted, which resulted in an over-budget variance of \$15,455 or 65.2%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2020/21 Basin Monitoring Program Task Force Contribution which was budgeted at \$13,433 and actual expenses were \$13,433 as of August 31, 2020.

For August 31, 2020, the accounts 6906 (Optimum Basin Mgmt. Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$146,266 or 66.2%. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts which were over budget are as follows: Water Rights Compliance Reporting expenses (6906.22) which were over budget by \$6,398 or 156.4%; and Prepare Annual Reports expenses (6906.81) which were over budget by \$1,503 or 63.1%.

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, some individual line item activities were above the budget by \$33,754 while some other line item activities were below the budget by \$76,099. Above the budget line item were the OBMP Update expenses of \$33,754. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$2,187; the Chino Airport Plume of \$2,187; the Desalter/Hydraulic Control of \$7,537; Santa Ana River Habitat of \$2,713; the Santa Ana River Habitat of \$7,891; the Regional Water Quality Control Board of \$7,225; the Recharge Master Plan expenses of \$5,291; Storage Agreements of \$12,783; the Prado Basin Habitat Sustainability of \$2,709; SGMA Compliance of \$1,809; the 2020 Safe Yield Reset of \$13,687; the Ely Basin Investigation expenses of \$4,755; and the WM Unanticipated legal expenses of \$5,325. For the two months ended August 31, 2020, the overall cumulative (YTD) budget was \$95,012 and the actual (BHFS) legal expenses totaled \$52,667 which resulted in an under-budget variance of \$42,345 or 44.6%.

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 original budget was \$225,500 and had a balance remaining in the fund of \$18,221.48 at year-end June 30, 2020. The Carry-Over amount of \$18,221.48 has a remaining balance as of August 31, 2020 of \$2,594 or 14.2%.

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, 2020, this category of expenses was \$1,410 or 99.5% below the budgeted amount of \$1,416.

Overall, the Optimum Basin Management Program (OBMP) category was \$195,406 compared to a (YTD) budget of \$372,565 for an under budget of \$177,159 or 47.6% as of August 31, 2020.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of August 31, 2020 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-

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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:

	<u>Jul '20 - Aug '20</u> <u>Actual</u>	<u>Jul '20 - Aug '20</u> <u>Budget</u>	<u>\$ Over Budget</u>	<u>% of Budget</u>	<u>FY 2020/21</u> <u>Annual Budget</u>
<b>6900 · Optimum Basin Mgmt Plan</b>					
6901 · WM Staff Salaries	39,142.32	23,687.00	15,455.32	165.25%	136,861.00
6903 · OBMP SAWPA Group	13,433.00	13,433.00	0.00	100.0%	13,433.00
<b>Total 6901-6903 · OBMP WM Staff/SAWPA</b>	<b>52,575.32</b>	<b>37,120.00</b>	<b>15,455.32</b>	<b>141.64%</b>	<b>150,294.00</b>
<b>6906 · OBMP Engineering Services</b>					
6906.1 · OBMP - Watermaster Model Update	0.00	11,146.00	-11,146.00	0.0%	66,877.00
6906.15 · Integrated Model Mtgs. - IEUA Costs	880.75	3,533.00	-2,652.25	24.93%	21,200.00
6906.21 · State of the Basin Report	0.00	27,163.00	-27,163.00	0.0%	162,983.00
6906.22 · Water Rights Compliance Reporting	10,489.85	4,092.00	6,397.85	256.35%	24,552.00
6906.23 · SGMA Reporting Requirements	0.00	2,330.00	-2,330.00	0.0%	13,970.00
6906.24 · Compliance - SB88 and SWRCB	0.00	2,023.00	-2,023.00	0.0%	12,140.00
6906.26 · 2019 OBMP Update	16,086.90	54,419.00	-38,332.10	29.56%	95,330.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	14,380.10	17,643.00	-3,262.90	81.51%	105,860.00
6906.32 · OBMP - Other General Meetings	6,920.30	12,638.00	-5,717.70	54.76%	75,821.00
6906.71 · OBMP - Data Requests - CBWM Staff	12,611.20	22,031.00	-9,419.80	57.24%	132,188.00
6906.72 · OBMP - Data Requests - Non CBWM	967.45	8,189.00	-7,221.55	11.81%	49,136.00
6906.73 · OBMP - Safe Yield Recalculation	5,751.56	10,880.00	-5,128.44	52.86%	65,280.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	60.90	12,743.00	-12,682.10	0.48%	76,463.00
6906.81 · Prepare Annual Reports	3,886.35	2,383.00	1,503.35	163.09%	14,296.00
6906 · OBMP Engineering Services - Other	2,494.50	29,583.00	-27,088.50	8.43%	61,396.00
<b>Total 6906 · OBMP Engineering Services</b>	<b>74,529.86</b>	<b>220,796.00</b>	<b>-146,266.14</b>	<b>33.76%</b>	<b>977,492.00</b>
<b>6907 · OBMP Legal Fees</b>					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	2,187.00	-2,187.00	0.0%	13,125.00
6907.32 · Chino Airport Plume	0.00	2,187.00	-2,187.00	0.0%	13,125.00
6907.33 · Desalter/Hydraulic Control	0.00	7,537.00	-7,537.00	0.0%	45,225.00
6907.34 · Santa Ana River Water Rights	0.00	2,713.00	-2,713.00	0.0%	16,275.00
6907.36 · Santa Ana River Habitat	0.00	7,891.00	-7,891.00	0.0%	47,350.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	7,225.00	-7,225.00	0.0%	43,350.00
6907.39 · Recharge Master Plan	133.65	5,425.00	-5,291.35	2.46%	32,550.00
6907.40 · Storage Agreements	0.00	12,783.00	-12,783.00	0.0%	76,700.00
6907.41 · Prado Basin Habitat Sustainability	0.00	2,709.00	-2,709.00	0.0%	16,250.00
6907.44 · SGMA Compliance	0.00	1,809.00	-1,809.00	0.0%	10,850.00
6907.45 · OBMP Update	51,787.35	18,033.00	33,754.35	287.18%	108,200.00
6907.47 · 2020 Safe Yield Reset	746.10	14,433.00	-13,686.90	5.17%	86,600.00
6907.48 · Ely Basin Investigation	0.00	4,755.00	-4,755.00	0.0%	28,525.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	5,325.00	-5,325.00	0.0%	31,950.00
<b>Total 6907 · WM Legal Counsel</b>	<b>52,667.10</b>	<b>95,012.00</b>	<b>-42,344.90</b>	<b>55.43%</b>	<b>570,075.00</b>
<b>Total 6907 · OBMP Legal Fees</b>	<b>52,667.10</b>	<b>95,012.00</b>	<b>-42,344.90</b>	<b>55.43%</b>	<b>570,075.00</b>
<b>6908 · OBMP Updates</b>					
6908.1 · 2020 OBMP Update-Dodson & Assoc.	15,627.50	18,221.48	-2,593.98	85.76%	18,221.48
<b>Total 6908 · OBMP Updates</b>	<b>15,627.50</b>	<b>18,221.48</b>	<b>-2,593.98</b>	<b>85.76%</b>	<b>18,221.48</b>
<b>6909 · OBMP Other Expenses</b>					
6909.1 · OBMP Meetings	6.40	250.00	-243.60	2.56%	1,500.00
6909.3 · Other OBMP Expenses	0.00	333.00	-333.00	0.0%	2,000.00
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
<b>Total 6909 · OBMP Other Expenses</b>	<b>6.40</b>	<b>1,416.00</b>	<b>-1,409.60</b>	<b>0.45%</b>	<b>8,500.00</b>
<b>Total 6900 · Optimum Basin Mgmt Plan</b>	<b>195,406.18</b>	<b>372,565.48</b>	<b>-177,159.30</b>	<b>52.45%</b>	<b>1,724,582.48</b>

PREVIOUSLY REPORTED ACTIONS (Descending Order)  
 None

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ENGINEERING SERVICES - OBMP IMPLEMENTATION PROJECTS COSTS  
WILDERMUTH ENVIRONMENTAL, INC.

CURRENT MONTH – AUGUST 2020

As of August 31, 2020, the total (YTD) Engineering Services expenses were \$594,127 or 60.4% below the (YTD) budget amount of \$902,988. The OBMP Implementation Projects (consolidated accounts 7100's – 7700's) were all under budget as of August 31, 2020, except for the Hydraulic Control-PBHSP expenses (7108.41) which were over budget by \$1,960 or 100.0%; and the PE4-Engineering expenses (7402) which were over budget by \$19,953 or 78.6%.

Wildermuth Environmental, Inc. provides Watermaster an 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 (for the months July 2020 - September 2020) is scheduled to be produced by Wildermuth Environmental, Inc. and distributed to Watermaster during the month of October 2020.

The table listed below summarized the Year-To-Date (YTD) Actual Wildermuth Environmental, Inc., (WEI) and other Engineering costs compared to the Year-To-Date (YTD) Budget as of August 31, 2020. 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 '20 - Aug '20	Jul '20 - Aug '20			FY 2020/21
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6906 · OBMP Engineering Services - Other	2,494.50	29,583.00	-27,088.50	8.43%	61,396.00
6906.1 · OBMP - Watermaster Model Update	0.00	11,146.00	-11,146.00	0.0%	66,877.00
6906.15 · Integrated Model Mtgs-IEUA Cost	880.75	3,533.00	-2,652.25	24.93%	21,200.00
6906.17 · Planning Study Analysis	0.00	0.00	0.00	0.0%	0.00
6906.18 · Prado Dam FS/EIS/EIR-50% IEUA	0.00	0.00	0.00	0.0%	0.00
6906.21 · State of the Basin Report	0.00	27,163.00	-27,163.00	0.0%	162,983.00
6906.22 · Water Rights Compliance Reporting	10,489.50	4,092.00	6,397.50	256.34%	24,552.00
6906.23 · SGMA Reporting Requirements	0.00	2,330.00	-2,330.00	0.0%	13,970.00
6906.24 · Compliance - SB88 and SWRCB	0.00	2,023.00	-2,023.00	0.0%	12,140.00
6906.26 · 2019 OBMP Update	16,086.90	54,419.00	-38,332.10	29.56%	95,330.00
6906.27 · HCP Meetings/Technical Review-IEUA Cos	0.00	0.00	0.00	0.0%	0.00
6906.28 · Agriculture Prod. & Estimation	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	14,380.10	17,643.00	-3,262.90	81.51%	105,860.00
6906.32 · OBMP - Other General Meetings	6,920.30	12,638.00	-5,717.70	54.76%	75,821.00
6906.71 · OBMP - Data Requests - CBWM Staff	12,611.20	22,031.00	-9,419.80	57.24%	132,188.00
6906.72 · OBMP - Data Requests - Non CBWM	967.45	8,189.00	-7,221.55	11.81%	49,136.00
6906.73 · OBMP - Safe Yield Recalculation	5,751.56	10,880.00	-5,128.44	52.86%	65,280.00
6906.74 · OBMP - Mat'l Physical Injury Requests	60.90	12,743.00	-12,682.10	0.48%	76,463.00
6906.76 · County Extraction Well-Modeling	0.00	0.00	0.00	0.0%	0.00
6906.81 · Prepare Annual Reports	3,886.35	2,383.00	1,503.35	163.09%	14,296.00
6906.90 · OBMP - 2018 RMPU Master Update	0.00	0.00	0.00	0.0%	0.00
7103.3 · Grdwtr Qual-Engineering	20,385.79	31,507.00	-11,121.21	64.7%	189,038.00
7103.5 · Grdwtr Qual-Lab Svcs	2,789.00	11,375.00	-8,586.00	24.52%	68,252.00
7104.3 · Grdwtr Level-Engineering	19,044.68	33,337.00	-14,292.32	57.13%	200,022.00
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	0.00	1,333.00	-1,333.00	0.0%	8,000.00
7107.2 · Grd Level-Engineering	5,035.10	41,492.00	-36,456.90	12.14%	111,952.00
7107.3 · Grd Level-SAR Imagery	73,000.00	96,002.00	-23,002.00	76.04%	159,752.00
7107.6 · Grd Level-Contract Svcs	5,215.44	52,492.00	-47,276.56	9.94%	90,142.00
7107.8 · Grd Level-Capital Equipment	0.00	2,029.00	-2,029.00	0.0%	12,170.00
7108.31 · Hydraulic Control-PBHSP	271.20	11,563.00	-11,291.80	2.35%	69,376.00
7108.4 · Hydraulic Control-Lab Svcs	0.00	0.00	0.00	0.0%	0.00
7108.41 · Hydraulic Control-PBHSP	1,960.00	0.00	1,960.00	100.0%	0.00
7108.6 · Hydraulic Control-Outside Professionals	0.00	833.00	-833.00	0.0%	5,000.00
7109.3 · Recharge & Well - Engineering	1,627.20	5,419.00	-3,791.80	0.0%	32,512.00
7110.3 · Ag Production & Estimation - Eng. Serv.	0.00	3,843.00	-3,843.00	0.0%	23,060.00
7111.3 · Data Collection & Mgmt. - Eng. Services	0.00	3,283.00	-3,283.00	0.0%	19,696.00
7202.2 · Comp Recharge-Engineering Services	2,340.10	49,093.00	-46,752.90	4.77%	294,560.00
7206.1 · SB88 Specs-Ensure Compliance	5,913.45	64,932.58	-59,019.13	9.11%	55,793.58
7210 · OBMP - 2023 RMPU	0.00	7,502.00	-7,502.00	0.0%	45,012.00
7303 · PE3&5-Engineering - Other	429.40	3,631.00	-3,201.60	11.83%	21,788.00
7402 · PE4-Engineering	45,326.05	25,373.00	19,953.05	178.64%	130,524.00
7402.10 · PE4-MZ1 Pomona Project	34,845.95	136,511.91	-101,665.96	25.53%	302,992.00
7403 · PE4-Contract Svcs	0.00	0.00	0.00	0.0%	0.00
7502 · PE6&7-Engineering	5,657.20	18,230.00	-12,572.80	31.03%	109,380.00
7510 · PE6&7-IEUA Salinity Mgmt. Plan	9,859.78	69,236.00	-59,376.22	14.24%	118,467.00
7511 · PE6&7-SAWBMP Task Force-50% IEUA	631.20	4,305.00	-3,673.80	14.66%	25,829.00
7512 · PE6&7-Recomputation WQ-50% IEUA	0.00	0.00	0.00	0.0%	0.00
7602 · PE8&9-Engineering	0.00	0.00	0.00	0.0%	0.00
7610 · PE8&9-Support 2020 Mgmt. Plan	0.00	7,203.00	-7,203.00	0.0%	43,220.00
<b>Total Engineering Services Costs</b>	<b>308,861.05</b>	<b>902,988.49</b>	<b>-594,127.44</b>	<b>34.2%</b>	<b>3,124,029.58 *</b>

\* Wildermuth and Subcontractor Engineering Budget of \$2,737,082 plus Carryover Funds from FY 2019/20 of \$386,947.58  
 Carryover Funds from FY 2019/20 of \$386,947.58 = \$23,220 (6906); \$46,236 (6906.26); \$27,400 (7107.2); \$74,752 (7107.3); \$44,962 (7107.6);  
 \$55,793.58 (7206.1); \$4,342 (7402); \$50,852 (7402.10); and \$59,390 (7510)

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PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2020:

The breakdown of the total Task Order amount of \$2,737,082 for the FY 2020/21 Engineering Services includes direct labor costs for Wildermuth Environmental, Inc. (90.6%) at \$2,480,970 along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (9.4%) at \$256,112.

The approved "Original" Engineering Services budget of \$2,737,082 was increased by "Carry Over" funding in the amount of \$386,947.58 to the "Amended" amount of \$3,124,029.58 for FY 2020/21 as provided in the Engineering Services Task Order. All of the "Carry Over" funding is for projects or activities that have bridged previous fiscal years and are expected to be completed in the FY 2020/21 timeframe or future years.

The explanations regarding the Carry-Over amount of \$386,947.58 from FY 2019/20 to the FY 2020/21 budget is provided as follows:

1. Agriculture Production and Estimation (Account 6906): \$23,220. WEI requested this carryover budget to complete the Agriculture Production and Estimation work that was originally scheduled to be performed in FY 2019/20, but was pushed to FY 2020/21 as per the FY 2020/21 budget.
2. 2020 OBMP Update (Account 6906.26): \$46,236. The FY2020/21 budget assumed the drafting sessions for the OBMP Implementation Plan (IP) would be completed in FY 2019/20. WEI requested to carryover the unspent portion of the FY2019/20 revised budget to complete the IP drafting sessions.
3. Ground Level – Engineering Services (Account 7107.2): \$27,400. The City of Chino Hills did not perform the long-term pumping and injection tests included in the FY2019/20 budget as recommended by the Ground-Level Monitoring Committee. WEI requested this carryover to support the logistics, data collection, and analysis of data from the long-term pumping and injection tests, if these tests are performed by the City in FY2020/21.
4. Ground Level – SAR Imagery (Account 7107.3): \$74,752. WEI requested this carryover budget associated with the purchase of satellite data and the processing of the data for displacement measurement. The work was completed in FY2019/20, but the invoice has yet to be received from the subcontractor.
5. Ground Level – Contract Services (Account 7107.6): \$44,962. WEI requested this carryover budget for the Ground Level surveyor to finalize the processing of the data collected in FY2019/20. These delays sometimes occur because the surveying occurs near the end of the fiscal year.
6. GRCC & IEUA – SB88 Specification to Ensure Compliance with Regulations (Account 7206.1): Watermaster's portion is \$55,793.58 (50% GRCC budget and 50% IEUA). WEI requested this carryover budget to finalize the SB88 work in FY 2020/21, including the preparation of a technical memorandum summarizing the results. This work was delayed due to the timing of IEUA's response to data requests and the limitation of visiting recharge basins with IEUA staff during COVID-19.
7. OBMP – Engineering Services – MZ1 (Account 7402): \$4,342. WEI requested this carryover budget to finalize the figures for the Annual Report of the Ground-Level Monitoring Committee which will be published in FY2020/21. It is typical for this work to be carried over due to delays in receiving data from land subsidence subcontractors.
8. OBMP – Engineering Services – Northwest MZ1 (Account 7402.1): \$50,852. WEI requested this carryover budget to finalize the implementation of the Northwest MZ-1 monitoring program, including the final setup and testing of monitoring equipment at the Pomona Extensometer which was delayed due to COVID-19.

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9. IEUA – Update Recycled Water Permit – Salinity (Account 7510): \$155,924 (Watermaster's portion is \$59,390). WEI requested this carryover budget to continue the Updated Recycled Water Permit with IEUA. This work is being cost shared with IEUA and was originally scoped to be finished in FY 2019/20 and now is scheduled to be completed in December 2020.

## 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.
  - 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'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*

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.

	Wildermuth Environmental, Inc.	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster
Jul. 2020 - Aug. 2020	\$ 542.40	\$ (271.20)	\$ -	\$ 271.20
<b>Totals</b>	<b>\$ 542.40</b>	<b>\$ (271.20)</b>	<b>\$ -</b>	<b>\$ 271.20</b>
	7108.31	7108.31	7108.31	
<b>Maximum Costs</b>	<b>\$ 148,752.00</b>	<b>\$ 74,376.00</b>	<b>\$ 74,376.00</b>	<b>\$ 74,376.00</b>

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, 2020.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2020:

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 2020/21 annual administrative fee invoice was issued on July 1, 2020 in the amount of \$173,102.47 under invoice number 2020-07-CUP. Payment in the amount of \$173,102.47 was received and deposited on August 4, 2020.

The 1<sup>st</sup> quarter Basin Recharge O&M expense (account 7206) in the amount of \$362,142.76 was recorded during the month of July, along with the FY 2020/21 annual debt service expense (account 7690.1) of \$534,496 (both expenses payable directly to IEUA).

"CARRY OVER" FUNDING  
 BACKGROUND OF "CARRY OVER" FUNDING

CURRENT MONTH – AUGUST 2020

As of August 31, 2020, the total (YTD) amount remaining of the "Carried Over" funding is \$2,374,198.06 (\$2,546,648.17 - \$172,450.11 = \$2,374,198.06).

The following details are 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*

"Carried Over" Expenses At June 30, 2020

Other Office Equipment - Boardroom Upgrades	\$	40,000.00	A	6038	FY 2019/20	ADMIN
Blomquist Report - Update	\$	7,500.00	B	6061.6	FY 2017/18	ADMIN
Meter Installation - New Meter Installation	\$	175,400.00	C	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	181,650.00	D	7102.8	FY 2018/19	OBMP
2020 OBMP Update - Tom Dodson & Associates	\$	18,221.48	E	6908.1	FY 2019/20	OBMP
OBMP Engineering Services	\$	23,220.00	F	6906	FY 2019/20	ENG
2020 OBMP Update - Engineering	\$	46,236.00	G	6906.26	FY 2019/20	ENG
Ground Level Monitoring - Engineering	\$	27,400.00	H	7107.2	FY 2019/20	ENG
Ground Level Monitoring - SAR Imagery	\$	74,752.00	I	7107.3	FY 2019/20	ENG
Ground Level Monitoring - Contract Services	\$	44,962.00	J	7107.6	FY 2019/20	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	55,793.58	K	7206.1	FY 2019/20	ENG
PE4 - OBMP - Engineering	\$	4,342.00	L	7402	FY 2019/20	ENG
PE4 - Northwest MZ-1 Area Project	\$	43,636.91	M	7402.1	FY 2018/19	ENG
PE4 - Northwest MZ-1 Area Project	\$	50,852.00	M	7402.1	FY 2019/20	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	59,390.00	N	7510	FY 2019/20	ENG
RMPU Amendment (TO #1)	\$	56,794.57	O	7690.15	FY 2016/17	PROJ
East Declez Basin (TO #1)	\$	1,171.33	P	7690.16	FY 2016/17	PROJ
GWR SCADA Upgrades (TO #4)	\$	7,025.00	Q	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$	38,675.00	Q	7690.61	FY 2015/16	PROJ
GWR SCADA Upgrades (TO #4)	\$	58,510.50	Q	7690.61	FY 2019/20	PROJ
Upper Santa Ana River HCP (TO #7)	\$	15,062.88	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	5,000.00	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	238,646.90	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects - Form T-18-07-01	\$	1,272,406.02	T	7690.9	FY 2017/18	PROJ
<b>Total Balance, July 1, 2020</b>	<b>\$</b>	<b>2,546,648.17</b>				



"Carried Over" Balance, July 1, 2019	\$					2,546,648.17
Less: (Invoices Received To Date FY 2019/20)						
Other Office Equipment - Boardroom Upgrades	\$	-	A	6038	FY 2019/20	ADMIN
Blomquist Report - Update	\$	-	B	6061.6	FY 2017/18	ADMIN
Meter Installation - New Meter Installation	\$	-	C	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	-	D	7102.8	FY 2018/19	OBMP
2020 OBMP Update - Tom Dodson & Associates	\$	(15,627.50)	E	6908.1	FY 2019/20	OBMP
OBMP Engineering Services	\$	(2,493.80)	F	6906 <sup>2</sup>	FY 2019/20	ENG
2020 OBMP Update - Engineering	\$	(16,086.90)	G	6906.26 <sup>3</sup>	FY 2019/20	ENG
Ground Level Monitoring - Engineering	\$	(5,035.10)	H	7107.2 <sup>4</sup>	FY 2019/20	ENG
Ground Level Monitoring - SAR Imagery	\$	(73,000.00)	I	7107.3 <sup>5</sup>	FY 2019/20	ENG
Ground Level Monitoring - Contrat Services	\$	(5,215.44)	J	7107.6 <sup>6</sup>	FY 2019/20	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	(5,913.45)	K	7206.1 <sup>7</sup>	FY 2019/20	ENG
PE4 - OBMP - Engineering	\$	(4,342.00)	L	7402 <sup>8</sup>	FY 2019/20	ENG
PE4 - Northwest MZ-1 Area Project	\$	(34,845.95)	M	7402.1	FY 2018/19	ENG
PE4 - Northwest MZ-1 Area Project	\$	-	M	7402.1 <sup>9</sup>	FY 2019/20	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	(9,889.97)	N	7510 <sup>^</sup>	FY 2019/20	ENG
RMPU Amendment (TO #1)	\$	-	O	7690.15	FY 2016/17	PROJ
East Declez Basin (TO #1)	\$	-	P	7690.16	FY 2016/17	PROJ
GWR SCADA Upgrades (TO #4)	\$	-	Q	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$	-	Q	7690.61	FY 2015/16	PROJ
GWR SCADA Upgrades (TO #4)	\$	-	Q	7690.61	FY 2019/20	PROJ
Upper Santa Ana River HCP (TO #7)	\$	-	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	-	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	-	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects - Form T-18-07-01	\$	-	T	7690.9 <sup>1</sup>	FY 2017/18	PROJ
<b>Updated Balance as of August 31, 2020</b>						<b>\$ 2,374,198.06</b>

<sup>1</sup> Project completed with funds available for (1) reallocation to another project, (2) paydown debt service, (3) maintain as extra funding, or (4) distribution to the Appropriative Pool as a credit through the Assessment invoicing.

<sup>2</sup> Engineering work not completed in FY 2019/20. Work required to finish the Agriculture Production and estimation work.

<sup>3</sup> Engineering work not completed in FY 2019/20. Work required to finish the 2020 OBMP Update work scheduled for FY 2019/20.

<sup>4</sup> Engineering work not completed in FY 2019/20. Work required to perform GL surveys for the long-term pumping test and injection test.

<sup>5</sup> Engineering work not completed in FY 2019/20. Carry-over funding required to complete the InSAR data purchase.

<sup>6</sup> Engineering work not completed in FY 2019/20. Work required by the GL surveyor to finalize processing data.

<sup>7</sup> Engineering work not completed in FY 2019/20. Work required to finalize the SB88 Specification to ensure compliance.

<sup>8</sup> Engineering work not completed in FY 2019/20. Work required to finalize data analysis and reporting.

<sup>9</sup> Engineering work not completed in FY 2019/20. Work required to finalize implementation of the Northwest MZ-1 monitoring program.

<sup>^</sup> Engineering work not completed in FY 2019/20. Work required to finalize the FY 2019/20 portion of the Salinity project.

Updated Balance as of August 31, 2020

Other Office Equipment - Boardroom Upgrades	\$	40,000.00	A	6038	FY 2019/20	ADMIN
Blomquist Report - Update	\$	7,500.00	B	6061.6	FY 2017/18	ADMIN
Meter Installation - New Meter Installation	\$	175,400.00	C	7102.65	FY 2018/19	OBMP
Meter Installation - Calibration and Testing	\$	181,650.00	D	7102.8	FY 2018/19	OBMP
2020 OBMP Update - Tom Dodson & Associates	\$	2,593.98	E	6908.1	FY 2019/20	OBMP
OBMP Engineering Services	\$	20,726.20	F	6906	FY 2019/20	ENG
2020 OBMP Update - Engineering	\$	30,149.10	G	6906.26	FY 2019/20	ENG
Ground Level Monitoring - Engineering	\$	22,364.90	H	7107.2	FY 2019/20	ENG
Ground Level Monitoring - SAR Imagery	\$	1,752.00	I	7107.3	FY 2019/20	ENG
Ground Level Monitoring - Contrat Services	\$	39,746.56	J	7107.6	FY 2019/20	ENG
SB88-Specs-Ensure Compliance-50% IEUA	\$	49,880.13	K	7206.1	FY 2019/20	ENG
PE4 - OBMP - Engineering	\$	-	L	7402	FY 2019/20	ENG
PE4 - Northwest MZ-1 Area Project	\$	8,790.96	M	7402.1	FY 2018/19	ENG
PE4 - Northwest MZ-1 Area Project	\$	50,852.00	M	7402.1	FY 2019/20	ENG
IEUA - Update Recycle Water Permit - Salinity	\$	49,500.03	N	7510	FY 2019/20	ENG
RMPU Amendment (TO #1)	\$	56,794.57	O	7690.15	FY 2016/17	PROJ
East Declaz Basin (TO #1)	\$	1,171.33	P	7690.16	FY 2016/17	PROJ
GWR SCADA Upgrades (TO #4)	\$	7,025.00	Q	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$	38,675.00	Q	7690.61	FY 2015/16	PROJ
GWR SCADA Upgrades (TO #4)	\$	58,510.50	Q	7690.61	FY 2019/20	PROJ
Upper Santa Ana River HCP (TO #7)	\$	15,062.88	R	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$	5,000.00	R	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$	238,646.90	S	7690.8	FY 2016/17	PROJ
Funds on Hold for Projects - Form T-18-07-01	\$	1,272,406.02	T	7690.9	FY 2017/18	PROJ
<b>Updated Balance as of August 31, 2020</b>		<b>\$ 2,374,198.06</b>				

**ADMINISTRATION SERVICES:**

Unspent funds related to ongoing projects and associated activities from the Administration Services budget from FY 2019/20 totaling \$47,500.00 were "Carried Over" into the current FY 2020/21 budget. These funds were from the Other Office Equipment-Boardroom Upgrades [A] in the amount of \$40,000 in account 6038 and the Blomquist Report-Update [B] in the amount of \$7,500 in account (6061.6).

**OBMP ACTIVITIES:**

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 2020/21 budget. These funds were from the Meter Installation - New Meter Installation [C] in the amount of \$175,400 in account (7102.65); and Meter Installation - Calibration and Testing [D] in the amount of \$181,650 in account (7102.8). The total amount available is \$357,050 (\$175,400 + \$181,650 = \$357,050).

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, 2020 a remaining balance in the fund of \$18,221.48 was "Carried Over" into the current FY 2020/21 budget. The 2020 OBMP Update - Tom Dodson & Associates [E] in the amount of \$18,221.48 in account (6908.1).

#### ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2019/20 in several accounts totaling \$430,584.49 were "Carried Over" into the current FY 2020/21 budget. These funds were from the OBMP Engineering Services [F] in the amount of \$23,220 in account (6906); 2020 OBMP Update-Engineering [G] in the amount of \$46,236 in account (6906.26); Ground Level Monitoring-Engineering [H] in the amount of \$27,400 in account (7107.2); Ground Level Monitoring-SAR Imagery [I] in the amount of \$74,752 in account (7107.3); Ground Level Monitoring-Contract Services [J] in the amount of \$44,962 in account (7107.6); SB88 Specs-Ensure Compliance-50% IEUA [K] in the amount of \$55,793.58 in account (7206.1); PE4-OBMP-Engineering [L] in the amount of \$4,342 in account (7402); PE4 - Northwest MZ-1 Area Project [M] in the amount of \$94,488.91 in account (7402.1); and PE6&7 - IEUA Salinity Management Plan [N] in the amount of \$59,390 in account (7510). The total amount available is \$430,584.49 (\$23,220 + \$46,236 + \$27,400 + \$74,752 + \$44,962 + \$55,793.58 + \$4,342 + \$94,488.91 + \$59,390 = \$430,584.49).

#### COMPLETED PROJECTS WITH FUNDING AVAILABLE:

Several projects were completed during FY 2019/20 or in prior years and have remaining funds available to be either (1) reallocated to other project(s) that need additional funding, (2) keep amounts on reserve for future Capital Improvement Projects, (3) pay down the debt service; or (4) refunded back to the Appropriative Pool when the Assessment package is invoiced. The funding amounts available are as follows: East Decluz Basin [P] in the amount of \$1,171.33 (account 7690.16); and GWR SCADA Upgrades (TO#4) [Q] in the amount of \$104,210.50 (account 7690.61). The total amount available is \$105,381.83 (\$1,171.33 + \$104,210.50 = \$105,381.83).

#### ONGOING RECHARGE IMPROVEMENT PROJECTS:

The RMPU Amendment-Task Order #1 [O] has a remaining budget from FY 2016/17 of \$56,794.57 in account (7690.15); the Upper Santa Ana River HCP-Task Order #7 [R] has a remaining funded balance of \$20,062.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [S] has a remaining funded budget balance of \$238,646.90 in account (7690.8). The total funded budget for these combined projects is \$315,504.35 (\$56,794.57 + \$20,062.88 + \$238,646.90 = \$315,504.35).

#### FUNDS ON HOLD FOR PROJECTS:

The "Funds on Hold for Projects" [T] has a remaining budget from FY 2017/18 of \$1,272,406.02 in account (7690.9). These funds can only be allocated from the account if a Budget Transfer document is presented to the Pools, Advisory, and Board for approval and adoption.

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, 2021, any remaining balances of the FY 2019/20 and prior years funding (if any), along with any new FY 2020/21 expenses, will then be "Carried Over" into the FY 2021/22 budget.

#### PREVIOUSLY REPORTED ACTIONS (Descending Order)

None

#### AUDIT FIELD WORK

#### CURRENT MONTH – AUGUST 2020

The final field work for the period of April 1, 2020 through June 30, 2020 has been scheduled for September 21 and 22, 2020. Due to the COVID-19 pandemic, the auditors will not be coming into the Watermaster office. Instead, all of the audit schedules, accounts payable selections, accounts receivable selections, bank reconciliations, payroll and timesheet selections, and any other reports and information will be provided to the auditors electronically via Dropbox software.

The Annual Financial and Audit Reports are scheduled for presentation to the Watermaster Board by Fedak & Brown LLP at the October 22, 2020 Board meeting. The Annual Financial and Audit Reports for FY 2019/20 are tentatively scheduled for posting to the Watermaster website no later than October 31, 2020.

PREVIOUSLY REPORTED ACTIONS (Descending Order)  
None

#### FY 2020/21 EXHIBIT "G" NON-AGRICULTURAL POOL SALE OF WATER

##### CURRENT MONTH – AUGUST 2020

No current activity to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order)  
None

#### ASSESSMENT INVOICING

##### CURRENT MONTH – AUGUST 2020

##### FY 2019/20 Assessment Package:

The Special Assessment invoices in the amount of \$165,694.75 were issued by Watermaster on Tuesday, August 25, 2020 with payment due 30-days after invoice date. Payments will be due to Watermaster on Friday, September 25, 2020. As past practice, payment can be made to Watermaster by either a wire transfer or check. Per the judgment, late fees could be assessed for any payment not received as of 5:00pm on Friday, September 25, 2020.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

July 2020:

On August 25, 2020 the Watermaster Board, after discussing a business item titled Overlying Agricultural Pool Legal Expense Increase, took action by a majority vote (8 yes and 1 no), directed staff to issue invoices to the Appropriate Pool Parties for the amount of \$165,694.75 for the unreimbursed increase, allocated on the basis of the Assessment Year 2019-2020 "Ag Pool Reallocation".

The Special Assessment invoices in the amount of \$165,694.75 were issued by Watermaster on Tuesday, August 25, 2020 with payment due 30-days after invoice date. Payments will be due to Watermaster on Friday, September 25, 2020. As past practice, payment can be made to Watermaster by either a wire transfer or check. Per the judgment, late fees could be assessed for any payment not received as of 5:00pm on Friday, September 25, 2020.

Per the Judgment Section VI, 55 (b) Payment. Each assessment shall be payable on or before thirty (30) days after notice, and shall be the obligation of the party or successor owning the water production facility at the time written notice of assessment is given, unless prior arrangement for payment by others has been made in writing and filed with Watermaster.

Per the Judgment Section VI, 55 (c) Delinquency. Any delinquent assessment shall bear interest at 10% per annum (or such greater rate as shall equal the average current cost of borrowed funds to the Watermaster) from the due date thereof. Such delinquent assessment and interest may be collected in a show-cause proceeding herein instituted by the Watermaster, in which case the Court may allow Watermaster its reasonable costs of collection, including attorney's fees.

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 2020				Year-To-Date as of August 31, 2020				Fiscal Year End as of June 30, 2021			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
<b>Income</b>												
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	173,102.47	176,203.00	-3,100.53	98.24%	176,203.00	176,203.00	0.00	100.0%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	8,378,994.00	8,378,994.00	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%	321,945.00	321,945.00	0.00	100.0%
4700 · Non Operating Revenues	5.51	0.00	5.51	100.0%	11.21	0.00	11.21	100.0%	130,813.00	130,813.00	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%
<b>Total Income</b>	<b>5.51</b>	<b>0.00</b>	<b>5.51</b>	<b>100.0%</b>	<b>173,113.68</b>	<b>176,203.00</b>	<b>-3,089.32</b>	<b>98.25%</b>	<b>9,007,955.00</b>	<b>9,007,955.00</b>	<b>0.00</b>	<b>100.0%</b>
<b>Gross Profit</b>	<b>5.51</b>	<b>0.00</b>	<b>5.51</b>	<b>100.0%</b>	<b>173,113.68</b>	<b>176,203.00</b>	<b>-3,089.32</b>	<b>98.25%</b>	<b>9,007,955.00</b>	<b>9,007,955.00</b>	<b>0.00</b>	<b>100.0%</b>
<b>Expense</b>												
6010 · Admin. Salary/Benefit Costs	70,390.06	104,988.00	-34,597.94	67.05%	154,759.18	205,679.00	-50,919.82	75.24%	1,198,051.00	1,198,051.00	0.00	100.0%
6020 · Office Building Expense	9,657.04	9,668.00	-10.96	99.89%	19,902.19	19,961.00	-58.81	99.71%	121,072.00	121,072.00	0.00	100.0%
6030 · Office Supplies & Equip.	1,320.77	2,775.00	-1,454.23	47.6%	2,943.94	45,550.00	-42,606.06	6.46%	169,800.00	169,800.00	0.00	100.0%
6040 · Postage & Printing Costs	1,485.03	2,207.00	-721.97	67.29%	5,067.28	5,842.00	-774.72	86.74%	34,446.00	34,446.00	0.00	100.0%
6050 · Information Services	11,244.01	17,630.00	-6,385.99	63.78%	29,130.65	36,491.00	-7,360.35	79.83%	171,484.00	171,484.00	0.00	100.0%
6060 · Contract Services	1,385.16	10,650.00	-9,264.84	13.01%	3,994.94	24,550.00	-20,555.06	16.27%	52,600.00	52,600.00	0.00	100.0%
6070 · Watermaster Legal Services	42,199.82	15,930.00	26,269.82	264.91%	102,380.04	36,362.00	66,018.04	281.56%	201,065.00	201,065.00	0.00	100.0%
6080 · Insurance	9,858.53	0.00	9,858.53	100.0%	39,599.81	43,989.00	-4,389.19	90.02%	45,342.00	45,342.00	0.00	100.0%
6110 · Dues and Subscriptions	35.00	250.00	-215.00	14.0%	15,377.50	18,027.00	-2,649.50	85.3%	37,003.00	37,003.00	0.00	100.0%
6140 · WM Admin Expenses	0.00	338.00	-338.00	0.0%	7.51	675.00	-667.49	1.11%	4,750.00	4,750.00	0.00	100.0%
6150 · Field Supplies	0.00	900.00	-900.00	0.0%	0.00	1,012.00	-1,012.00	0.0%	2,750.00	2,750.00	0.00	100.0%
6170 · Travel & Transportation	1,662.90	2,420.00	-757.10	68.72%	2,751.22	4,255.00	-1,503.78	64.66%	24,170.00	24,170.00	0.00	100.0%
6190 · Training, Conferences, Seminars	1,663.11	1,900.00	-236.89	87.53%	2,738.11	4,500.00	-1,761.89	60.85%	38,800.00	38,800.00	0.00	100.0%
6200 · Advisory Comm - WM Board	7,538.34	4,561.00	2,977.34	165.28%	11,886.54	9,012.00	2,874.54	131.9%	50,983.00	50,983.00	0.00	100.0%
6300 · Watermaster Board Expenses	17,444.41	14,188.00	3,256.41	122.95%	42,646.04	28,197.00	14,449.04	151.24%	186,455.00	186,455.00	0.00	100.0%
8300 · Appr PI-WM & Pool Admin	31,160.48	17,192.00	13,968.48	181.25%	65,189.63	34,220.00	30,969.63	190.5%	201,218.00	201,218.00	0.00	100.0%
8400 · Agri Pool-WM & Pool Admin	5,760.01	5,917.00	-156.99	97.35%	9,218.56	11,695.00	-2,476.44	78.83%	66,310.00	66,310.00	0.00	100.0%
8467 · Ag Legal & Technical Services	32,087.50	25,000.00	7,087.50	128.35%	90,782.50	50,000.00	40,782.50	181.57%	300,000.00	300,000.00	0.00	100.0%
8470 · Ag Meeting Attend -Special	3,925.00	1,850.00	2,075.00	212.16%	6,150.00	3,700.00	2,450.00	166.22%	22,200.00	22,200.00	0.00	100.0%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	18,484.00	21,250.00	-2,766.00	86.98%	85,000.00	85,000.00	0.00	100.0%
8485 · Ag Pool - Misc. Exp. - Ag Fund	0.00	0.00	0.00	0.0%	0.00	100.00	-100.00	0.0%	400.00	400.00	0.00	100.0%
8500 · Non-Ag PI-WM & Pool Admin	6,437.73	11,496.00	-5,058.27	56.0%	17,009.40	22,896.00	-5,886.60	74.29%	133,946.00	133,946.00	0.00	100.0%
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	-31,918.36	-38,648.00	6,729.64	82.59%	-60,877.82	-77,296.00	16,418.18	78.76%	-463,776.00	-463,776.00	0.00	100.0%
6900 · Optimum Basin Mgmt Plan	105,427.17	135,993.00	-30,565.83	77.52%	195,406.18	372,565.48	-177,159.30	52.45%	1,724,582.48	1,724,582.48	0.00	100.0%
9501 · G&A Expenses Allocated-OBMP	17,213.13	10,855.00	6,358.13	158.57%	27,656.02	21,709.00	5,947.02	127.39%	130,257.00	130,257.00	0.00	100.0%
7101 · Production Monitoring	1,659.91	7,859.00	-6,199.09	21.12%	9,097.31	15,380.00	-6,282.69	59.15%	88,893.00	88,893.00	0.00	100.0%
7102 · In-line Meter Installation	0.00	1,264.00	-1,264.00	0.0%	0.00	359,539.00	-359,539.00	0.0%	371,595.00	371,595.00	0.00	100.0%
7103 · Grdwtr Quality Monitoring	17,573.59	27,942.00	-10,368.41	62.89%	31,535.73	55,655.00	-24,119.27	56.66%	331,618.00	331,618.00	0.00	100.0%
7104 · Gdwtr Level Monitoring	16,992.94	24,547.00	-7,554.06	69.23%	32,246.13	48,858.00	-16,611.87	66.0%	290,805.00	290,805.00	0.00	100.0%
7105 · Sur Wtr Qual Monitoring	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7106 · Wtr Level Sensors Installation	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
7107 · Ground Level Monitoring	2,456.05	12,551.00	-10,094.95	19.57%	83,250.54	193,442.00	-110,191.46	43.04%	382,320.00	382,320.00	0.00	100.0%



	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 2020				Year-To-Date as of August 31, 2020				Fiscal Year End as of June 30, 2021			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 - Hydraulic Control Monitoring	1,960.00	7,137.00	-5,177.00	27.46%	2,231.20	14,233.00	-12,001.80	15.68%	84,990.00	84,990.00	0.00	100.0%
7109 - Recharge & Well Monitoring Prog	1,627.20	2,709.00	-1,081.80	60.07%	1,627.20	5,419.00	-3,791.80	30.03%	32,512.00	32,512.00	0.00	100.0%
7110 - Ag Production & Estimation	0.00	1,922.00	-1,922.00	0.0%	0.00	3,843.00	-3,843.00	0.0%	23,060.00	23,060.00	0.00	100.0%
7111 - Improved Data Collection & Mgmt	0.00	1,641.00	-1,641.00	0.0%	0.00	3,283.00	-3,283.00	0.0%	19,696.00	19,696.00	0.00	100.0%
7200 - PE2- Comp Recharge Pgm	12,318.90	38,141.00	-25,822.10	32.3%	383,469.01	494,023.58	-110,554.57	77.62%	1,958,966.58	1,958,966.58	0.00	100.0%
7300 - PE3&5-Water Supply/Desalte	0.00	3,964.00	-3,964.00	0.0%	429.40	7,859.00	-7,429.60	5.46%	46,474.00	46,474.00	0.00	100.0%
7400 - PE4- Mgmt Plan	35,731.65	32,692.00	3,039.65	109.3%	80,172.00	164,173.91	-84,001.91	48.83%	490,467.91	490,467.91	0.00	100.0%
7500 - PE6&7-CoopEfforts/SaltMgmt	11,810.82	17,225.00	-5,414.18	68.57%	18,881.58	93,796.00	-74,914.42	20.13%	265,373.00	265,373.00	0.00	100.0%
7600 - PE8&9-StorageMgmt/Conj Use	41.79	5,714.00	-5,672.21	0.73%	83.58	11,338.00	-11,254.42	0.74%	67,117.00	67,117.00	0.00	100.0%
7690 - Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%	534,496.00	2,227,788.20	-1,693,292.20	23.99%	2,227,788.20	2,227,788.20	0.00	100.0%
7700 - Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	83.00	-83.00	0.0%	500.00	500.00	0.00	100.0%
9502 - G&A Expenses Allocated-Projects	14,705.23	27,793.00	-13,087.77	52.91%	33,221.80	55,587.00	-22,365.20	59.77%	333,519.00	333,519.00	0.00	100.0%
<b>Total Expense</b>	<b>462,854.92</b>	<b>571,203.00</b>	<b>-108,348.08</b>	<b>81.03%</b>	<b>2,012,944.90</b>	<b>4,699,242.17</b>	<b>-2,686,297.27</b>	<b>42.84%</b>	<b>11,554,603.17</b>	<b>11,554,603.17</b>	<b>0.00</b>	<b>100.0%</b>
<b>Net Ordinary Income</b>	<b>-462,849.41</b>	<b>-571,203.00</b>	<b>108,353.59</b>	<b>81.03%</b>	<b>-1,839,831.22</b>	<b>-4,523,039.17</b>	<b>2,683,207.95</b>	<b>40.68%</b>	<b>-2,546,648.17</b>	<b>-2,546,648.17</b>	<b>0.00</b>	<b>100.0%</b>
<b>Other Income</b>												
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%	2,722.41	0.00	2,722.41	100.0%	2,722.41	0.00	2,722.41	100.0%
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%
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%
<b>Total Other Income</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>2,722.41</b>	<b>0.00</b>	<b>2,722.41</b>	<b>100.0%</b>	<b>2,722.41</b>	<b>0.00</b>	<b>2,722.41</b>	<b>100.0%</b>
<b>Other Expense</b>												
5010 - Groundwater Replenishment	38,549.97	0.00	38,549.97	100.0%	38,549.97	0.00	38,549.97	100.0%	44,474.67	0.00	44,474.67	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%
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%
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%
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%
<b>Total Other Expense</b>	<b>38,549.97</b>	<b>0.00</b>	<b>38,549.97</b>	<b>100.0%</b>	<b>38,549.97</b>	<b>0.00</b>	<b>38,549.97</b>	<b>100.0%</b>	<b>44,474.67</b>	<b>0.00</b>	<b>44,474.67</b>	<b>100.0%</b>
<b>Net Other Income</b>	<b>-38,549.97</b>	<b>0.00</b>	<b>-38,549.97</b>	<b>100.0%</b>	<b>-35,827.56</b>	<b>0.00</b>	<b>-35,827.56</b>	<b>100.0%</b>	<b>-41,752.26</b>	<b>0.00</b>	<b>-41,752.26</b>	<b>100.0%</b>
<b>Net Income</b>	<b>-501,399.38</b>	<b>-571,203.00</b>	<b>69,803.62</b>	<b>87.78%</b>	<b>-1,875,658.78</b>	<b>-4,523,039.17</b>	<b>2,647,380.39</b>	<b>41.47%</b>	<b>-2,588,400.43</b>	<b>-2,546,648.17</b>	<b>-41,752.26</b>	<b>101.64%</b>

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 2020**

Financial Report - B6  
For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22351</b>	<b>ACCENT COMPUTER SOLUTIONS, INC.</b>	<b>137497</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/01/2020	137497		Monthly Services - September 2020	6052.4 · IT Managed Services	4,067.35
				Overwatch - September 2020	6052.5 · IT Data Backup/Storage	699.00
				OmniCloud - September 2020	6052.5 · IT Data Backup/Storage	170.00
				Office 365 Subscriptions - September 2020	6052.4 · IT Managed Services	195.75
				Image office storage (per GB, per month)	6052.5 · IT Data Backup/Storage	779.94
<b>TOTAL</b>						<b>5,912.04</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22352</b>	<b>CHINO CHAMPION NEWSPAPER</b>	<b>8043</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/28/2020	8043		Subscribe-Chino Champion newspaper	6112 · Subscriptions/Publications	35.00
<b>TOTAL</b>						<b>35.00</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22353</b>	<b>DE BOOM, NATHAN</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/03/2020	8/03 Special Ag Pool		8/03/20 Special Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/06/2020	8/06 Special Ag Pool		8/06/20 Special Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/13/2020	8/13 Ag Pool Mtg		8/13/20 Ag Pool meeting	8470 · Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>500.00</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22354</b>	<b>EUROFINS EATON ANALYTICAL</b>		<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	L0524345		L0524345	7108.41 · Hydraulic Control - PBHSP	440.00
Bill	08/04/2020	L0524344		L0524344	7108.41 · Hydraulic Control - PBHSP	1,520.00
Bill	08/28/2020	L0527263		L0527263	7103.5 · Grdwtr Qual-Lab Svcs	483.00
<b>TOTAL</b>						<b>2,443.00</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22355</b>	<b>FONTANA UNION WATER COMPANY'</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/27/2020	2/26 CBWM Mtg		2/26/20 Board Matters meeting - Curatalo	6311 · Board Member Compensation	125.00
<b>TOTAL</b>						<b>125.00</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22356</b>	<b>KESSLER ALAIR INSURANCE SERVICES, INC.</b>	<b>35488</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	35488		Environmental Pollution 8/30/20-6/30/21	6085 · Business Insurance Package	9,858.53
				Environmental Pollution 7/01/21-8/30/21	1401 · Prepaid Insurance-Pkg	1,978.19
<b>TOTAL</b>						<b>11,836.72</b>
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22357</b>	<b>EASTVALE DEVELOPMENT - PIERSON</b>	<b>Ag Pool and Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/07/2020	7/07 Board Officers		7/07/20 Board Officers briefing w/GM	6311 · Board Member Compensation	125.00
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	07/09/2020	7/09 CC w/Chair/Lgl		7/09/20 Conference call w/Chair & counsel	8470 · Ag Meeting Attend -Special	125.00
Bill	07/10/2020	7/10 Court Hearing		7/10/20 Court Hearing	6311 · Board Member Compensation	125.00



**CHINO BASIN WATERMASTER**  
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	07/16/2020	7/16 Advisory Comm		7/16/20 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	07/16/2020	7/16 RIPCom Mtg		7/16/20 RIPCom Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	07/16/2020	7/16 Board Officers		7/16/20 Pool Chair and Board Officers Mtg.	6311 · Board Member Compensation	125.00
Bill	07/20/2020	7/20 Admin Mtg		7/20/20 Administrative meeting w/GM	6311 · Board Member Compensation	125.00
Bill	07/21/2020	7/21 Board Officers		7/21/20 Board Officers conference call w/GM	6311 · Board Member Compensation	125.00
Bill	07/24/2020	7/24 Board Review		7/27/20 Review of 7/23/20 Board mtg. audio	6311 · Board Member Compensation	125.00
Bill	07/27/2020	7/27 Board Officers		7/27/20 Board Officers (Pierson, Curatalo)	6311 · Board Member Compensation	125.00
Bill	07/28/2020	7/28 Board Attny		7/28/20 Conference call w/Board attorney	6311 · Board Member Compensation	125.00
Bill	07/29/2020	7/29 Board Attny		7/29/20 Conference call w/Board attorney	6311 · Board Member Compensation	125.00
Bill	07/30/2020	7/30 CC w/Chair		7/30/20 Conference call w/Pool Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	07/30/2020	7/30 call w/legal		7/30/20 Video conf. call w/Chair & counsel	8470 · Ag Meeting Attend -Special	125.00
TOTAL						1,875.00
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22358</b>	<b>PIETERSMA, RONALD</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/09/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	07/17/2020	7/17 Special Ag Pool		7/17/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	07/22/2020	7/22 Special Ag Pool		7/22/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						375.00
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22359</b>	<b>PUBLIC EMPLOYEES' RETIREMENT SYSTEM</b>	<b>VOID: Payor #3493</b>	<b>1012 · Bank of America Gen'l Ckg</b>	0.00
TOTAL						0.00
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22360</b>	<b>READY REFRESH BY NESTLE</b>	<b>0023230253</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/28/2020	0023230253		Office Water Bottle - August 2020	6031.7 · Other Office Supplies	31.36
TOTAL						31.36
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22361</b>	<b>SPECTRUM BUSINESS</b>	<b>2031978082320</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	2031978082320		8/23/20-9/22/20	6053 · Internet Expense	803.01
TOTAL						803.01
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22362</b>	<b>STANDARD INSURANCE CO.</b>	<b>Policy # 00-649299-0009</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/28/2020	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	903.53
TOTAL						903.53
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22363</b>	<b>STATE COMPENSATION INSURANCE FUND</b>	<b>1970970-20</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/01/2020	1970970-20		Premium 8/26/20-9/26/20	60183 · Worker's Comp Insurance	514.25
TOTAL						514.25
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22364</b>	<b>VERIZON WIRELESS</b>	<b>9860659695</b>	<b>1012 · Bank of America Gen'l Ckg</b>	

**CHINO BASIN WATERMASTER**  
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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	08/28/2020	9860659695		Acct #64207370-00001	7103.7 · Grdwtr Qual-Computer Svc	129.58
TOTAL						129.58
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22365</b>	<b>VISION SERVICE PLAN</b>	<b>00-101789-0001</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/28/2020	00101789		Vision Insurance Premium - Sept. 2020	60182.2 · Dental & Vision Ins	93.83
TOTAL						93.83
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22366</b>	<b>WESTERN MUNICIPAL WATER DISTRICT</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board meeting - Don Galleano	6311 · Board Member Compensation	125.00
TOTAL						125.00
<b>Bill Pmt -Check</b>	<b>09/01/2020</b>	<b>22367</b>	<b>WILDERMUTH ENVIRONMENTAL INC</b>		<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	07/31/2020	2020260		2020260	6906.72 · OBMP-Data Req.-Non CBWM Staff	26,995.75
Bill	07/31/2020	2020261		2020261	6906.31 · OBMP-Pool, Adv. Board Mtgs	5,317.50
Bill	07/31/2020	2020262		2020262	6906.32 · OBMP-Other General Meetings	3,341.80
Bill	07/31/2020	2020263		2020263	6906.74 · OBMP-Mat'l Phy. Injury Requests	60.90
Bill	07/31/2020	2020264		2020264	6906.71 · OBMP-Data Req.-CBWM Staff	5,793.30
Bill	07/31/2020	2020265		2020265	6906.72 · OBMP-Data Req.-Non CBWM Staff	967.45
Bill	07/31/2020	2020266		2020266	6906 · OBMP Engineering Services	1,229.90
Bill	07/31/2020	2020267		2020267	6906.26 · 2020 OBMP Update	4,585.95
Bill	07/31/2020	2020268		2020268	6906.73 · OBMP-2020 Safe Yield Recalc	2,000.05
Bill	07/31/2020	2020269		2020269	6906.81 · Prepare Annual Reports	2,105.20
Bill	07/31/2020	2020270		2020270	6906.15 · Integrated Model Mtgs-IEUA Cost	677.50
Bill	07/31/2020	2020271		2020271	7103.3 · Grdwtr Qual-Engineering	7,826.14
Bill	07/31/2020	2020272		2020272	7104.3 · Grdwtr Level-Engineering	9,441.55
Bill	07/31/2020	2020273		2020273	7107.2 · Grd Level-Engineering	3,188.46
				WSP USA Inc.	7107.6 · Grd Level-Contract Svcs	4,493.03
Bill	07/31/2020	2020274		2020274	7107.2 · Grd Level-Engineering	113.00
				General Atomics	7107.3 · Grd Level-SAR Imagery	73,000.00
Bill	07/31/2020	2020275		2020275	7402 · PE4-Engineering	17,828.50
Bill	07/31/2020	2020276		2020276	7402.10 · PE4 - Northwest MZ1 Area Proj.	26,611.85
Bill	07/31/2020	2020277		2020277	7108.31 · Hydraulic Control - PBHSP	542.40
Bill	07/31/2020	2020278		2020278	7202.2 · Engineering Svc	852.60
Bill	07/31/2020	2020279		2020279	7206.1 · SB88 Specs-Ensure Compliance	2,835.70
Bill	07/31/2020	2020280		2020280	7303 · PE3&5-Engineering	429.40
Bill	07/31/2020	2020281		2020281	7510 · PE6&7-IEUA Salinity Mgmt. Plan	10,787.60
Bill	07/31/2020	2020282		2020282	7511 · PE6&7-SAWBMPTask Force-50% IEU,	52.60
TOTAL						211,078.13
<b>Bill Pmt -Check</b>	<b>09/03/2020</b>	<b>ACH 090320</b>	<b>CALPERS</b>	<b>1394905143</b>	<b>1012 · Bank of America Gen'l Ckg</b>	

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Bill	09/01/2020	1394905143		Medical Insurance Premiums - Sept. 2020	60182.1 · Medical Insurance	11,014.66
TOTAL						11,014.66
<b>General Journal</b>	<b>09/05/2020</b>	<b>09/05/20</b>	<b>Payroll and Taxes for 08/23/20-09/05/20</b>	<b>Payroll and Taxes for 08/23/20-09/05/20</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
				Direct Deposits for 08/23/20-09/05/20	1012 · Bank of America Gen'l Ckg	29,495.92
				Payroll and Taxes for 08/23/20-09/05/20	1012 · Bank of America Gen'l Ckg	9,997.17
			ICMA-RC	457(b) EE Deductions for 08/23/20-09/05/20	1012 · Bank of America Gen'l Ckg	5,476.92
			ICMA-RC	401(a) EE Deductions for 08/23/20-09/05/20	1012 · Bank of America Gen'l Ckg	1,562.57
TOTAL						46,532.58
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22368</b>	<b>ACCENT COMPUTER SOLUTIONS, INC.</b>	<b>137620</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	137620		XMS Cloud subscription renewal	6054 · Computer Software	519.36
TOTAL						519.36
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22369</b>	<b>APPLIED COMPUTER TECHNOLOGIES</b>	<b>3162</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	3162		August 2020	6052.2 · Applied Computer Technol	3,850.00
TOTAL						3,850.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22370</b>	<b>BERCHTOLD, KURT</b>	<b>Hearing Officer Retainer</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/04/2020			Retainer - OAP Contest Hearing	6068 · Hearing Officer	1,000.00
TOTAL						1,000.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22371</b>	<b>BOWCOCK, ROBERT</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board meeting	6311 · Board Member Compensation	125.00
Bill	08/20/2020	8/20 Advisory Comm		8/20/20 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
Bill	08/25/2020	8/25/20 Board Mtg		8/25/20 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						375.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22372</b>	<b>BURRTEC WASTE INDUSTRIES, INC.</b>	<b>N2111442682</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/02/2020	N2111442682		September 2020	6024 · Building Repair & Maintenance	135.72
TOTAL						135.72
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22373</b>	<b>DELL MARKETING LP</b>	<b>1041410689</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	10414106890		Boardroom AV equipment	1840 · Capital Assets	9,000.35
TOTAL						9,000.35
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22374</b>	<b>ELIE, STEVEN</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board meeting	6311 · Board Member Compensation	125.00
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00

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<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22375</b>	<b>EMPOWER LAB</b>	<b>1533</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/01/2020	1533		Empower Lab-August 2020	6193 · Employee Training	1,075.00
TOTAL						1,075.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22376</b>	<b>EUROFINS EATON ANALYTICAL</b>	<b>L0529450</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/02/2020	L0529450		L0529450	7103.5 · Grdwtr Qual-Lab Svcs	483.00
TOTAL						483.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22377</b>	<b>FEDAK &amp; BROWN LLP</b>	<b>Audit Services - Progress Billing</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/28/2020			August 2020	6062 · Audit Services	715.00
TOTAL						715.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22378</b>	<b>FEENSTRA, BOB</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	7/09 Ag Pool Closed		7/09/20 Ag Pool closed session	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/09 Ag Pool Mtg		7/09/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/10 Court Hearing		7/10/20 Court Hearing	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/16 Advisory Comm		7/16/20 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/17 Special Ag Pool		7/17/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/17 Attorney Mtg		7/17/20 Special mtg. w/counsel, Board Chair	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/14 Invoice Review		7/14/20 Review SAWPA Task Force invoice	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/22 Conference call		7/22/20 Conf. call-Safe Yield, w/Hofer, Boyd	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/23 Board Mtg		7/23/20 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/31/2020	7/30 Attorney Mtg		7/30/20 Conf. call w/counsel, Pool members	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/02 Conference Call		6/02/20 Conf. call-GSI evidence/declaration	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/03 Attorney Mtg		6/03/20 Attorney conf.-revised contest brief	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/09 Attorney Mtg		6/09/20 Attorney conf.-final contest brief	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/11 Ag Pool Mtg		6/11/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/18 Advisory Comm		6/18/20 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/18 Pool Chairs Mtg		6/18/20 Pool Chairs Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/19 Ontario Corresp		6/19/20 City of Ontario letter	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/23 Filing Review		6/23/20 Legal filing review	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/25 Attorney Mtg		6/25/20 Mtg. w/ counsel-Ag Pool invoices	8470 · Ag Meeting Attend -Special	125.00
Bill	06/30/2020	6/25 Board Mtg		6/25/20 Board Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						2,500.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22379</b>	<b>FILIPPI, GINO</b>	<b>Ag Pool and Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/03/2020	8/03 Special Ag Pool		8/03/20 Special Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				8/03/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board Meeting	8411 · Ag Pool Member Compensation	25.00

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				8/04/20 Special Board Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board Meeting	6311 · Board Member Compensation	125.00
Bill	08/31/2020	8/13 Ag Pool Mtg		8/13/20 Ag Pool Meeting	8411 · Ag Pool Member Compensation	25.00
				8/13/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
<b>TOTAL</b>						<b>500.00</b>
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22380</b>	<b>FONTANA UNION WATER COMPANY'</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board meeting - Curatalo	6311 · Board Member Compensation	125.00
Bill	08/11/2020	8/11 Bd Officers Mtg		8/11/20 Board Officer check-in mtg.- Curatalo	6311 · Board Member Compensation	125.00
Bill	08/20/2020	8/20 Bd Officers		8/20/20 Board Officers/Pool Chairs mtg. - Curatalo	6311 · Board Member Compensation	125.00
Bill	08/24/2020	8/24 Board Agenda		8/24/20 Board agenda preview - Curatalo	6311 · Board Member Compensation	125.00
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board meeting - Curatalo	6311 · Board Member Compensation	125.00
<b>TOTAL</b>						<b>625.00</b>
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22381</b>	<b>GEYE, BRIAN</b>	<b>Non-Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	08/14/2020	8/14 Non Ag Pool Mtg		8/14/20 Non-Ag Pool Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	08/20/2020	8/20 Advisory Comm		8/20/20 Advisory Committee Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	08/20/2020	8/20 Pool Chairs Mtg		8/20/20 Board Officers / Pool Chairs Meeting	8511 · Non-Ag Pool Member Compensation	125.00
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board Meeting	8511 · Non-Ag Pool Member Compensation	125.00
<b>TOTAL</b>						<b>625.00</b>
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22382</b>	<b>INLAND EMPIRE UTILITIES AGENCY</b>	<b>RTS Charges</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	1800004595		RTS charge for FY 2020/2021	5018 · RTS Charges - IEUA	38,549.97
Bill	09/04/2020	1800004596		RTS charge for FY 2019/2020 adjustment	5018 · RTS Charges - IEUA	5,924.70
<b>TOTAL</b>						<b>44,474.67</b>
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22383</b>	<b>PIETERSMA, RONALD</b>	<b>Ag Pool member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/03/2020	8/03 Special Ag Pool		8/03/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/06/2020	8/06 Special Ag Pool		8/06/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/13/2020	8/13 Ag Pool Mtg		8/13/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/13/2020	8/13 Ag Confidential		8/13/20 Ag Pool Confidential Session	8470 · Ag Meeting Attend -Special	125.00
<b>TOTAL</b>						<b>500.00</b>
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22384</b>	<b>PREMIERE GLOBAL SERVICES</b>	<b>29823581</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	29823581		Ag Pool Contest check-in call on 8/05	8412 · Meeting Expenses	6.40
				Ag Pool Contest check-in call on 8/05	8412 · Meeting Expenses	6.41
				Ag Pool Contest check-in call on 8/05	8412 · Meeting Expenses	6.39
				Approp. Pool Meeting check-in call on 8/05	8312 · Meeting Expenses	8.38
				43rd Annual Report check-in call on 8/12	6909.1 · OBMP Meetings	6.40

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				Pool meetings check-in call on 8/12	8312 · Meeting Expenses	7.89
				Pool meetings check-in call on 8/12	8412 · Meeting Expenses	7.90
				Pool meetings check-in call on 8/12	8512 · Meeting Expense	7.90
				Board meeting debrief call on 8/26	6312 · Meeting Expenses	6.39
				Fee - General	6022 · Telephone	39.00
				Fee - Confidential	6022 · Telephone	39.00
				Board Agenda preveiw call on 8/24	6312 · Meeting Expenses	27.38
				Call shortfalls	6022 · Telephone	78.00
				Service Fee	6022 · Telephone	24.80
TOTAL						272.24
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22385</b>	<b>ROGERS, PETER</b>	<b>Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/25/2020	8/25 Board Mtg		8/2520 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
<b>Bill Pmt -Check</b>	<b>09/08/2020</b>	<b>22386</b>	<b>RR FRANCHISING, INC.</b>	<b>90888</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/01/2020	90888		Monthly cleaning service - September 2020	6024 · Building Repair & Maintenance	915.00
TOTAL						915.00
<b>Bill Pmt -Check</b>	<b>09/09/2020</b>	<b>22387</b>	<b>BANK OF AMERICA</b>	<b>XXXX-XXXX-XXXX-9341</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	XXXX-XXXX-XXXX-9341		Ergonomic chair cushion-AN	6031.7 · Other Office Supplies	21.51
				Chair foot rest, back support-AN	6031.7 · Other Office Supplies	26.90
				Miscellaneous office supplies	6031.7 · Other Office Supplies	18.96
				Send check to vendor 2-day delivery	6042 · Postage - General	35.50
				Miscellaneous office supplies	6031.7 · Other Office Supplies	19.53
				Acrobat Pro software-JJ	6054 · Computer Software	179.63
				Miscellaneous office supplies	6031.7 · Other Office Supplies	43.00
				Registration for ETF - Leadership Develop.	6193.2 · Conference - Registration Fee	1,193.32
				Miscellaneous office supplies-Toner	6031.7 · Other Office Supplies	175.76
				Wireless keyboard/mouse-JJ	6031.7 · Other Office Supplies	30.40
				Miscellaneous office supplies	6031.7 · Other Office Supplies	21.69
				Miscellaneous office supplies-laptop case	6031.7 · Other Office Supplies	24.21
				Reg. - PK - 2020 ACWA CLE Virtual Workshop	6193.2 · Conference - Registration Fee	84.88
				Miscellaneous office supplies-CV19	6031.7 · Other Office Supplies	10.33
				Miscellaneous office supplies	6031.7 · Other Office Supplies	19.41
				Miscellaneous office supplies	6031.7 · Other Office Supplies	249.48
				Monthly fee for GoToMeeting Webinar service	6022 · Telephone	58.92
TOTAL						2,213.43
<b>Bill Pmt -Check</b>	<b>09/09/2020</b>	<b>22388</b>	<b>EUROFINS EATON ANALYTICAL</b>	<b>L0529882</b>	<b>1012 · Bank of America Gen'l Ckg</b>	

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Bill	09/04/2020	L0529882		L0529882	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
TOTAL						1,476.00
<b>Bill Pmt -Check</b>	<b>09/09/2020</b>	<b>22389</b>	<b>HUITSING, JOHN</b>	<b>Ag Pool Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/06/2020	8/06 Special Ag Mtg		8/06/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/13/2020	8/13 Ag Pool Mtg		8/13/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
TOTAL						375.00
<b>Bill Pmt -Check</b>	<b>09/09/2020</b>	<b>22390</b>	<b>R&amp;D PEST SERVICES</b>	<b>0262294</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/08/2020	0262294		Treat office and annex for pest control	6024 · Building Repair & Maintenance	100.00
TOTAL						100.00
<b>Bill Pmt -Check</b>	<b>09/09/2020</b>	<b>22391</b>	<b>UNION 76</b>	<b>Vehicle Fuel</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	7076224530355049		August 2020	6175 · Vehicle Fuel	192.90
TOTAL						192.90
<b>Bill Pmt -Check</b>	<b>09/11/2020</b>	<b>ACH 091120</b>	<b>PUBLIC EMPLOYEES' RETIREMENT SYSTEM</b>	<b>Payor #3493</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
General Journal	09/05/2020	09/05/2020	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 08/23/20-09/05/20	2000 · Accounts Payable	8,586.15
TOTAL						8,586.15
<b>Bill Pmt -Check</b>	<b>09/15/2020</b>	<b>ACH 091520</b>	<b>PUBLIC EMPLOYEES' RETIREMENT SYSTEM</b>	<b>Payor #3493</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/21/2020	100000016149431		Fees for GASB-68 Reports & Schedules	60180 · Employers PERS Expense	700.00
TOTAL						700.00
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22392</b>	<b>ACWA JOINT POWERS INSURANCE AUTHORITY</b>	<b>00030A</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	00030A		Prepayment - October 2020	1409 · Prepaid Life, BAD&D & LTD	253.57
				September 2020	60191 · Life & Disab.Ins Benefits	254.55
TOTAL						508.12
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22393</b>	<b>CORELOGIC INFORMATION SOLUTIONS</b>	<b>82041883</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	82041883		August 2020	7103.7 · Grdwtr Qual-Computer Svc	62.50
				82041883	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22394</b>	<b>CUCAMONGA VALLEY WATER DISTRICT</b>	<b>Office Lease</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020			Lease due on October 1, 2020	1422 · Prepaid Rent	7,213.72
TOTAL						7,213.72
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22395</b>	<b>EUROFINS EATON ANALYTICAL</b>		<b>1012 · Bank of America Gen'l Ckg</b>	

**CHINO BASIN WATERMASTER**  
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<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
Bill	09/08/2020	L0530235		L0530235	7103.5 · Grdwtr Qual-Lab Svcs	966.00
Bill	09/08/2020	L0530232		L0530232	7103.5 · Grdwtr Qual-Lab Svcs	1,386.00
Bill	09/15/2020	L0530461		L0530461	7103.5 · Grdwtr Qual-Lab Svcs	1,256.00
TOTAL						3,608.00
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22396</b>	<b>FIRST LEGAL NETWORK LLC</b>	<b>40041969</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	40041969		Court filings for August 2020	6061.5 · Court Filing Services	670.16
TOTAL						670.16
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22397</b>	<b>FRONTIER COMMUNICATIONS</b>	<b>909-484-3890-050914-5</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	90948438900509145		Office fax	6022 · Telephone	156.71
TOTAL						156.71
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22398</b>	<b>INLAND EMPIRE UTILITIES AGENCY</b>	<b>90027416</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	90027416		GW Recharge O&M costs- 2nd quarter	1435 · Prepaid O&M Expense - IEUA	362,142.76
TOTAL						362,142.76
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22399</b>	<b>INLAND VALLEY DAILY BULLETIN</b>	<b>900421820</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	900421820		26 weeks renewal 10/01/20	6112 · Subscriptions/Publications	510.62
TOTAL						510.62
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22400</b>	<b>LEGAL SHIELD</b>	<b>111802</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	111802		Employee deductions - September 2020	60194 · Other Employee Insurance	177.35
TOTAL						177.35
<b>Bill Pmt -Check</b>	<b>09/16/2020</b>	<b>22401</b>	<b>EASTVALE DEVELOPMENT - PIERSON</b>	<b>Ag Pool and Board Member Compensation</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/03/2020	8/03 Special Ag Pool		8/03/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/03/2020	8/03 Legal Counsel		8/03/20 Conf. call w/Board legal counsel	6311 · Board Member Compensation	125.00
Bill	08/04/2020	8/04 Special Board		8/04/20 Special Board Meeting	6311 · Board Member Compensation	125.00
Bill	08/06/2020	8/06 Special Ag Pool		8/06/20 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/13/2020	8/13 Ag Pool Mtg		8/13/20 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/14/2020	8/14 Attorney CC		8/14/20 Conf. call w/chairman and counsel	8470 · Ag Meeting Attend -Special	125.00
Bill	08/19/2020	8/19 Attorney CC		8/19/20 Conf. call w/chairman and counsel	8470 · Ag Meeting Attend -Special	125.00
Bill	08/20/2020	8/20 Advisory Comm		8/20/20 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	125.00
Bill	08/20/2020	8/20 Board Officers		8/20/20 Board Officers/Pool Chairs mtg.	6311 · Board Member Compensation	125.00
Bill	08/21/2020	8/21 Admin Mtg		8/21/20 Aministrative meeting w/GM	6311 · Board Member Compensation	125.00
Bill	08/24/2020	8/24 Board Agenda		8/24/20 Board Agenda Preview	6311 · Board Member Compensation	125.00
Bill	08/25/2020	8/25 Board Mtg		8/25/20 Board Meeting	6311 · Board Member Compensation	125.00
Bill	08/26/2020	8/26 Attorney CC		8/26/20 Conf. call w/chairman and counsel	8470 · Ag Meeting Attend -Special	125.00
Bill	08/28/2020	8/28 Attorney CC		8/28/20 Conf. call w/chairman and counsel	8470 · Ag Meeting Attend -Special	125.00



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Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						1,750.00
Bill Pmt -Check	09/16/2020	22402	PRAXAIR DISTRIBUTION, INC.	98871053	1012 · Bank of America Gen'l Ckg	
Bill	09/10/2020	98871053		GW quality supplies	7103.6 · Grdwtr Qual-Supplies	46.38
TOTAL						46.38
Bill Pmt -Check	09/16/2020	22403	SOCIETY FOR HUMAN RESOURCE MANAGEM	S0731578	1012 · Bank of America Gen'l Ckg	
Bill	09/15/2020	S0731578		Membership-JJoswiak 12/01/20-11/30/21	6111 · Membership Dues	219.00
TOTAL						219.00
Bill Pmt -Check	09/16/2020	22404	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	09/30/2020			Retiree Medical	60182.4 · Retiree Medical	30.72
TOTAL						30.72
Bill Pmt -Check	09/16/2020	22405	VERIZON WIRELESS	9862135765	1012 · Bank of America Gen'l Ckg	
Bill	09/15/2020	9862135765		Acct #470810953-00001	6022 · Telephone	316.70
TOTAL						316.70
General Journal	09/18/2020	09/18/2020	ADP, LLC	ADP Tax Service-564166037	1012 · Bank of America Gen'l Ckg	
				ADP Tax Service for 08/08/20-564166037	1012 · Bank of America Gen'l Ckg	155.50
				ADP Tax Service for 08/22/20-564166037	1012 · Bank of America Gen'l Ckg	179.70
				ADP Tax Service for 09/05/20-564166037	1012 · Bank of America Gen'l Ckg	155.50
TOTAL						490.70
Bill Pmt -Check	09/22/2020	22406	GREAT AMERICA LEASING CORP.	27811502	1012 · Bank of America Gen'l Ckg	
Bill	09/16/2020	27811502		Invoice for August 2020 - standard payment	6043.1 · Ricoh Lease Fee	1,440.91
				Supply freight fee	6043.2 · Ricoh Usage & Maintenance Fee	8.57
TOTAL						1,449.48
Bill Pmt -Check	09/22/2020	22407	RR FRANCHISING, INC.	91654	1012 · Bank of America Gen'l Ckg	
Bill	09/16/2020	91654		9/12/20 electrostatic disinfection spraying	6024 · Building Repair & Maintenance	355.00
TOTAL						355.00
Bill Pmt -Check	09/22/2020	22408	TOM DODSON & ASSOCIATES	CB271 20-9	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2020	CB271 20-9		August 2020 - OBMP Update PEIR	6908.1 · 2020 OBMP Update-Dodson & Assoc	6,862.50
TOTAL						6,862.50
Bill Pmt -Check	09/23/2020	22409	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
Bill	08/31/2020	815882		815882	6078 · BHFS Legal - Miscellaneous	28,677.60
				Miscellaneous	6078 · BHFS Legal - Miscellaneous	2.00

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	08/31/2020	815883		Work From Home	6073 · BHFS Legal - Personnel Matters	623.70
Bill	08/31/2020	815884		815884	6275 · BHFS Legal - Advisory Committee	2,583.90
Bill	08/31/2020	815885		815885	6375 · BHFS Legal - Board Meeting	9,930.60
Bill	08/31/2020	815886		815886	8375 · BHFS Legal - Appropriative Pool	1,425.60
Bill	08/31/2020	815887		815887	8475 · BHFS Legal - Agricultural Pool	1,425.60
Bill	08/31/2020	815888		815888	8575 · BHFS Legal - Non-Ag Pool	1,158.30
Bill	08/31/2020	815889		815889	6071 · BHFS Legal - Court Coordination	1,124.55
Bill	08/31/2020	815890		815890	6077 · BHFS Legal - Party Status Maint	178.20
Bill	08/31/2020	8105891		815891	6907.45 · OBMP Update	24,872.40
Bill	08/31/2020	815892		815892	6907.47 · 2020 Safe Yield Reset	534.60
Bill	08/31/2020	815893		815893	6078.25 · Ely 3 Basin Investigation	8,007.30
				Research-Westlaw	6078.25 · Ely 3 Basin Investigation	3,483.56
				Research - LEXIS	6078.25 · Ely 3 Basin Investigation	67.24
				Research - LEXIS	6078.25 · Ely 3 Basin Investigation	35.67
<b>TOTAL</b>						<b>84,130.82</b>
<b>Bill Pmt -Check</b>	<b>09/23/2020</b>	<b>22410</b>	<b>WILDERMUTH ENVIRONMENTAL INC</b>		<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	08/31/2020	2020307		2020307	6906.72 · OBMP-Data Req.-Non CBWM Staff	4,585.35
Bill	08/31/2020	2020308		2020308	6906.31 · OBMP-Pool, Adv. Board Mtgs	9,062.60
Bill	08/31/2020	2020309		2020309	6906.32 · OBMP-Other General Meetings	3,578.50
Bill	08/31/2020	2020310		2020310	6906.71 · OBMP-Data Req.-CBWM Staff	6,817.90
Bill	08/31/2020	2020311		2020311	6906.22 · Water Rights Compliance Rprting	10,489.85
Bill	08/31/2020	2020312		2020312	6906 · OBMP Engineering Services	1,264.60
Bill	08/31/2020	2020313		2020313	6906.26 · 2020 OBMP Update	11,500.95
Bill	08/31/2020	2020314		2020314	6906.73 · OBMP-2020 Safe Yield Recalc	3,751.51
Bill	08/31/2020	2020315		2020315	6906.81 · Prepare Annual Reports	1,781.15
Bill	08/31/2020	2020316		2020316	6906.15 · Integrated Model Mtgs-IEUA Cost	1,084.00
Bill	08/31/2020	2020317		2020317	7103.3 · Grdwtr Qual-Engineering	12,559.65
Bill	08/31/2020	2020318		2020318	7104.3 · Grdwtr Level-Engineering	9,603.13
Bill	08/31/2020	2020319		2020319	7107.2 · Grd Level-Engineering	1,688.44
				Guida Surveying Inc.	7107.6 · Grd Level-Contract Svcs	722.41
Bill	08/31/2020	2020320		2020320	7107.2 · Grd Level-Engineering	45.20
Bill	08/31/2020	2020321		2020321	7402 · PE4-Engineering	27,497.55
Bill	08/31/2020	2020322		2020322	7402.10 · PE4 - Northwest MZ1 Area Proj.	8,234.10
Bill	08/31/2020	2020323		2020323	7109.3 · Recharge & Well - Engineering	1,627.20
Bill	08/31/2020	2020324		2020324	7202.2 · Engineering Svc	1,487.50
Bill	08/31/2020	2020325		2020325	7206.1 · SB88 Specs-Ensure Compliance	8,991.20
Bill	08/31/2020	2020326		2020326	7502 · PE6&7-Engineering	5,657.20
Bill	08/31/2020	2020327		2020327	7510 · PE6&7-IEUA Salinity Mgmt. Plan	8,962.15
Bill	08/31/2020	2020328		2020328	7511 · PE6&7-SAWBMPTask Force-50% IEU)	578.60

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Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						141,570.74
Bill Pmt -Check	09/24/2020	ACH 092420	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	09/19/2020	09/19/2020	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 09/06/20-09/19/20	2000 · Accounts Payable	8,586.15
TOTAL						8,586.15
Bill Pmt -Check	09/24/2020	ACH 092420	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	09/01/2020	16158145		Annual Unfunded Accrued Liability-Plan 3299	60180 · Employers PERS Expense	7,622.21
TOTAL						7,622.21
General Journal	09/24/2020	09/24/2020	Payroll and Taxes for 09/06/20-09/19/20	Payroll and Taxes for 09/06/20-09/19/20	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 09/06/20-09/19/20	1012 · Bank of America Gen'l Ckg	29,775.44
				Payroll Taxes for 09/06/20-09/19/20	1012 · Bank of America Gen'l Ckg	9,970.22
			ICMA-RC	457(b) EE Deductions for 09/06/20-09/19/20	1012 · Bank of America Gen'l Ckg	5,476.92
			ICMA-RC	401(a) EE Deductions for 09/06/20-09/19/20	1012 · Bank of America Gen'l Ckg	1,562.57
TOTAL						46,785.15
Bill Pmt -Check	09/24/2020	22411	BLUERIDGE SOFTWARE, INC.	10465	1012 · Bank of America Gen'l Ckg	
Bill	09/15/2020	10465		Annual support for 10/25/20-10/24/21	6054 · Computer Software	629.82
TOTAL						629.82
Bill Pmt -Check	09/24/2020	22412	EGOSCUE LAW GROUP, INC.	July 2020	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2020	August 2020		Ag Pool Legal Services - August 2020	8467 · Ag Legal & Technical Services	32,087.50
TOTAL						32,087.50
Bill Pmt -Check	09/24/2020	22413	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	09/11/2020	L0531032		L0531032	7103.5 · Grdwtr Qual-Lab Svcs	5,024.00
Bill	09/17/2020	L0532063		L0532063	7103.5 · Grdwtr Qual-Lab Svcs	3,140.00
Bill	09/18/2020	L0532211		L0532211	7103.5 · Grdwtr Qual-Lab Svcs	3,270.00
TOTAL						11,434.00
Bill Pmt -Check	09/24/2020	22414	LOEB & LOEB LLP	1906751	1012 · Bank of America Gen'l Ckg	
Bill	08/31/2020	1906751		Non-Ag Pool Legal Services - August 2020	8567 · Non-Ag Legal Service	2,838.60
TOTAL						2,838.60
Bill Pmt -Check	09/24/2020	22415	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	09/15/2020	00492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	903.53
TOTAL						903.53
Bill Pmt -Check	09/24/2020	22416	UNITED HEALTHCARE	052551590554	1012 · Bank of America Gen'l Ckg	

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Bill	09/15/2020	052551590554		Dental Insurance Premium - October 2020	60182.2 · Dental & Vision Ins	805.17
TOTAL						<u>805.17</u>
<b>Bill Pmt -Check</b>	<b>09/24/2020</b>	<b>22417</b>	<b>VERIZON WIRELESS</b>	<b>9862732444</b>	<b>1012 · Bank of America Gen'l Ckg</b>	
Bill	09/15/2020	9862732444		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	58.03
TOTAL						<u>58.03</u>
					<b>Total Disbursements:</b>	<b><u><u>1,099,996.15</u></u></b>

# CHINO BASIN WATERMASTER

## II. BUSINESS ITEMS

### A. CONSIDERATION OF THE 2020 OPTIMUM BASIN MANAGEMENT PROGRAM



## CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.  
General Manager

### STAFF REPORT

DATE: October 15, 2020

TO: Advisory Committee

SUBJECT: Consideration of the 2020 Optimum Basin Management Program (Business Item II.A.)

#### SUMMARY:

Issue: The 2020 Optimum Basin Management Program, completed in January 2020, is brought forward for advice and assistance from the parties prior to adoption by the Watermaster Board.

Recommendation: Provide Advice and Assistance to the Watermaster Board

Financial Impact: None

#### Future Consideration

**Advisory Committee – October 15, 2020:** Advice and Assistance

**Watermaster Board – October 22, 2020:** Adoption [Discretionary function (OBMP)]

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#### ACTIONS:

**Appropriative Pool – August 13, 2020:** No advice or assistance was offered

**Agricultural Pool – August 13, 2020:** No advice or assistance was offered

**Non-Agricultural Pool – August 14, 2020:** Provided advice and assistance

**Advisory Committee – August 20, 2020:** Provided advice and assistance

**Watermaster Board – August 25, 2020:** Information only

**Appropriative Pool – September 10, 2020:** Provided advice and assistance

**Agricultural Pool – September 10, 2020:** Provided advice and assistance

**Non-Agricultural Pool – September 11, 2020:** Provided advice and assistance

**Advisory Committee – September 17, 2020:** Unanimously recommended the Board to postpone consideration of the 2020 OBMP for one or two months to allow for consideration of further comments.

**Watermaster Board – September 24, 2020:** Postponed the consideration of the 2020 OBMP to October 2020

**Appropriative Pool – October 8, 2020:** No advice or assistance was offered

**Agricultural Pool – October 8, 2020:** No advice or assistance was offered

**Non-Agricultural Pool – October 9, 2020:** No advice or assistance was offered

*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

In September 2018, the Watermaster initiated the process to update its Optimum Basin Management Program (OBMP). The current (2000) OBMP contains a set of management programs that improve the reliability and long-term sustainability of the Chino Basin and the water supply reliability of the Judgment Parties. The framework for developing the OBMP—including the goals of the Parties, the hydrologic understanding of the basin, the institutional and regulatory environment, an assessment of the impediments to achieving the Parties' goals, and the actions required to remove the impediments and achieve the goals—were all based on 1998-1999 conditions. Many of the projects and management programs envisioned in the 2000 OBMP have been implemented, though some have not. The understanding of the hydrology and hydrogeology of the Chino Basin has improved since 2000, and new water-management issues have been identified. Of particular importance was the need to update the Watermaster's Storage Management Plan to accommodate current planning conditions. Additionally, the PEIR and SEIR for the OBMP are nineteen and nine years old, respectively. Because the knowledge of the basin's characteristics has improved since these CEQA documents were adopted, water management challenges have intensified, and environmental considerations have changed, it was determined that an updated PEIR will better support decision-making, investment, and grant applications for ongoing and new management actions under the OBMP.

The 2020 OBMP Update was facilitated using a collaborative stakeholder process like that employed for the development of the 2000 OBMP. Throughout 2019, Watermaster held a series of public listening sessions to support the development of the 2020 OBMP Update. The purpose of the listening sessions was to obtain information, ideas, and feedback from the stakeholders to define their issues, needs, and wants; their collective goals for the 2020 OBMP Update; impediments to achieving the goals; the management actions required to remove the impediments; and a proposed plan to implement the management actions.

Watermaster established an OBMP Update Team to facilitate the stakeholder process, composed of Watermaster staff, Watermaster legal counsel, engineers and scientists from Wildermuth Environmental Inc. (WEI; Watermaster's engineering consultant), and IEUA staff. The OBMP Update Team provided key information prior to and during each listening session to enable the stakeholders to provide their input on each topic discussed. The objectives were to communicate the process for updating the OBMP, to ensure that the ideas and opinions of every stakeholder were heard, to present the information that will be considered for inclusion in the OBMP Update, and to ensure the stakeholder feedback is captured correctly.

The OBMP Update Team held eight listening sessions on the following dates:

- Listening Session 1: January 15, 2019
- Listening Session 2: February 12, 2019
- Listening Session 3: March 21, 2019
- Listening Session 4: May 16, 2019
- Listening Session 5: July 31, 2019
- Listening Session 6: September 11, 2019
- Listening Session 7: October 17, 2019
- Listening Session 8: December 11, 2019

The objectives of the first four listening sessions were (1) to confirm the need to update the OBMP; (2) to identify the issues, needs, and wants of the stakeholders; (3) to define goals for the 2020 OBMP Update; and (4) to identify new and revised activities that could be included in the 2020 OBMP Update to remove impediments to achieving the 2020 OBMP Update goals. The *2020 OBMP Scoping Report* (Scoping Report) summarized and integrated the work products of these four listening sessions and described the recommended scope of work to implement each of the "2020 OBMP Update Activities" defined by the stakeholders. The draft Scoping Report was published in parts on July 24, 2020 and August 22, 2020.

The objectives of Listening Sessions 5 and 6 were to present and obtain feedback on the scopes of work described in Section 3 of the Scoping Report. The objective of Listening Session 7 was to present and obtain feedback on the integration of the 2020 OBMP Update Activities defined in the Scoping Report with

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the 2000 OBMP Program Elements (PEs). The feedback was used to finalize the Scoping Report, which was published on November 22, 2020 along with a draft of the *2020 OBMP Update Report* (2020 OBMPU). The objectives of Listening Session 8 were to present and obtain feedback on the recommended 2020 OBMP management plan documented in the draft 2020 OBMPU and to begin discussions on the 2020 OBMP Implementation Plan and implementation agreements. The Storage Management Plan was developed in a parallel process and ultimately integrated in the final 2020 OBMPU.

The final *2020 OBMP Update Report* (Attachment 1) was published on January 24, 2020. The report describes the 2020 OBMP Update process (Section 1); the OBMP goals and new activities for the 2020 OBMP Update (Section 2); the status of the OBMP PEs and ongoing activities within them (Section 3), including the new 2020 Storage Management Plan; and the recommended 2020 OBMP management plan – inclusive of ongoing and new activities (Section 4). The management plan in Section 4 forms the foundation for the Parties to develop a final implementation plan (2020 OBMP Implementation Plan) and the agreements necessary to implement it (e.g. amendments to the Peace Agreements).

The management plan described in Section 4 of the 2020 OBMPU retains the nine PEs defined in the 2000 OBMP and is based on the ongoing 2000 OBMP implementation actions and includes the new implementation actions defined in the 2020 OBMP Update process. Implementation of the management plan described in Section 4 may or may not result in the construction of new facilities, and nothing in this document obligates Watermaster or the Parties to implement the optimization recommendations. However, some of the implementation actions included in the management plan are required by Watermaster to administer the Physical Solution or comply with other Watermaster or regulatory requirements. These required implementation actions may or may not result in the development and implementation of projects. Exhibit 17 of the 2020 OBMPU (Attachment 2) summarizes the complete management plan, inclusive of all PEs. Exhibit 17 lists each implementation action and characterizes if they originated from the 2000 OBMP or the 2020 OBMP Update and whether Watermaster deems their implementation required to administer the Physical Solution of the Judgment or comply with other regulatory or Watermaster requirements, including the basis for the requirements.

During the development of the 2020 OBMP Update, Board members regularly attended the Listening Sessions and the Watermaster Board received regular updates from staff.

The item was presented to the Pool Committees during their August 13 and 14, 2020 meetings; the ONAP offered advice to advance storage management. The item was also presented to the Advisory Committee in August 2020 and advice and assistance was provided.

The item was presented to the three Pools during the September 2020 meetings and further advice and assistance was provided.

At the September 2020 Advisory Committee meeting the Appropriate Pool Committee members expressed that they would like to submit additional comments prior to the September 24, 2020 Board meeting, and therefore recommend the Watermaster Board to postpone consideration of the 2020 OBMP.

On September 23, 2020 Watermaster received comments from the Appropriate Pool and individual stakeholders (Attachments 3-5) and is currently processing the comments and developing responses. The comments may result in targeted changes to the 2020 OBMP report.

The item was presented to the three Pools at the October meetings and no further advice or assistance was provided.

## DISCUSSION

In accordance with Paragraph 41 of the Restated Judgment that reads: "Watermaster Control. Watermaster, with the advice of the Advisory and Pool Committees, is granted discretionary powers in order

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to develop an optimum basin management program for the Chino Basin, including both water quantity and quality considerations. Withdrawals and supplemental water replenishment of Basin Water, and the full utilization of the water resources of Chino Basin, must be subject to procedures established by and administered through Watermaster with the advice and assistance of the Advisory and Pool Committees composed of the affected producers. Both the quantity and quality of said water resources may thereby be preserved and the beneficial utilization of the Basin maximized.” Watermaster has engaged the Pool and Advisory Committee members, as well as other regional stakeholders in the development of the 2020 Optimum Basin Management Program Update.

The 2020 OBMP Update report was developed after an exhaustive participatory process throughout 2019, with workshops and listening sessions as detailed in the background section. The report was concluded and made available to the parties on January 2020 and the environmental review process to enable implementation of any elements of the 2020 OBMP Update followed shortly after in February 2020.

As part of the 2020 OBMP Update process, Watermaster initiated a process to support the parties in the drafting of the 2020 OBMP Implementation Plan in March 2020. The Implementation Plan is required to implement the parties’ suggested activities included in the 2020 OBMP Update.

Approval of the 2020 OBMP Update does not bind any of the parties to implement or participate in the activities proposed. The OBMP Implementation Plan Update would be the vehicle in which parties will agree to implement the activities and it would be memorialized in an Implementation Agreement.

The process to develop an OBMP Implementation Plan Update and an Implementation Agreement was paused in consideration of the COVID-19 pandemic and is expected to resume in the coming months.

During the September 17, 2020 Advisory Committee meeting Appropriate Pool parties stated their intent to submit specific language related to recycled water, the Santa Ana River obligation, and economic considerations of certain actions, and that a pause in the scheduled consideration of the 2020 OBMP by the Watermaster Board would afford an opportunity to consider these suggestions. Staff believes that Watermaster’s document is enhanced by considering stakeholder input and is willing to review any and all suggestions.

Watermaster staff is evaluating the comments offered on September 23, 2020 (Attachments 3-5) and intends to distribute and discuss the proposed disposition of the comments in the near term. During the October 8 and 9, 2020 meetings the Pool Committees were requested to offer any further advice and assistance. The item will be brought to the Advisory Committee during its October 15, 2020 meeting to solicit any further advice and assistance. Watermaster will host a meeting on October 13 to present the disposition of comments received on September 23.

The Watermaster Board will be asked to consider the 2020 OBMP in October, or November if necessary, to allow time for further review.

## ATTACHMENTS

1. 2020 Optimum Basin Management Program Update (Click on this [link](#) to access.)
2. Implementation Actions for the 2020 OBMP Update by Program Elements (2020 OBMP Exhibit 17)
3. Letter from the Appropriate Pool to the Watermaster Board Re: Consideration of the 2020 Optimum Basin Management Program Update
4. Letter from City of Ontario to the Watermaster Board Re: Optimum Basin Management Plan Update Report [sic]
5. Letter from Monte Vista Water District to Peter Kavounas Re: Optimum Basin Management Plan Update Report -Suggested modifications [sic]

**II. BUSINESS ITEMS**

**A. CONSIDERATION OF THE 2020 OPTIMUM BASIN MANAGEMENT PROGRAM UPDATE**

Click on this [link](#) for the 2020 Optimum Basin Management Program Update Report

**Exhibit 17  
Implementation Actions for the 2020 Optimum Basin Management Program Update by Program Element**

Implementation Actions for the Next 20 Years by Program Element	Action Added in 2000* or 2020?	Schedule (Yr 1-3, 4-20, or 1-20)	Is the Action Required by Watermaster to Administer the Physical Solution or Comply with Other Regulatory or Court Requirements?	
			Yes/No	Basis
<b>Program Element 1 - Develop and Implement Comprehensive Monitoring Program</b>				
Watermaster will continue to conduct the required monitoring and reporting programs, including collection of: groundwater production, groundwater level, groundwater quality, ground level, surface water, climate, water supply planning, biological, and well construction/destruction monitoring data.	2000*	Years 1-20	Yes	This action included in the 2000 OBMP IP is required by the July 2000 Court Order to implement the Peace Agreement. The monitoring requirements have evolved over time. The requirements are described in Table 2 of the OBMP Update Report, which lists each Watermaster monitoring and reporting program and the associated entity (e.g. Court, Regional Board, etc.) requiring each program. These actions will allow the Parties to offer more direct input in the implementation of the required monitoring programs, but it is not necessary for Watermaster to convene this process to comply with the monitoring requirements. Watermaster annually reviews ongoing monitoring to achieve efficiency.
Perform review and update of Watermaster’s regulatory and Court-ordered monitoring and reporting programs and document in a work plan: <i>OBMP Monitoring and Reporting Work Plan</i> .	2020	Years 1-3	No	
Perform periodic review and update of the <i>OBMP Monitoring and Reporting Work Plan</i> (or other guidance documents developed by Watermaster) and modify the monitoring and reporting programs, as appropriate.	2020	Years 4-20	No	
<b>Program Element 2 - Develop and Implement Comprehensive Recharge Program</b>				
Continue to convene the Recharge Investigations and Projects Committee.	2000	Years 1-20	Yes	These actions included in the 2000 OBMP IP are required by the July 2000 Court Order to implement the Peace Agreement. The Peace II Agreement and the Special Referee’s December 2007 Report further establish the requirement and need for the recharge program. In its December 2007 Order, the Court ordered the implementation of the Peace II Agreement.
Complete the 2023 Recharge Master Plan Update (RMPU).	2000*	Years 1-3	Yes	
Implement recharge projects based on need and available resources.	2000	Years 1-20	Yes	
Update the RMPU no less than every five years (2028, 2033, 2038).	2000	Years 4-20	Yes	
<b>Program Element 3 - Develop and Implement a Water Supply Plan for Impaired Areas</b>				
n/a				As described in Section 3.2.3.2 of the 2020 OBMP Update report, there are no separate implementation actions for PE3 in the 2020 OBMP. The ongoing operation of the Chino Basin Desalters, which were the subject of the implementation actions of PE 3 in the 2000 OBMP is now part of PE 7 to Develop and Implement a Salt Management Program.
<b>Program Element 4 - Develop and Implement Comprehensive Groundwater Management Plan for Management Zone 1</b>				
Implement Watermaster’s Subsidence Management Plan, and adapt it as necessary.	2000*	Years 1-20	Yes	These actions included in the 2000 OBMP are required by the July 2000 Court Order to implement the Peace Agreement. The Peace II Agreement established further requirements for the continued recharge in MZ-1 through the term of the Peace Agreement.
Watermaster will arrange for the physical recharge of at least 6,500 any of Supplemental Water in MZ-1 as an annual average. Watermaster may re-evaluate the minimum annual quantity of Supplemental Water recharge in MZ-1 and may increase this quantity through the term of the Peace Agreement.	2000*	Years 1-20	Yes	

**Exhibit 17**

**Implementation Actions for the 2020 Optimum Basin Management Program Update by Program Element**

Implementation Actions for the Next 20 Years by Program Element	Action Added in 2000* or 2020?	Schedule (Yr 1-3, 4-20, or 1-20)	Is the Action Required by Watermaster to Administer the Physical Solution or Comply with Other Regulatory or Court Requirements?	
			Yes/No	Basis
<b>Program Element 5 - Develop and Implement Regional Supplemental Water Program</b>				
The IEUA will maximize the reuse of its recycled water in the Chino Basin.	2000*	Years 1-20	Yes	Pursuant to the Basin Plan, IEUA and Watermaster are required to maximize recycled water reuse in the Chino-North GMZ consistent with the Maximum Benefit SNMP.
The IEUA, the TVMWD, the WMWD, and/or other Party acting as a coordinating agency will establish or expand future recycled water planning efforts to maximize the reuse of all available sources of recycled water.	2020	Years 1-20	No	Although these actions optimize the management of all available recycled water supplies to achieve water supply reliability, they are not required by Watermaster to administer the Physical Solution or other regulatory requirements. These implementation actions are included as part of the 2020 OBMP Update to complement regional planning efforts, not to duplicate them.
Watermaster will support the IEUA, the TVMWD, the WMWD, and/or others in their efforts to maximize recycled water reuse to ensure these efforts are integrated with Watermaster's groundwater and salinity management efforts.	2020	Years 1-20	No	
The IEUA, the TVMWD, the WMWD, and/or other Party acting as a coordinating agency will establish or expand future integrated water resources planning efforts to address water supply reliability for all Watermaster Parties.	2020	Years 1-20	No	
Watermaster will support the IEUA, the TVMWD, the WMWD, and/or others in their efforts to improve water supply reliability to ensure those efforts are integrated with Watermaster's groundwater management efforts.	2020	Years 1-20	No	Although these actions optimize the management of all available water supplies to achieve water supply reliability, they are not required by Watermaster to administer the Physical Solution or other regulatory requirements. These implementation actions are included as part of the 2020 OBMP Update to complement regional planning efforts, not to duplicate them.
<b>Program Element 6 - Develop and Implement Cooperative Programs with the Regional Board and Other Agencies to Improve Basin Management</b>				
Re-convene the water quality committee and meet periodically to update groundwater quality management priorities.	2000*	Years 1-3	Yes	Paragraph 41 of the Judgment states: "Watermaster Control. Watermaster, with the advice of the Advisory and Pool Committees, is granted discretionary powers in order to develop an optimum basin management program for Chino Basin, including both water quantity and quality considerations. Withdrawals and supplemental water replenishment of Basin Water, and the full utilization of the water resources of Chino Basin, must be subject to procedures established by and administered through Watermaster with the advice and assistance of the Advisory and Pool Committees composed of the affected producers. Both the quantity and quality of said water resources may thereby be preserved and the beneficial utilization of the Basin maximized." (Pgs. 19-20 of the Restated Judgment) If water quality is not considered and effectively managed, the Parties may not be able to utilize their water rights, which could result in negative impacts to the basin, such as reductions in net recharge, loss of hydraulic control, and movement of contaminant plumes. Effective management of water quality in the Basin to preserve maximum beneficial use can only be accomplished through a systematic assessment of the emerging contaminant threats to the use of groundwater resources, and thoughtfully preparing a plan to respond to those threats.
Develop and implement an initial emerging contaminants monitoring plan.	2020	Years 1-3	Yes	
Prepare a water quality assessment of the Chino Basin to evaluate the need for a <i>Groundwater Quality Management Plan</i> and prepare a long-term emerging contaminants monitoring plan.	2020	Years 1-3	Yes	
Develop and implement a <i>Groundwater Quality Management Plan</i> and periodically update it.	2020	Years 4-20	Yes	
Implement long-term emerging contaminants monitoring plan.	2020	Years 4-20	Yes	
Continue to conduct investigations to assist the parties and/or the Regional Board in accomplishing mutually beneficial objectives as needed.	2000	Years 1-20	Yes	This action included in the 2000 OBMP is required by the July 2000 Court Order to implement the Peace Agreement. Recommendations for investigations will be made to Watermaster by the Water Quality Committee.
Continue to support the Parties in identifying funding from outside sources to finance cleanup efforts.	2000	Years 1-20	Yes	This action included in the 2000 OBMP is required by the July 2000 Court Order to implement the Peace Agreement. Requests for support will be made to Watermaster by the Water Quality Committee.
Implement projects of mutual interest.	2000	Years 1-20	No	The implementation of projects is not required by the 2000 OBMP IP, however Watermaster is required to support the Parties, as requested by the Committee, and as appropriate.

**Exhibit 17**

**Implementation Actions for the 2020 Optimum Basin Management Program Update by Program Element**

Implementation Actions for the Next 20 Years by Program Element	Action Added in 2000* or 2020?	Schedule (Yr 1-3, 4-20, or 1-20)	Is the Action Required by Watermaster to Administer the Physical Solution or Comply with Other Regulatory or Court Requirements?	
			Yes/No	Basis
<b>Program Element 7 - Develop and Implement Salt Management Plan</b>				
Continue to implement the maximum benefit salt and nutrient management plan pursuant to the Basin Plan.	2000*	Years 1-20	Yes	Watermaster and IEUA must perform these actions pursuant to the maximum benefit SNMP in the Basin Plan.
Complete the 2020 update of TDS and nitrate projections to evaluate compliance with maximum benefit salt and nutrient management plan, and, if necessary, based on the outcome, prepare a plan and schedule to implement a salt offset compliance strategy.	2020	Years 1-3	Yes	Watermaster and IEUA have already begun this project and are required to complete it by the Regional Board to obtain a revised recycled water compliance program related to total dissolved solids concentrations.
Starting in 2025 and every five years thereafter, update water quality projections to evaluate compliance with the maximum benefit salt and nutrient management plan.	2020	Years 4-20	Yes	Watermaster and IEUA will be required to perform these actions pursuant to an anticipated amendment to the maximum benefit SNMP in the Basin Plan.
<b>Program Element 8/9 - Develop and Implement Groundwater Storage Program <u>and</u> Develop and Implement Storage and Recovery Programs</b>				
Complete and submit to the Court the 2020 Safe Yield Recalculation.	2000*	Years 1-3	Yes	The 2000 OBMP IP identified the ten-year recalculation requirement, which is binding on Watermaster through the 2000 Court Order. Additionally, section 4.2 of the April 2017 Court Order that followed the 2015 Safe Yield Reset further establishes the date by which the next 10-year updates must occur (2020) and affirms the 10-year update frequency.
Complete and submit to the Court the 2020 Storage Management Plan (SMP).	2020	Years 1-3	Yes	Paragraph 41 of the Judgment requires "...procedures to be established and administered through Watermaster with the advice and assistance of the Advisory and Pool Committees for the withdrawals and supplemental water replenishment of Basin water..." The SMP in the 2000 OBMP is insufficient to meet the needs of the Parties as storage already exceeds the limits in the established procedures. A new SMP is required to issue storage agreements as of July 1, 2020. And, the CEQA coverage for the existing SMP expires in July 2021.
Develop a <i>Storage and Recovery Master Plan</i> to support the design of optimized storage and recovery programs that are consistent with the 2020 Storage Management Plan and provide the Watermaster with criteria to review, condition, and approve applications in a manner that is consistent with the Judgment and the Peace Agreement.	2020	Years 1-3	Yes	Section 5.2.c.iv.(b) of the Peace Agreement states that "Watermaster shall prioritize its efforts to regulate and condition the storage and recovery of water developed in a Storage and Recovery Program for the mutual benefit of the Parties to the Judgment and give first priority to Storage and Recovery Programs that provide broad mutual benefits." Watermaster must document the basis by which it will review, condition, and approve applications in a manner that is predictable, uniform, and consistent with the Peace Agreement and the 2020 SMP. A master plan is the most efficient process to do this.
Assess losses from storage accounts based on the findings of the 2020 Safe Yield Recalculation.	2000*	Years 1-3	Yes	Section 5.2.b.xii of the Peace Agreement requires that Watermaster shall set the annual rate of loss from Local Storage for parties to the Judgment at zero through 2005. Thereafter, the rate of loss from Local Storage for parties to the Judgment will be 2% until recalculated based upon the based available scientific information. Losses will be deducted annually from each party to the Judgment's storage account. The loss rate is assessed as part of the Safe Yield recalculation.
Update the Storage Management Plan in 2025 and every five years thereafter, and when: the Safe Yield is recalculated, Watermaster determines a review and update is warranted based new information and/or the needs of the parties or the basin, and at least five years before the aggregate amount of managed storage by the parties is projected to fall below 340,000 af.	2020	Years 4-20	Yes	The 2020 SMP is based on present planning projections and technical understanding of the basin. This information can change over time and the limits established in the 2020 SMP must be revisited from time to time to ensure it meets the needs of the Parties. These triggers for updating the SMP are defined in the 2020 SMP.
Perform Safe Yield recalculation every 10 years.	2000	Years 4-20	Yes	See above basis for the 2020 Safe Yield recalculation.
Update the storage loss rate following each recalculation of Safe Yield and during periodic updates of the SMP.	2020	Years 4-20	Yes	See above basis for assessing losses based on the 2020 Safe Yield recalculation. The loss rate may also be evaluated in future SMP updates.

\*For the 2000 OBMP implementation actions annotated with a "\*\*", the description of the action has been modernized to reflect current terminology, reports, and requirements established after the 2000 OBMP was finalized.

## Appropriative Pool

Chair: John Bosler  
Vice-Chair: Cris Fealy

### Chino Basin Watermaster

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



September 23, 2020

**Watermaster Board**  
**9641 San Bernardino Road**  
**Rancho Cucamonga, CA 91730**

### Consideration of the 2020 Optimum Basin Management Program Update

Dear Watermaster Board,

The Appropriative Pool is appreciative of Watermaster Staff's consideration of suggested modifications to the currently drafted Optimum Basin Management Plan (OBMP) Update Report. At the September 17, 2020 meeting, the Advisory Committee developed a recommendation to the Board of Directors that they postpone consideration to approve the OBMP Update Report for one to two months. This time will help facilitate some further refinement of the document prior to approval.

To help support this effort, the Appropriative Pool committed to submitting suggested areas within the document where the topic of the Santa Ana River (SAR) obligation is addressed. Members of the Appropriative Pool have subsequently met with IEUA on September 21, 2020 to consider and collaborate on the topic. The attached document is the result of that collaboration with IEUA.

We recognize that Watermaster Staff will need to consider this information and will have additional comments and considerations that will be important to include in the final document. Further, during this time, individual parties may have other comments or recommendations that they may submit for consideration.

We look forward to participating and working with Watermaster to achieve success through the subsequent approval process of the OBMP Update Report. We recognize the importance of timely completion so we can carry that momentum into completing the critical Implementation Plan and Agreement phase.

We sincerely appreciate the assistance of IEUA, Watermaster Staff and the Board of Directors in the accommodation of this request.

Sincerely,

John Bosler  
Appropriative Pool

Encl: Attachment – OBMP Update Comments

Attachment – OBMP Update Comments  
September 23, 2020

The OBMP Update is a long-term planning document that revisits the needs of the Chino Basin at a high level in order to update the goals, activities and implementation actions for the nine program elements. The following is a summary intended to help communicate how the 34,000 AF/year Santa Ana River Base Flow (SAR) obligation at Prado, and related impacts, should be incorporated into the draft OBMP Update Report.

Introduce the topic in Section 1 (Introduction and Background)

- The Chino Basin Judgment, physical solution and OBMP are very much related to the Orange County Judgment, physical solution and the joint SAR obligation of 34,000 AF at Prado.
  
- Section 1.2 (Need for the 2020 OBMP Update) states that the strategic drivers and trends that shaped the goals and activities in the late 1990's have since changed. One of the significant changes is that recycled water generated within the IEUA service area is being substantially consumed by the local agencies with a very successful recycled water program implemented over the past 20 years. Include this as the "for example" in paragraph 2 of Section 1.2.

Changes to Program Element 5 (Develop and Implement Regional Supplemental Water Program)  
starting on 35.

- Remove the reference to 17,000 AF and IEUA prioritizing the use of recycled water to meet the SAR obligation above direct use and recharge.
  
- The Santa Ana River (SAR) Judgment ("Judgment") is the result of a water rights dispute in which water users downstream from Prado Dam were seeking an adjudication of water rights against substantially all water users in the area tributary to Prado Dam within the SAR Watershed, including the producers in the Chino Basin. The 1969 Judgment dismissed all defendants and cross-defendants except for the four major public water districts overlying (Inland Empire Utilities Agency (then Chino Basin Municipal Water District), Orange County Water District, San Bernardino Valley Municipal Water District (SBVMWD) and Western Municipal Water District (WMWD), in aggregate, substantially all of the major areas of water use in the watershed; IEUA, in particular, accepted the obligation on behalf of the Chino Basin.
  
- The Prado Agreement defined the shared responsibility for the 34,000 AF Base Flow obligation at Prado. IEUA's portion of this responsibility is commonly referred to as the SAR Base Flow obligation at Prado. IEUA currently uses available recycled water to contribute towards the SAR Base Flow obligation, although it is not limited to using recycled water.
  
- The SAR Base Flow obligation at Prado is a demand based consideration that impacts the Chino Basin in its water resource planning including Activity D (Maximize the reuse of recycled water produced by the IEUA and others) found on page 17 of the draft OBMP Update Report. There is also a relationship between the reuse of recycled water and other elements and activities of the OBMP such as groundwater recharge, securing other supplemental supplies, TDS and other Basin water quality issues. There should be a high-level recognition of this in the document (for example, similar to the narrative on CBP, water quality or storage and recovery). The OBMP

Update goals should be revised accordingly (such as impediments and activities shown on goal 1 of exhibit 5).

Changes to Section 4 (OBMP Update Management Plan, Program Element 5) on page 57

- The Implementation Actions for Program Element 5 (Develop and Implement Regional Supplemental Water Program) includes expanding future recycled water planning efforts and expanding future integrated water resources planning efforts. The narrative of this section includes improving the availability of recycled water, imported water and identifying the intent to maximize the reuse of recycled water. The suggested changes in this attachment should find their way into this narrative at a very high level.





ONTARIO MUNICIPAL UTILITIES COMPANY

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MAYOR

DEBRA DORST-PORADA  
MAYOR PRO TEM

ALAN D. WAPNER  
JIM W. BOWMAN  
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COUNCIL MEMBERS

September 23, 2020

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CITY MANAGER

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SCOTT BURTON  
UTILITIES GENERAL MANAGER

Chino Basin Watermaster  
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### Optimum Basin Management Plan Update Report

Dear Watermaster Board of Director's,

The City of Ontario (City) appreciates the opportunity to provide comments and suggested revisions to the currently drafted Optimum Basin Management Plan (OBMP) Update Report. At the September 17, 2020 meeting, the Advisory Committee recommended that the Chino Basin Watermaster (Watermaster) Board postpone consideration of the OBMP Update Report for one to two months to allow for consideration of further comments.

The City is writing this letter to provide further advice and assistance to the Watermaster Board regarding its consideration and potential approval of the Optimum Basin Management Program (OBMP) Update Report. Throughout this OBMP Update process Ontario has consistently held and shared the belief that there is a significant water resources topic that should be identified and addressed in the OBMP Update and subsequent environmental review. Unfortunately, this topic has yet to be considered in the OBMP Update Report in a meaningful way and was only narrowly identified in the environmental review without exploration of alternatives from the historical status quo. For this reason, expanded on herein, Ontario does not recommend approval of the OBMP Update Report at this point. Ontario is supportive of the approach expressed in the Appropriate Pool letter submitted to Watermaster this week.

One of the first written comments Ontario provided on this topic was in December 2018 in response to the draft OBMP Update White Paper and quoted below.

“[T]he recycled water supply (via IEUA) is at risk of becoming over-subscribed and has further seasonal limitations. The OBMP needs to fully understand and consider the availability of this resource. As this threshold is approached, plans for additional direct use, recharge, continued SAR obligation, potential Prop 1 (CBP) use and new supply sources need to be considered in the collective.”

The Santa Ana River Base Flow Obligation (SAR obligation) is a complex topic stemming back to the Orange County Judgement with a relationship to the Chino Basin adjudication that followed. There is no attempt herein to explain the topic other than to say, to the extent the OBMP is a foundational groundwater and water resources planning document for the Chino Basin, it must be part of the consideration. The OBMP

Update is intended to identify changed conditions since 1998-1999 and reset objectives with a long-term planning horizon. Historically the SAR obligation has been met with excess recycled water generated under the Regional Sewerage Contract between IEUA and its member agencies. The utilization of recycled water within the Chino Basin is orders of magnitude greater than was the case at the time of the original OBMP thanks to a tremendous effort by IEUA and the retail member agencies. The OBMP Update Report sets the goal of maximizing the use recycled water; therefore, the OBMP Update Report must consider all potential uses and recognize that the future is not bound by historical practices.

As stated by Watermaster staff during the September 10, 2020 Appropriative Pool meeting, they believe that this topic should be included and responded to Ontario's expressed view by saying "I couldn't agree with you more on this" and reflected on "how is it that the Parties missed such an important thing?" The SAR topic was identified in listening session one by three agencies and raised again in listening session two by five additional agencies, all in the context of a "want" within the OBMP Update. Watermaster staff explained that it was not included in the final OBMP Update Report because of comments on Technical Memorandum Number 1. While the listening sessions and comments were numerous, there does not appear to have been any tangible conclusion to the collective input on this topic as provided by the Parties.

In December 2019 the Parties and the Watermaster Board approved the consulting agreement to complete environmental review on the OBMP Update Implementation Plan. The Appropriative Pool (and individual Parties) purposely requested that Watermaster complete environmental review on storage first and separate from the entire OBMP Update. When the request was not obliged, Ontario turned its attention to the handling of the SAR obligation in the environmental review, conducted jointly by Watermaster and IEUA with IEUA acting as the Lead Agency.

In the September 10, 2020 Appropriative Pool meeting Ontario communicated a concern that the OBMP Update staff report (for additional expenditures on the environmental review) contained an incomplete narrative and appeared to unnecessarily target Ontario. Watermaster staff indicated that the staff report was written in a manner that calls attention to Ontario because "I didn't want the spotlight to be anywhere else". The information presented in the Watermaster staff report was incomplete and misleading. It is concerning that the Watermaster narrative is not more impartial and appears to be adversarial with a Party to the Judgement who they happen to disagree with. Watermaster is managing the OBMP Update effort, including the handling of the subject topic and as such, should accept responsibility for outcome.

During the September 10, 2020 Appropriative Pool meeting Ontario asserted that they had "a heck of a time" trying to get the draft environmental document prior to issuance for public review. Watermaster staff insinuated that Ontario was not being accurate in its assertion based on Watermaster's facts. Ontario made considerable effort to address its concerns on this topic prior to and during the environmental review. Specifically related to the inaccurate narrative that Ontario waited until July 15<sup>th</sup> to make comments, the following is the chronology of events. In late February Ontario made a verbal request of Watermaster staff to obtain a copy of the draft environmental document prior to public release, which was not granted. Ontario followed up with an e-mail request on March 5, 2020 which was again, not granted. Following the email request, Ontario sent a formal letter request to Watermaster on March 13, 2020 (see attached). Ontario was then told that as individual chapters were completed, they could be reviewed at the Watermaster office. Eventually individual chapters were made available to Ontario (but not the entirety of the report). Within several days of receiving individual chapters, Ontario provided written comments to Watermaster and IEUA on March 24<sup>th</sup>.

Ontario received a response to its environmental review comments and, as stated by Watermaster staff during the September 10, 2020 Appropriative Pool meeting, "the comments were responded to and Ontario

does not accept the responses.” Ontario’s comments were focused primarily on the subject topic and its incomplete coverage including consideration of alternatives. Essentially, the response was that Ontario’s concerns would not be addressed any further in the OBMP Update and environmental review – end of story. On March 27, 2020 the environmental document was released for public review. Ontario provided similar comments as part of the public review process on May 11, 2020, received a response from IEUA prior to the Final SEIR release on July 2<sup>nd</sup>. Finally, Ontario submitted response comments to the Final SEIR on July 15, 2020.

There is no question that this significant water resources topic is worthy of real consideration in the water resources strategic planning contained within the Chino Basin OBMP Update Report. In doing so, the Parties will have a better strategy, more complete environmental review, grant funding opportunities may be more readily pursued, and it lays the groundwork for the creative solutions of the future. The City of Ontario’s advice and recommendation to the Watermaster Board is for the OBMP Update Report to define this topic, consider its implications within the context of the OBMP Update Report and provide an opportunity for the Parties to review and comment on the revised draft report prior to Watermaster Board approval.

I would also like to suggest that Watermaster and the Party’s may benefit from a “lessons learned” debriefing at the conclusion of the OBMP Update Report. If something like this is conducted Ontario would be happy to participate including meeting with individual Board Members and/or Mr. Kavounas as appropriate.

Sincerely,



Scott Burton  
Utilities General Manager

C: Peter Kavounas, Watermaster General Manager  
John Bosler, Appropriative Pool Chair  
Brian Geye, Non-Agricultural Pool Chair  
Bob Feenstra, Agricultural Pool Chair





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March 13, 2020

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SHEILA MAUTZ  
CITY CLERK

JAMES R. MILHISER  
TREASURER

SCOTT BURTON  
UTILITIES GENERAL MANAGER

**VIA EMAIL**

Peter Kavounas, General Manager  
Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**SUBJECT: STAKEHOLDER REVIEW OF DRAFT OBMP UPDATE CEQA EIR**

Dear Mr. Kavounas,

In an email to you and Shivaji Deshmukh on March 5, 2020, Scott Burton requested that the City have the opportunity to review the draft Environmental Impact Report (EIR) for the Optimum Basin Management Plan (OBMP) Update prior to the document being released for public review and comment. Subsequently, I spoke with Watermaster staff, IEUA staff, and consultants regarding this and other questions and concerns related to the OBMP CEQA documents.

It is my understanding that the draft EIR is nearly complete and that public review is scheduled to begin this month. On behalf of the City, I am requesting a copy and two to three business days to review the administrative draft of the OBMP Update EIR in advance of its release for public review. Other Watermaster parties may desire the same opportunity. It is essential for the parties who are most likely to implement the projects in the OBMP Update and who will therefore be responsible for the associated mitigation to have an opportunity to review, understand, and help shape appropriate mitigation measures.

I look forward to a collaborative and transparent process that includes all stakeholders for the benefit of the Basin and those who utilize it.

Sincerely,



Katie Gienger, P.E.  
Water Resources Manager

cc: Scott Burton, Utilities General Manager, City of Ontario  
Shivaji Deshmukh, General Manager, Inland Empire Utilities Agency  
John Bosler, Chair, Appropriative Pool



Justin Scott-Coe, PhD  
GENERAL MANAGER

September 23, 2020

Peter Kavounas  
General Manager  
Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

Delivered via email to Anna Nelson, [atruongnelson@cbwm.org](mailto:atruongnelson@cbwm.org)

**Optimum Basin Management Plan Update Report – Suggested Modifications**

Dear Mr. Kavounas,

Monte Vista Water District (District) appreciates the opportunity to provide suggested modifications to the currently drafted Optimum Basin Management Plan (OBMP) Update Report. These suggested modifications are consistent with past comments made by the District during the stakeholder process. At the September 17, 2020 meeting, the Advisory Committee recommended that the Chino Basin Watermaster (Watermaster) Board postpone consideration of the OBMP Update Report for one to two months to allow for consideration of further comments.

The District fully supports the suggested modifications regarding the Santa Ana River obligation as submitted by the Appropriate Pool.

Additionally, the District requests modifications that consider the economic impacts of projects proposed or resulting from the OBMP Update. The OBMP is a component of the Physical Solution as established under Article VI of the Chino Basin Judgment (Judgment). The Engineering Appendix (Exhibit “I”) to the Judgment establishes Basin Management Parameters, including quantity, quality, and economic considerations, required for implementation of the Physical Solution and the OBMP.

The economic impacts of projects resulting from the OBMP Update have not yet been fully considered. For example, as represented by the OBMP Update’s Draft Subsequent Environmental Impact Report, the OBMP Update proposes relocating up to 25,000 acre-feet per year of production from Chino Basin’s Management Zone 1. This proposed relocation of production would directly impact the ability of the District and other Judgment Parties to produce sufficient groundwater to meet their requirements, a key purpose and objective of the Physical Solution (see Judgment Paragraph 39).

**W a t e r   D i s t r i c t**

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Sandra S. Rose  
PRESIDENT

G. Michael Milhiser  
VICE PRESIDENT

Page 77  
Monte Vista  
DIRECTOR / BOARD AUDITOR

Philip L. Erwin  
DIRECTOR

Tony Lopez  
DIRECTOR

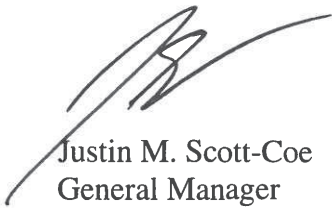
Finally, the District requests language be added or changed in the OBMP Update Report that clarifies the perspectives of Watermaster staff and Judgment Parties. While the OBMP Update Report incorporates the input of Judgment Parties, agreement among the Parties and between the Parties and Watermaster as to required activities will be accomplished through amending the Peace Agreement and OBMP Implementation Plan.

Please see the attached document for specific suggestions for how to modify the OBMP Update Report to address the above comments.

Once again, thank you for this opportunity to provide comment on this important planning document.

Sincerely,

*Monte Vista Water District*



Justin M. Scott-Coe  
General Manager

Attachment

## Monte Vista Water District Suggested Modifications to OBMP Update Report

### Section 1.1 (add language as follows)

**The Chino Basin Judgment (Judgment) adopts and requires its Parties to comply with a Physical Solution for the Chino Basin. The purpose of the Physical Solution, as stated in Paragraph 39, “is to establish a legal and practical means for making the maximum reasonable beneficial use of the waters of Chino Basin by providing the optimum economic, long-term, conjunctive utilization of surface waters, ground waters and supplemental water, to meet the requirements of water users having rights in or dependent upon Chino Basin.”**

**As part of the Physical Solution, the Judgment invests Watermaster with the discretionary authority to develop an OBMP for the Chino Basin, including both water quantity and quality considerations. Paragraph 41 (within the Physical Solution) states:**

41. Watermaster, with the advice of the Advisory and Pool Committees, is granted discretionary powers in order to develop an optimum basin management program for Chino Basin, including both water quantity and quality considerations. Withdrawals and supplemental water replenishment of Basin Water, and the full utilization of the water resources of Chino Basin, must be subject to procedures established by and administered through Watermaster with the advice and assistance of the Advisory and Pool Committees composed of the affected producers. Both the quantity and quality of said water resources may thereby be preserved and the beneficial utilization of the Basin maximized.

**The Engineering Appendix (Exhibit “I”) of the Judgment establishes the following Basin Management Parameters, including additional quantity, quality, and economic considerations, required for implementation of the Physical Solution and the OBMP:**

**1. In the process of implementing the physical solution for Chino Basin, Watermaster shall consider the following parameters:**

- (a) Pumping Patterns. - Chino Basin is a common supply for all persons and agencies utilizing its waters. It is an objective in management of the Basin’s waters that no producer be deprived of access to said waters by reason of unreasonable pumping patterns, nor by regional or localized recharge of replenishment water, insofar as such result may be practically avoided.**
- (b) Water Quality. - Maintenance and improvement of water quality is a prime consideration and function of management decisions by Watermaster.**



- (c) **Economic Considerations.** - Financial feasibility, economic impact and the cost and optimum utilization of the Basin’s resources and the physical facilities of the parties are objectives and concerns equal in importance to water quantity and quality parameters.

Section 1.1.1 (change language in penultimate paragraph)

Most of the Parties, some represented by pool committees, entered into the Peace Agreement in June 2000.

Section 1.3 (add following language as the final paragraph of this section)

**It is important to note that Parties’ participation in the OBMP Update stakeholder process should not be interpreted as the Parties’ individual or collective adoption, approval, or recommendation of the 2020 OBMP Update Activities as defined in this Report. As of the date of publication of this Report, the Parties have not agreed to implement any of the projects envisioned herein through an agreement to amend the Peace Agreement and OBMP Implementation Plan.**

Section 1.4 (change last two sentences to the following)

However, **Watermaster staff believes** some of the implementation actions included in the management plan **may be** required to administer the Physical Solution or comply with other Watermaster or regulatory requirements (see Exhibit 17). ~~These required implementation actions may or may not result in the development and implementation of projects.~~

Section 2.1 (change language in second paragraph to the following)

Through the assessment of basin management issues, needs, and wants, **most** stakeholders concluded that the goals defined in the 2000 OBMP are still relevant today. The ~~Parties’~~ intent for each goal of the 2020 OBMP Update, as documented in the Scoping Report, are:

Section 2.2 (change language in last paragraph to the following)

The following sections summarize the seven **identified** 2020 OBMP Update Activities ~~identified by the Parties~~ and **describe** the new implementation actions for inclusion in the 2020 OBMP Update Management Plan (in Section 4) to accomplish the objectives of the activities.

Section 2.2.2 (change language in the first paragraph to the following)

For this and other reasons, **Watermaster believes that** the Parties desire to develop “optimized” Storage and Recovery Programs that avoid potential MPI and provide broad benefits, such as increased water-supply reliability, protected or enhanced Safe Yield, improvements to water quality, and reduced cost of OBMP implementation.

Section 3.2.2.2 (change language in the first paragraph to the following)

As identified in Activity A, **many** Parties have expressed interest in maximizing the recharge of recycled, imported, and storm waters where feasible.

Section 4.0 (change language in last paragraph and add following additional paragraphs)

The complete 2020 OBMP Update management plan, inclusive of all PEs, is summarized in Exhibit 17. Exhibit 17 lists each implementation action and characterizes if they originated from the 2000 OBMP or the 2020 OBMP Update and whether Watermaster **staff believes that** their implementation **may be** required to administer the Physical Solution of the Judgment or comply with other regulatory or Watermaster requirements, including the basis for **this perspective**.

**The Chino Basin Judgment requires for the Physical Solution, inclusive of the OBMP, that “[f]inancial feasibility, economic impact and the cost and optimum utilization of the Basin’s resources and the physical facilities of the parties are objectives and concerns equal in importance to water quantity and quality parameters” (Exhibit “I” Section 1(c)). An analysis has not yet been conducted regarding the potential economic impacts resulting from the implementation actions presented in the 2020 OBMP Update management plan. Watermaster recognizes that any implementation of these proposed activities will be subject to economic considerations, as required by the Judgment.**

Exhibit 17 (change language in table heading to the following)

**Does Watermaster Staff Believe Action May be Required ~~by Watermaster~~ to Administer the Physical Solution or Comply with Other Regulatory or Action Added in Court Requirements?**

# CHINO BASIN WATERMASTER

## II. BUSINESS ITEMS

### B. PROCEDURE AND FEE SCHEDULE FOR REQUESTING INFORMATION AND DOCUMENTS RELATED TO THE CHINO VALLEY MODEL



# CHINO BASIN WATERMASTER

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

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15, 2020  
TO: Advisory Committee  
SUBJECT: Procedure and Fee Schedule for Requesting Information and Documents Related to the Chino Valley Model (Business Item II.B.)

### SUMMARY:

Issue: A procedure needs to be adopted to allow orderly access to information and documents related to the Chino Valley Model.

Recommendation: Offer advice and assistance on the proposed draft procedure.

Financial Impact: There is no financial impact associated with the recommendation.

### Future Consideration

**Advisory Committee – October 15, 2020:** Advice and Assistance  
**Watermaster Board – October 22, 2020:** Approval [Normal Course of Business]

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### ACTIONS:

**Appropriative Pool – August 13, 2020:** Offered advice and assistance  
**Agricultural Pool – August 13, 2020:** No advice or assistance was offered  
**Non-Agricultural Pool – August 14, 2020:** Offered advice and assistance  
**Appropriative Pool – October 8, 2020:** No advice or assistance was offered  
**Agricultural Pool – October 8, 2020:** No advice or assistance was offered  
**Non-Agricultural Pool – October 9, 2020:** No advice or assistance was offered  
**Advisory Committee – October 15, 2020:**  
**Watermaster Board – October 22, 2020:**

*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

At the direction of Watermaster and in support of Watermaster's administration of the Judgment and the Peace Agreements (I & II) and the OBMP Implementation Plan, the Chino Valley Model (CVM) has been developed and updated over time by Watermaster's Engineer, Wildermuth Environmental, Inc. (WEI), for use in performing various functions including but not limited to the achievement of "hydraulic control", basin re-operation, safe yield recalculation, evaluation of transactions such as transfers and recharge applications, evaluation of management zone balance and recharge, evaluation and management of storage, among others. The use of the model is undertaken by Watermaster as an independent evaluation of physical consequences under the ongoing and direct reporting to the Court under its continuing jurisdiction.

The CVM has been funded by Watermaster, principally through assessments levied pursuant to the Judgment and contractually is the property of Watermaster, not WEI. Watermaster is not a public agency and its origin arises as a master provided for by a judgment, subject to the Court's constitutional authority and continuing jurisdiction<sup>i</sup>. As such, access and use of the model is subject to the sole and complete discretion of the Court.

Over time there have been requests for specific analyses to be performed using the CVM, and for information regarding the model structure and the data used to develop the CVM. It is the intention of Watermaster that while control of the model be maintained by Watermaster, open and transparent review of the CVM be provided to the parties to the Judgment under clear and consistent rules and procedures that fairly balance access and cost considerations.

## DISCUSSION

To be responsive to the requests related to the CVM Watermaster developed a draft procedure and fee schedule for access to CVM information and documents. The draft procedure was presented to the Pool Committees in August for advice and assistance and has been revised in response to the comments that were offered.

The procedure (Attachment 1, Exhibit A to Resolution 2020-05) was presented to the Pool Committees once again in October 2020 for any further advice and assistance, and is being presented to the Advisory Committee for advice and to the Watermaster Board for adoption by resolution during the October 2020 meetings. The proposed draft resolution is also attached (Attachment 2.)

## ATTACHMENTS

1. Draft Procedure and Fee Schedule for Requesting Information and Documents Related to the Chino Valley Model
2. Resolution 2020-05 (Draft)

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<sup>i</sup> See *California American Water Company v. City of Seaside* (2010) 183 Cal.App.4<sup>th</sup> 471, 474-475

**CHINO BASIN WATERMASTER  
PROCEDURE AND FEE SCHEDULE FOR REQUESTING INFORMATION AND DOCUMENTS  
RELATED TO THE CHINO VALLEY MODEL**

**I. PURPOSE**

The purpose of this procedure is to delineate the procedure to be used, the guidelines to follow, and the fees to be charged for costs associated with the request of information and documents related to the Chino Valley Model.

**II. BACKGROUND**

Chino Basin Watermaster's ("Watermaster") Engineer has developed the Chino Valley Model ("Model") to evaluate and estimate the Safe Yield of the Chino Basin ("Basin"). The Model is based upon five computer codes used to represent the physical processes in the Basin. The Model's sufficiency was approved by the Court in its July 31, 2020 Orders re Chino Basin Watermaster Motion Regarding 2020 Safe Yield Reset, Amendment of Restated Judgment, Paragraph 6 ("2020 Order"). (See p. 5.)

As the administrator of the Restated Judgment under the Court's continuing jurisdiction, Watermaster performs independent evaluation of physical conditions within the Basin through application of the Model, other than to fulfill its obligations under the direct oversight of the Court and for the assistance of the Parties. Maintaining the integrity of the Model is paramount to Watermaster's duties. Accordingly, in the 2020 Order, the Court held that Watermaster is not required to release the Model to the Parties, and, at the same time, that "Watermaster's assurances regarding transparency and open access are buttressed by the court's oversight pursuant to its continuing jurisdiction over Safe Yield, as well as the stakeholder and technical reviews set forth in the motion and supporting exhibits and declarations." (2020 Order, p. 6.)

While release of the Model is not required, the Judgment, the Court's prior orders, ensure that stakeholder access, review, comment are an integral part of the optimum management of the Basin. (See Restated Judgment, ¶ 38; April 28, 2017 Orders for Watermaster's Motion Regarding 2015 Safe Yield Reset Agreement, Amendment of Restated Judgment, Paragraph 6, pp. 15-17;) as is transparency. As such, Watermaster sets forth the following standardized procedures and guidelines—(["Model Information Guidelines"](#)) to permit interested parties access to certain information and documents pertaining to the Model (["Model Information Guidelines"](#)).

**III. PROCEDURE**

**A. GENERAL**

Watermaster staff will exercise reasonable efforts to respond to written requests for information or documents pertaining to the Model within 10 working days following receipt of the request. Watermaster's response will indicate whether the written request seeks disclosable information or documents in Watermaster's possession as determined by these Model Information Guidelines or requires model runs that are appropriately undertaken by the Watermaster Engineer and, if so, when such information or documents, or the results of such model runs will be made available.

**B. FORMS**

A Party seeking information and documents pertaining to the Model or Model runs shall complete and submit a Request for Information Form – Chino Valley Model to Watermaster staff to request information or documents pertaining to the Model.

#### IV. GUIDELINES

Watermaster staff will consider requests for information and documents pertaining to the Model or Model runs on a case-by-case basis subject to the guidelines set forth in the Chino Basin Watermaster Procedure, Guidelines and Fee Schedule for Release of Information and Documents ([Watermaster Resolution 01-03](#)) and as stated below. To the extent these Model Information Guidelines conflict with the Procedure, Guidelines and Fee Schedule for Release of Information and Documents, these Model Information Guidelines shall govern the submittal of, review and response to a request for information or documents pertaining to the Model.

A. Watermaster will independently maintain and control the CVM and its operation subject to the Court's continuing jurisdiction.

B. The Party shall indicate the general reason for their request for information and the relationship to Watermaster's administration of the Judgment.

C. Information regarding the following will generally be made available: (1) a description of the Model application; (2) Model assumptions; (3) data inputs into the Model; (4) boundary conditions; (5) calibration of the Model; (6) any uncertainty analysis of the Model; and, (7) information produced by the Model (e.g., results of Model runs).

D. A Party may request Watermaster to conduct customized runs of the Model under party-proposed scenarios. However, Watermaster may exercise reasonable discretion and may potentially denying the request when considering: (1) the reasons for the request; (2) the number of times the Party has previously made the same or similar requests; (3) time and expense; and (4) whether the information is for individual needs or general benefit.

#### V. FEE SCHEDULE

A. Copies of requested information will be made available subject to the procedures and guidelines outlined above and upon payment of reasonable fees to cover the costs associated with copying and handling. An additional fee will be charged, as necessary, for actual costs associated with any request for information requiring special research or input.

B. Watermaster shall charge the following reasonable fees for the production of information and documents subject to these Model Information Guidelines:

- |   |                                 |
|---|---------------------------------|
| 1. Photocopies  | \$ 0.50 per page/\$5.00 minimum |
| 2. Facsimiles   | \$ 0.30 per page                |
| 3. Electronic data/text equal to one (1) printed page | \$ 0.15 per page                |
| 4. CD Rom   | \$ 2.00 each                    |

5. Mailing

Applicable first-class postal rate

C. Watermaster shall charge the Requestor for any costs associated with responding to a request for a Model run, or any other information requiring special research or input from Watermaster's staff, engineer or legal counsel. An estimate of such costs shall be disclosed to and agreed upon by the Requestor prior to Watermaster responding to a request for a Model run, or providing any other information requiring special research or input from Watermaster's staff, engineer or legal counsel.

DRAFT



**RESOLUTION 2020-05  
OF THE  
CHINO BASIN WATERMASTER**

**REGARDING**

**PROCEDURE AND FEE SCHEDULE  
FOR  
REQUESTING INFORMATION AND DOCUMENTS  
RELATED TO THE CHINO VALLEY MODEL**

1. **WHEREAS**, the Chino Basin Watermaster (“Watermaster”) was appointed pursuant to the Judgment in Chino Basin Municipal Water District v. City of Chino (San Bernardino Superior Court Case No. RCV RS51010) to administer and enforce the provisions of the Judgment and any subsequent instructions and orders of the Court;
2. **WHEREAS**, the Court has ordered Watermaster to administer provisions of the Peace Agreements relating to the Optimum Basin Management Program (“OBMP”) Implementation Plan, including among others hydraulic control, safe yield recalculation, and evaluation of water transfers;
3. **WHEREAS**, in order to fulfill its obligations under the Judgment and the Court’s subsequent instructions and orders and to support OBMP implementation, Watermaster has developed the Chino Valley Model (CVM);
4. **WHEREAS**, Watermaster uses and intends to use the CVM independently in performance of its functions;
5. **WHEREAS**, it is appropriate for Watermaster to maintain the CVM as its own, while making Watermaster records available for public review, consistent with proper and efficient functioning of the Watermaster office and with protection of sensitive, and privileged information;
6. **WHEREAS**, Watermaster’s assurances regarding transparency and open access are buttressed by the court’s oversight pursuant to its continuing jurisdiction; and
7. **WHEREAS**, it is necessary and proper for Watermaster to adopt standardized procedures for access to the CVM, release of information and documents related thereto, and to establish a fee schedule for the same.

**NOW, THEREFORE, BE IT RESOLVED BY THE CHINO BASIN WATERMASTER** as follows:

1. Resolution 2020-05 and the attached Procedure and Fee Schedule for Requesting Information and Documents Related to the Chino Valley Model dated October 22, 2020 shall become effective upon adoption by the Chino Basin Watermaster Board; and
2. The attached procedure is to be reviewed and updated and presented to the Board for adoption, periodically but not less frequently than every five years.

**ADOPTED** by the Watermaster Board on this 22<sup>nd</sup> day of October 2020.

By: \_\_\_\_\_  
Chairman, Watermaster Board

ATTEST:

---

Board Secretary  
Chino Basin Watermaster

DRAFT

STATE OF CALIFORNIA            )  
  ) ss  
COUNTY OF SAN BERNARDINO    )

I, Bob Kuhn, Secretary of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 2020-05, was adopted at the regular meeting of the Chino Basin Watermaster Board on October 22, 2020 by the following vote:

AYES:            0  
NOES:            0  
ABSENT:         0  
ABSTAIN:        0

CHINO BASIN WATERMASTER

\_\_\_\_\_  
Board Secretary

Date: \_\_\_\_\_

DRAFT

## LIST OF EXHIBITS

**Exhibit A:** Chino Basin Watermaster Procedure and Fee Schedule for Requesting Information and Documents Related to the Chino Valley Model

DRAFT

# CHINO BASIN WATERMASTER

## III. REPORTS/UPDATES

### C. CHIEF FINANCIAL OFFICER

1. AP August 25, 2020 Invoices for \$165,694.75



# CHINO BASIN WATERMASTER

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

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PETER KAVOUNAS, P.E.  
General Manager

## STAFF REPORT

DATE: October 15 2020

TO: Advisory Committee

SUBJECT: AP August 25, 2020 Invoices for \$165,694.75 (Agenda Item III.C.1.)

SUMMARY:

Issue: Status of the AP August 25, 2020 Invoices for \$165,694.75

Recommendation: None

Financial Impact: No impact at this time

Future Consideration

**Advisory Committee – October 15, 2020:** Information only

**Watermaster Board – October 22, 2020:** Provide direction to staff [Normal Course of Business]

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ACTIONS:

**Appropriative Pool – October 8, 2020:** Information only

**Agricultural Pool – October 8, 2020:** Information only

**Non-Agricultural Pool – October 9, 2020:** Information only

**Advisory Committee – October 15, 2020:**

**Watermaster Board – October 22, 2020:**

*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

On August 25, 2020, the Watermaster Board directed staff to issue invoices to the Appropriative Pool members for the \$165,694.75 unreimbursed increase in the Overlying (Agricultural) Pool's Fiscal Year 2019-2020 legal budget, allocated on the basis of the "Ag Pool Reallocation." That day, Watermaster staff sent out invoices for this charge to the members of the Appropriative Pool, with such payments being due on September 25, 2020.

On September 14, 2020, at the request of the Appropriative Pool, Watermaster established an escrow account for the purpose of enabling members of the Appropriative Pool to allow them to deposit funds in an amount equal to their respective allocated invoiced share of cumulative reimbursement amount attributable to the Overlying (Agricultural) Pool's claim arising under §5.4 of the Peace Agreement – and to hold their funds for their benefit. Functioning as an escrow, Watermaster has no access to the funds and has no discretion to access or distribute the funds other than as instructed by the depositing party.

As Watermaster has no access to the funds held in escrow, the deposit is not payment – or an excuse from delinquency. There is no agreement among Watermaster and the Appropriative Pool Parties as to the effect of the placement of funds into the escrow account on the provisions of Paragraph 55(c) of the Restated Judgment regarding delinquency of payments, the accrual of interest, and Watermaster's ability to institute a show-cause proceeding to collect payments and interest. As a condition of the establishment of the escrow account, Watermaster made it clear that its staff and counsel made no representation of any kind regarding the legal implications, if any, regarding the placement of funds into the escrow account.

As of the date of this staff letter, fourteen (14) Appropriative Pool members have made payments into the escrow account in the amount of their invoices issued on September 25, 2020, and two (2) members have neither paid Watermaster nor made payments into the escrow account.

On September 18, 2020, nine (9) members of the Appropriative Pool have filed their Motion of Appropriative Pool Member Agencies Re: Agricultural Pool Legal and Other Expenses with the Watermaster Court ("Motion") seeking a determination as to their obligations to pay the underlying invoices. The Motion is presently on calendar for an October 23, 2020 hearing – the day after the Board's October 22, 2020 regular meeting.

Watermaster has issued notices of delinquency to the two (2) Appropriative Pool parties who have neither paid Watermaster nor made payments into the escrow account.

## DISCUSSION

As to those parties that have paid into the escrow account, the account is a mechanism through which the members of the Appropriative Pool may separately hold their own money in an interest-bearing account. While held in escrow, Watermaster cannot apply that money to reimburse the Overlying (Agricultural) Pool's account for which it was invoiced. For this reason, Watermaster staff views those parties that have paid into the escrow account as delinquent in their payments of the August 25, 2020 invoices. However, depending upon the outcome of the Court's review of the pending Motion, the terms of the escrow instructions established by the Appropriative Pool may result in full-payment along with associated interest on the funds deposited into escrow, a determination that the invoices should not be paid thereby invalidating the surcharge, or another order. It seems unnecessary and impractical to cause a second payment of a like amount. Consequently, Watermaster will not pursue a show-cause proceeding and a delinquency interest pending the outcome of the trial Court's review of the pending nine (9) party motion.

As to the two Appropriative Pool parties who have neither paid Watermaster nor made payments into the escrow account, Watermaster staff will request direction from the Board at its October 22, 2020 meeting to institute a show-cause proceeding to collect payments, interest, and attorney's fees thereunder.

# 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)



### **III. REPORTS/UPDATES**

#### **E. INLAND EMPIRE UTILITIES AGENCY**

Click on this [link](#) for the IEUA Interagency Water Managers' Report

# CHINO BASIN WATERMASTER

## IV. INFORMATION

### 1. RECHARGE INVESTIGATIONS AND PROJECTS COMMITTEE (RIPCOM)

#### **IV. INFORMATION**

##### **1. RECHARGE INVESTIGATIONS AND PROJECTS COMMITTEE (RIPCOM)**

Reference Material from July 16, 2020 RIPCom Meeting

- Recharge Investigations and Projects Committee Meeting  
Agenda
- RMPU Status Updates
- RIPCom Budget Tracker

# Recharge Investigations and Projects Committee Meeting

## Agenda

**When:** Thursday, July 16, 2020 @ 9:30 a.m.

**Where:** Online only, please join the meeting from your computer, tablet or smartphone: <https://global.gotomeeting.com/join/538412261>

You can also dial in using your phone: [\(571\) 317-3122](tel:5713173122)

Access Code: 538-412-261

### Topics:

1. Introductions
2. New/Old Projects consideration
  - a) Open forum for potential new projects
3. IEUA/CBWM joint projects
  - a) Status updates
  - b) Budget updates
4. HCP status update

Next Recharge Investigations and Projects Committee (RIPCom) Meeting Date:

Thursday, October 15, 2020 @ 9:30 a.m.

# Non-RMPU Ongoing Projects



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**GWR AND RW SCADA UPGRADES  
PROJECT NO. EN14047  
STATUS UPDATE: FINAL**

During Inland Empire Utilities Agency’s asset review of the existing Supervisory Control & Data Acquisition (SCADA) system, a thorough and comprehensive evaluation of the recycled water (RW) and groundwater recharge (GWR) control system was conducted. A Master Plan was developed; and it recommended critical upgrades to the RW and GWR SCADA systems. The purpose of this project is to provide control system improvements to sustain and support the continued growth of the RW and GWR programs. Under this project, five recharge basins which operate a rubber dam system will be replaced with newer, reliable and fully supported programmable logic controllers (PLCs). The current PLCs are outdated and lack critical product and technical support. The upgrade will extend the site’s reliability by 10 years and provide the initial development model when transitioning other sites to newer controllers.

**Schedule:**

	<u>Project Budget</u>	<u>Actual Cost to Date</u>			
	\$892,000	\$774,979			
<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Project Development	11/11/11	02/24/14	Completed	\$422	\$422
Design	02/26/14	01/15/16	Completed	\$186,512	\$186,512
Permits	09/12/14	01/15/16	Completed	\$42	\$42
Bid and Award	01/18/16	04/20/16	Completed	\$3,461	\$3,461
Construction**	04/21/16	04/30/18	Completed	\$570,000	\$584,542
				<u>\$760,437</u>	<u>\$774,979</u>

\*Projected cost was adjusted to align to the total with the approved budget. However final expense may close below \$892,000.

**Grant/Loan Update:**

Awarded grant funds and a low interest from the Santa Ana Project Water Authority and Clean Water State Revolving Fund through Prop. 1.

**Cost Sharing Document:** Task Order No. 4 of the Master Agreement of 2014

**Project Update:**

Final.

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# RMPU PROJECTS



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**SAN SEVAINE IMPROVEMENTS PROJECT  
PROJECT NO. EN13001  
STATUS UPDATE: JULY 1, 2020**

As part of the 2013 Amendment to the 2010 Recharge Master Plan Update (RMPU), this Project will evaluate, design, and construct basin improvements needed to maximize infiltration and recharge capture at the San Sevaire Basins. The final recommendation from the preliminary development report proposes to implement: (1) a new stormwater / recycled water pump station in Basin 5, (2) directly tying it into an existing RW pipeline, (3) place new pipelines and headwalls into Basins 1, 2, and 3, and (4) install monitoring wells and lysimeters. The proposed improvements will add 642 acre-feet per year of stormwater and 4,100 acre-feet per year of recycled water for groundwater recharge.

**Schedule:**

<u>Project Budget</u>	<u>Actual Cost to Date</u>
\$6,460,000	\$6,222,850

<u>Phase</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>	<u>Projected Cost</u>	<u>Actual Cost</u>
Pre-design	10/01/12	05/14/15	Completed	\$160,000	\$159,898
Environmental Impact	06/26/13	01/20/16	Completed	\$30,000	\$24,283
Design	05/15/15	12/12/16	Completed	\$500,000	\$555,899
Permits	05/15/13	01/31/18	Completed	\$25,000	\$25,000
Bid and Award	12/13/16	09/20/17	Completed	\$5,000	\$5,000
Construction	09/21/17	01/31/19	Completed	\$5,740,000	\$5,452,770
Minor Task/Warranty	02/02/19	08/31/20	In-Progress		
				<hr/>	
				\$6,460,000	\$6,222,850

**Grant/Loan Update:**

Awarded a \$750,000 state grant from the Department of Water Resources through the Santa Ana Watershed Project Authority as part of Proposition 84 and a \$375,000 federal grant from the US Bureau of Reclamation. Awarded Clean Water State Revolving Fund (SRF) for the construction of the project. This awarded financing includes a \$2.5 million forgiveness grant against the principal.

**Cost Sharing Document:**

- Task Order No. 8 of the Master Agreement of 2014 (August 2014)
- 1<sup>st</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (April 2015)
- 2<sup>nd</sup> Amendment Task Order No. 8 of the Master Agreement of 2014 (May 2017)

**Project Update:**

- On January 31, 2019, all major construction activities were completed. The following construction contracts are closed:
  - Gwinco Construction (Basin Improvement Construction)
  - Yellow Jacket Drilling (Monitoring Well Construction)
  - WA Rasic (Edison Conduit Construction)
- Currently addressing a warranty issue with pumps. Due to COVID 19, there has been limited resources and extend time to evaluate the pumps. The pumps were removed and sent for evaluation to determine failure cause. Further updates to follow.

**Construction Activities Photos:**



**Completed Stormwater Inlet (Pump Station) – Adjacent to Existing Outlet Pipe (right)**



**Discovered Alluvial Deposits near the New Stormwater Inlet Structure**





**Recent Access into Pump Station Wet Well for Cleaning**



**Removed Alluvial Deposits within the Pump Station Wet Well (less than 1 cubic yard)**



**POST 2014 STORMWATER RECHARGE PROGRAM  
PROJECT NOS. RW15003.00/.01/.02/.03/.04/.05/.06 & RW15004.00  
STATUS UPDATE: JULY 1, 2020**

“Post 2014 Stormwater Recharge Program” recommended for final design, bid and construction:

PID	Basin Projects	Post 2014 Stormwater Recharge Program <sup>(2)</sup>	Initial Yield		Updated Yield <sup>(1)</sup>	
			SW	RW	SW	RW
			acre-feet per year			
12	Lower Day Basin	Increase stormwater diversion and basin storage	789	-	993	-
11	Victoria Basin	Improve the infiltration rate and increase storage by removing settled deposits	43	120	75	120
2	Montclair Basins	Increase storage and recharge capacity by directing more channel flow	248	-	96	-
18a	CSI Basin <sup>(3)</sup>	New storage and recharge facility by deepening basin	81	-	-	-
23a	Wineville, Jurupa, RP3 & Force Main	Improve storage and recharge capacity with pumps/conveyance systems between basins and provide new diversion structures	3,166	2,905	2,921	2,905
<b>Total</b>			<b>4,327</b>	<b>3,025</b>	<b>4,085</b>	<b>3,025</b>

- (1) Updated to reflect new values as calculated after the completion of the PDR.
- (2) San Sevaine Basin Improvement project is a part of the “Post 2014 Stormwater Recharge Program” but it is not listed here for it has its own status update sheet.
- (3) 18a (CSI) removed from the list of ongoing RMPU projects. Yield value of 100 AFY is removed.

**Project Budget:**

Project Budget  
\$23,016,080

Actual Cost to Date  
\$4,963,131

	RMPU Projects	Total Project Cost	Actual Cost (to date)	
Ongoing Projects	Lower Day Basin (PID 12)	\$4,008,000	\$782,553	
	Victoria Basin (PID 11)	\$176,072	\$176,072	
	Montclair Basins (PID 2)	\$1,788,100	\$262,136	
	RP-3 Basin	(23a)	\$1,486,700	\$1,276,863
	Wineville Basin		\$14,996,200	\$1,904,499
	Jurupa Basin			
	Wineville/Jurupa Force Main			
Deferred Projects	East Declerz (Non RMPU Project)	\$114,000	\$114,000	
	Declerz Basin (PID 27)	\$105,000	\$105,000	
	Turner Basin (PID 14)	\$42,000	\$42,000	
	Ely Basin (PID 15a)	\$236,000	\$236,000	
	CSI Basin (PID 18a)	\$64,008	\$64,008	
<b>Total</b>		<b>\$23,016,080</b>	<b>\$4,963,131</b>	

**Cost Sharing Documents:**

<b>Lower Day Basin – PID 12 (Task Order No. 2)</b>	
Watermaster’s Share	\$2,883,000
IEUA’s Share	\$0
Grant Funding	\$1,125,000
<b>Sub-Total</b>	<b>\$4,008,000</b>
<b>Victoria Basin – PID 11 (Task Order No. 10)<sup>(4)</sup></b>	
Watermaster’s Share	\$88,036
IEUA’s Share	\$88,036
<b>Sub-Total</b>	<b>\$176,072</b>
<b>Montclair Basin – PID 2 (Task Order No. 11)</b>	
Watermaster’s Share	\$1,788,100
IEUA’s Share	\$0
<b>Sub-Total</b>	<b>\$1,788,100</b>
<b>Wineville/Jurupa/RP3/Force Main – PID 23a (Task Order No. 9)<sup>(5)</sup></b>	
Watermaster’s Share	\$7,554,135
IEUA’s Share	\$387,315
SWRCB Grant	\$8,241,450
USBR Grant	\$300,000
<b>Sub-Total</b>	<b>\$16,482,900</b>
<b>East Declez/Declez – PID 27 /Turner – PID 27/Ely PID – 15a (Task Order No.1)</b>	
Watermaster’s Share	\$497,000
IEUA’s Share	\$0
<b>Sub-Total</b>	<b>\$497,000</b>
<b>CSI Basin (Task Order PENDING)<sup>(6)</sup></b>	
Watermaster’s Share	\$64,008
IEUA’s Share	\$0
<b>Sub-Total</b>	<b>\$64,008</b>
<b>Total</b>	<b>23,016,080</b>

(4) Amending TO 10 to reflect the total project cost from the projected cost of \$168,800 to the final cost of \$176,072.

(5) Includes RP-3, Wineville, Jurupa, and Wineville-Jurupa Force Main’s total projected costs

(6) Drafting a Task Order to end the scope and finalize the final cost as \$64,008

**Grant/Loan Update:**

<b>RMPU Projects</b>		<b>Total Project Cost</b>	<b>Funding Program</b>	<b>Grant Amount</b>
Lower Day Basin (PID 12)		\$4,008,000	Grant Prop. 84 DWR/SAWPA	\$750,000
			USBR	\$375,000
Victoria Basin (PID 11)		\$168,800	-none-	
Montclair Basins (PID 2)		\$1,788,100	SRF Loan	
RP-3 Basin	(23a)	\$1,486,700	SWRCB – Stormwater	\$743,350
			USBR	\$300,000
Wineville/Jurupa /Force Main		\$14,996,200	SWRCB – Stormwater	\$7,498,100
			2018 Water Smart Drought	\$750,000
<b>Total</b>		<b>\$22,447,800</b>		<b>\$10,416,450</b>



## Project Update:

- 1) The following are updates to each of the on-going RMPU projects:
  - a) **Victoria Basin** – Project completed.
  - b) **Wineville/Jurupa Storm Water Distribution Pipeline** – Continuing to address the delays in receiving final permits with US Army Corps of Engineers and Santa Ana Regional Water Quality Control Board. California Department of Fish and Wildlife is on hand pending final signed documents. Design is substantially complete. Waiting on mentioned permits. This will further delay the project construction bidding. Currently mitigation efforts required to offset the project’s impact within the basin is estimated \$60,000.
  - c) **Montclair Basin** – Continuing to address the extended wait for a permit with US Army Corps. The Corps recently requested and received an additional permit application for the project to cover the Section 404 requirements. This additional permitting document will further delay the project construction bidding.
  - d) **Lower Day Basin** – Construction in progress. Currently, reviewing and approving submittals. Field work is scheduled to begin early mid-July.
  - e) **RP-3 Basin Improvement** –
    - i) Demo work completed.
    - ii) Excavation completed.
    - iii) The remaining Basin Improvement at RP-3 will be going out to bid.

**Schedules:**

**Victoria Basin (PID 11): No Schedule (Project Completed)**

**Wineville/Jurupa/Force main (PID 23a) & Montclair Basin (PID 2):**

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	08/13/20	In Progress
Design	12/18/14	02/28/20	Completed
Bid and Award	8/14/20	11/25/20	Not Started
Construction	11/25/20	03/31/22	Not Started

**Lower Day (PID 12):**

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	07/19/19	Completed
Design	12/18/14	07/19/19	Completed
Bid and Award	07/19/19	12/11/19	Completed
Construction	12/11/19	12/22/20	In Progress

**RP-3 Basin (PID 23a):**

<u>Phases</u>	<u>Start</u>	<u>Finish</u>	<u>Status</u>
Project Development	07/01/14	12/17/14	Completed
Preliminary Design	12/18/14	06/21/17	Completed
Environmental	12/18/14	12/31/17	Completed
Permits	06/22/17	01/09/18	Completed
Design	12/18/14	12/14/17	Completed
Bid and Award	01/10/18	06/20/18	Completed
Construction	06/21/18	03/31/21	In Progress



**Wineville – Proposed Location of Pump Station**



**Wineville – Proposed Location of Rubber Dam**





**Near Wineville - Path of New 30-Inch Pipeline**



**Wineville – Existing Basin Outlet**





**Near Jurupa Path of New 30-Inch Pipeline**



**Channel – Proposed Location of Diversion for Jurupa**

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Recharge Investigation and Projects Committee, PAGE 1 OF 3

A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14

Project Name (Project ID) (Cost Sharing Task Order)	IEUA Project No.	Project Cost To Date	Approved Budget	COST SHARE		BUDGET ALLOCATION			IEUA PROJECT COSTS		CBWM PROJECT COSTS		
				IEUA	CBWM	Grant Funding	IEUA	CBWM	Share on Actual Cost To Date	Remaining Balance	Share on Actual Cost To Date	Invoices Paid To Date	Remaining Balance
<b>Pre-RMPU Ongoing Projects</b>													
GWR SCADA Upgrades (7690.61) (Task No. 4) <sup>1</sup>	EN14047.00	\$ 774,979	\$ 892,000	50%	50%	\$ 139,650	\$ 376,175	\$ 376,175	\$ 326,825	\$ 49,350	\$ 326,825	\$ 376,175	\$ 0
COMMUNICATION Upgrades (7690.62) (Task No. 3)	EN12019.00	\$ 1,227,096	\$ 1,227,096	50%	50%	\$ 192,850	\$ 517,123	\$ 517,123	\$ 517,123	\$ -	\$ 517,123	\$ 526,075	\$ (8,952)
Upper Santa Ana River HCP (7690.70) (Task No. 7)	RW15002.00	\$ 149,000	\$ 160,000	50%	50%	\$ -	\$ 80,000	\$ 80,000	\$ 74,500	\$ 5,500	\$ 74,500.00	\$ 59,937	\$ 20,063
<b>SUBTOTAL PRE-RMPU PROJECTS</b>		<b>\$ 2,151,075</b>	<b>\$ 2,279,096</b>	<b>---</b>	<b>---</b>	<b>\$ 332,500</b>	<b>\$ 973,298</b>	<b>\$ 973,298</b>	<b>\$ 918,448</b>	<b>\$ 54,850</b>	<b>\$ 918,448</b>	<b>\$ 962,187</b>	<b>\$ 11,111</b>
<b>RMPU Projects</b>													
San Sevaine Improvements PID7 (7690.40) (Task No. 8)	EN13001.00	\$ 6,222,850	\$ 6,460,000	50%	50%	\$ 3,625,000	\$ 1,417,500	\$ 1,417,500	\$ 1,365,463	\$ 52,037	\$ 1,365,463	\$ 368,410	\$ 1,049,090
Lower Day Basin Improvement PID12 (7690.8) (Task No. 2) *	RW15004.00	\$ 782,553	\$ 4,008,000	0%	100%	\$ 1,125,000	\$ -	\$ 2,883,000	\$ -	\$ -	\$ 782,553	\$ 488,252	\$ 2,394,748
East Decluz (7690.16) (1st Amendment - Task No. 1) *	RW15003.01	\$ 114,000	\$ 114,000	0%	100%	\$ -	\$ -	\$ 114,000	\$ -	\$ -	\$ 114,000	\$ 112,829	\$ 1,171
Decluz Basin PID 27 (7690.21) (Task No. 1) *	RW15003.00	\$ 105,000	\$ 105,000	0%	100%	\$ -	\$ -	\$ 105,000	\$ -	\$ -	\$ 105,000	\$ 105,000	\$ -
Turner Basins PID14 (7690.21) (Task No. 1) *	RW15003.00	\$ 42,000	\$ 42,000	0%	100%	\$ -	\$ -	\$ 42,000	\$ -	\$ -	\$ 42,000	\$ 42,000	\$ -
Ely Basin PID15a (7690.21) (Task No. 1) *	RW15003.00	\$ 236,000	\$ 236,000	0%	100%	\$ -	\$ -	\$ 236,000	\$ -	\$ -	\$ 236,000	\$ 236,000	\$ -
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) *	RW15003.02	\$ 176,072	\$ 176,072	50%	50%	\$ -	\$ 88,036.000	\$ 88,036	\$ 88,036.000	\$ -	\$ 88,036	\$ 88,036	\$ -
Montclair Basin Improvements PID2 (7690.26) (Task No.11) *	RW15003.03	\$ 262,136	\$ 1,788,100	0%	100%	\$ -	\$ -	\$ 1,788,100	\$ -	\$ -	\$ 262,136	\$ 226,289	\$ 1,561,811
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) *	RW15003.04	\$ 64,008	\$ 64,008	0%	100%	\$ -	\$ -	\$ 64,008	\$ -	\$ -	\$ 64,008	\$ 64,008	\$ -
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) *	RW15003.05	\$ 1,276,863	\$ 1,486,700	50%	50%	\$ 712,070	\$ 387,315	\$ 387,315	\$ 282,397	\$ 104,919	\$ 282,397	\$ 94,073	\$ 293,242
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06		\$ 3,588,000	0%	100%	\$ 1,895,530	\$ -	\$ 1,692,470	\$ -	\$ -	\$ 455,672	\$ 454,071	\$ 1,238,399
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) *	RW15003.06	\$ 1,904,499	\$ 1,424,000	0%	100%	\$ 741,730	\$ -	\$ 682,270	\$ -	\$ -	\$ 180,846	\$ 180,211	\$ 502,059
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) *	RW15003.06		\$ 9,984,200	0%	100%	\$ 5,942,120	\$ -	\$ 4,042,080	\$ -	\$ -	\$ 1,267,981	\$ 1,263,527	\$ 2,778,553
Post 2014 Storm Water Recharge Program *		\$ 4,963,131	\$ 23,016,080			\$ 10,416,450	\$ 475,351	\$ 12,124,279	\$ 370,433	\$ 104,919	\$ 3,880,628	\$ 3,354,296	\$ 8,769,983
<b>SUBTOTAL RMPU PROJECTS</b>	<b>---</b>	<b>\$ 11,185,981</b>	<b>\$ 29,476,080</b>	<b>---</b>	<b>---</b>	<b>\$ 14,041,450</b>	<b>\$ 1,892,851</b>	<b>\$ 13,541,779</b>	<b>\$ 1,735,895</b>	<b>\$ 156,956</b>	<b>\$ 5,246,091</b>	<b>\$ 3,722,706</b>	<b>\$ 9,819,073</b>
<b>GRAND TOTALS</b>	<b>---</b>	<b>\$ 13,337,056</b>	<b>\$ 31,755,176</b>	<b>---</b>	<b>---</b>	<b>\$ 14,373,950</b>	<b>\$ 2,866,149</b>	<b>\$ 14,515,077</b>	<b>\$ 2,654,343</b>	<b>\$ 211,806</b>	<b>\$ 6,164,539</b>	<b>\$ 4,684,892</b>	<b>\$ 9,830,184</b>

NOTES:

<sup>1</sup> Watermaster Board approved an additional amount of \$45,700 (50% of the anticipated additional costs of \$91,400) on November 25, 2014 for the Programmable Logic Controller (PLC) replacements at the five Rubber Dam/Basin systems.

Updated: 7/16/2020  
Version: 2020-07

Recharge Investigation and Projects Committee, PAGE 2 OF 3

Project Name	CBWM Fiscal Year 2019/20										CBWM Future Years				
	CURRENT YEAR CBWM BUDGET					CURRENT YEAR CBWM ACTUALS					CBWM FUTURE BUDGET NEEDS				
	Budget Carry-Over	Approved Budget	Approved Budget (Not Assessed or Collected)	Budget Amendments/ Transfers	Total Fiscal Year Budget	Actual to Date (Including Paid & Outstanding Invoices)	Remaining Balance Available	Completed Projects With Available Funds To Be Distributed	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projected CarryOver Funds FY 2019/20	Fiscal Year 2020/21	Fiscal Year 2021/22	Fiscal Year 2022/23	Fiscal Year 2023/24
<b>Pre RMPU Ongoing Projects</b>															
GWR SCADA Upgrades (7690.61) (Task No. 4)	\$ 45,700	\$ -	\$ -	\$ -	\$ 45,700	\$ -	\$ 45,700	\$ 45,700	\$ -	No	\$ (45,700)	\$ -	\$ -	\$ -	\$ -
COMMUNICATION Upgrades (7690.62) (Task No. 3)	\$ (8,952)	\$ -	\$ -	\$ -	\$ (8,952)	\$ -	\$ (8,952)	\$ -	\$ (8,952)	No	\$ -	\$ -	\$ -	\$ -	\$ -
Upper Santa Ana River HCP (7690.7) (Task No. 7)	\$ 20,063	\$ -	\$ -	\$ -	\$ 20,063	\$ -	\$ 20,063	\$ -	\$ 20,063	No	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SUBTOTAL PRE-RMPU PROJECTS</b>	<b>\$ 56,811</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 56,811</b>	<b>\$ -</b>	<b>\$ 56,811</b>	<b>\$ 45,700</b>	<b>\$ 11,111</b>	<b>---</b>	<b>\$ (45,700)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>RMPU Projects</b>															
San Seavine Improvements (7690.4) (Task No. 8) <sup>1</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,049,090	No	\$ -	\$ 1,049,090	\$ -	\$ -	\$ -
Lower Day Basin Improvement Project (7690.8) (Task No. 2) <sup>* 2</sup>	\$ 238,647	\$ -	\$ -	\$ -	\$ 238,647	\$ -	\$ 238,647	\$ -	\$ 2,394,748	No	\$ -	\$ 1,275,331	\$ 880,770	\$ -	\$ -
East Declaz Basin (7690.16) (1st Amendment - Task No. 1) <sup>*</sup>	\$ 1,171	\$ -	\$ -	\$ -	\$ 1,171	\$ -	\$ 1,171	\$ -	\$ 1,171	No	\$ -	\$ -	\$ -	2020-07	\$ -
Declaz Basin PID 27 (7690.21) (Task No. 1) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Turner Basins PID14 (7690.21) (Task No. 1) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Ely Basin PID15a (7690.21) (Task No. 1) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Victoria Basin Improvements PID11 (7690.25) (Task No. 10) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
Montclair Basin Improvements PID2 (7690.26) (Task No.11) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,561,811	No	\$ -	\$ 954,504	\$ 554,311	\$ 52,996	\$ -
CSI Basin Improvements PID 18a (7690.27) (Task No. 12) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
RP3 Basin Improvements PID23a (7690.35) (Task No. 9) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 293,242	No	\$ -	\$ 293,242	\$ -	\$ -	\$ -
Wineville Basin Improvements PID23a (7690.36) (Task No. 9) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,238,399	No	\$ -	\$ 332,410	\$ 905,989	\$ -	\$ -
Jurupa Basin Improvements PID23a (7690.36) (Task No. 9) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 502,059	No	\$ -	\$ 150,000	\$ 352,059	\$ -	\$ -
Wineville/Jurupa Force Main PID 23a (7690.36) (Task No. 9) <sup>*</sup>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,778,553	No	\$ -	\$ 1,009,753	\$ 1,524,810	\$ 243,990	\$ -
2013 RMPU Amendment Yield Enhancement Projects (7690.15) (Task No. 1) <sup>* 3</sup>	\$ 56,795	\$ -	\$ -	\$ -	\$ 56,795	\$ -	\$ 56,795	\$ -	\$ -	No	\$ -	\$ (56,795)	\$ -	\$ -	\$ -
Post 2014 Storm Water Recharge Program <sup>*</sup>	\$ 296,613	\$ -	\$ -	\$ -	\$ 296,613	\$ -	\$ 296,613	\$ -	\$ 8,769,983	No	\$ -	\$ 3,958,445	\$ 4,217,939	\$ 296,986	\$ -
<b>SUBTOTAL RMPU PROJECTS</b>	<b>\$ 296,613</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 296,613</b>	<b>\$ -</b>	<b>\$ 296,613</b>	<b>\$ -</b>	<b>\$ 9,819,073</b>	<b>---</b>	<b>\$ -</b>	<b>\$ 5,007,535</b>	<b>\$ 4,217,939</b>	<b>\$ 296,986</b>	<b>\$ -</b>
<b>GRAND TOTALS</b>	<b>\$ 353,424</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 353,424</b>	<b>\$ -</b>	<b>\$ 353,424</b>	<b>\$ 45,700</b>	<b>\$ 9,830,184</b>	<b>---</b>	<b>\$ (45,700)</b>	<b>\$ 5,007,535</b>	<b>\$ 4,217,939</b>	<b>\$ 296,986</b>	<b>\$ -</b>

**NOTES:**  
<sup>1</sup> Funding collected in prior years for San Seavine Improvements of \$2,299,090.18 has been reallocated to Page 3 per RIPCom recommendation during the July 2018 meeting. Budget Transfer Form T-18-07-01 for \$2,377,205.84 approved during September 2018 meetings. Columns B12-B16 \$ 9,476,760 Updated: 7/16/2020  
<sup>2</sup> Lower Day funding of \$414,540.85 from Budget Transfer T-18-07-01 of \$78,115.66 and \$336,425.19 from Page 3. Budget Transfer Form T-18-07-01 approved during September 2018 meetings. Column B8 \$ 353,424 Version: 2020-07  
<sup>3</sup> 2013 RMPU Amendment Yield Enhancement Projects funding of \$690,258.97 from Budget Transfer T-18-07-01 from Page 3. Budget Transfer Form T-18-07-01 approved during September 2018 meetings. Column B10 \$ 9,830,184



Recharge Investigation and Projects Committee, (COMPLETED PROJECTS) PAGE 3 of 3

Project Name	CBWM Fiscal Year 2019/20									CBWM Future Years				
	CURRENT YEAR CBWM BUDGET				CURRENT YEAR CBWM ACTUALS					CBWM FUTURE BUDGET NEEDS				
	Budget Carry-Over	Approved Budget	Budget Amendments/ Transfers	Total Fiscal Year Budget	Actual to Date (Including Paid & Outstanding Invoices)	Remaining Balance Available	Completed Projects With Available Funds To Be Distributed <sup>1</sup>	CBWM Remaining Projected Costs	Budget Amendment Required? (Yes/No)	Projected CarryOver Funds FY 2019/20	Fiscal Year 2020/21	Fiscal Year 2021/22	Fiscal Year 2022/23	Fiscal Year 2023/24
Pre RMPU Ongoing Projects	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SUBTOTAL PRE-RMPU PROJECTS</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	---	\$ -	\$ -	\$ -	\$ -	\$ -
RMPU Projects														
Funds on Hold for Projects (7690.9) <sup>1</sup>	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	No	\$ -	\$ -	\$ -	\$ -	\$ -
<b>SUBTOTAL RMPU PROJECTS</b>	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	---	\$ -	\$ -	\$ -	\$ -	\$ -
<b>GRAND TOTALS</b>	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	\$ -	\$ 1,272,406	\$ -	---	\$ -	\$ -	\$ -	\$ -	\$ -

NOTES:

<sup>1</sup> \$1,272,406.02 of the Funds on Hold for Projects could be (1) allocated to other projects; (2) kept in reserve; (3) used to fund debt service; or (4) refunded to the Appropriators on the next Assessment.

Updated: 7/16/2020  
Version: 2020-07

# CHINO BASIN WATERMASTER

## IV. INFORMATION 2. PLUMES STATUS REPORT

#### **IV. INFORMATION**

##### **2. PLUMES STATUS REPORT**

Plumes Semi-Annual Status Reports

- South Archibald Plume
- Chino Airport Plume



## SEMI-ANNUAL PLUME STATUS REPORT

### SOUTH ARCHIBALD PLUME

October 2020

#### Contaminants

The primary contaminant is trichloroethene (TCE). The 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 (January 2015 to December 2019) 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 *2018 State of the Basin Report*.<sup>1</sup> This extent is based on the five-year maximum TCE concentration measured over the period of July 2013 to June 2018. The TCE plume is about 22,000 feet long, extending southward from State Route 60 to approximately Bellegrave Avenue, and is about 14,000 feet wide extending from Grove Avenue to Turner Avenue.

#### Regulatory Orders

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

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<sup>1</sup> Wildermuth Environmental, Inc. (2019). *Optimum Basin Management Program – 2018 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2019.

## 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 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.<sup>2</sup> 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).<sup>3</sup> The Feasibility Study established cleanup objectives for domestic

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<sup>2</sup> 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.

<sup>3</sup> 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.



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<sup>4</sup> to present the preferred plume remediation and domestic water supply alternatives. 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<sup>5</sup> and RAP<sup>6</sup> and responses to comments were completed to address input from the public, ABGL, and other parties.

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.

### 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<sup>7</sup> for implementation of a project designed to remediate the South Archibald plume. The proposed project includes 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 where TCE and other VOCs would be removed via air stripping. 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. The construction of well II-12 is in progress and is expected to be complete in November 2020. The construction of the dedicated raw water pipeline to convey groundwater from the three new wells and well I-11 to the Chino-II Desalter facility is underway and is estimated to complete by February 2021. The overall project is anticipated to be complete by March 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

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<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> 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.

<sup>7</sup> Agreement dated June 22, 2015.



residences to the City of Ontario potable water system. Pursuant to the Stipulated CAO, the Cities of Ontario and Upland have assumed 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*<sup>8</sup> to the Regional Board, outlining the approach to provide alternative water supplies to affected residences currently receiving bottled water. The Regional Board approved<sup>9</sup> the work plan on March 3, 2017. 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 include: installation of a tank system; connection to an existing City of Ontario water main; connection to a future City of Ontario water main; or 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.

### Monitoring and Reporting

Pursuant to the Stipulated CAO, the Cities of Ontario and Upland are responsible for coordinating and conducting ongoing monitoring of the TCE concentrations in the plume and submitting an annual monitoring report to the Regional Board by December 31 of each year. Pursuant to the Stipulated CAO, a *Private Water Supply Well Sampling Work Plan*<sup>10</sup> was submitted to the Regional Board on February 6, 2017 and approved on February 14, 2017.<sup>11</sup> The purpose of sampling is to track the plume extent and affected residences, and to ensure that an alternative water supply is provided to residences using water with TCE concentrations greater than 4 µg/l.

Pursuant to the February 2017 work plan, the Cities of Ontario and Upland conducted four rounds of samplings in 2017, 2018, and 2019, and the results were reported in annual groundwater monitoring reports submitted to the Regional Board. The annual reports are available on the GeoTracker online portal.<sup>12</sup>

In addition to the monitoring performed by 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 at the desalter wells,

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<sup>8</sup> Dudek. (2017). *Domestic Water Supply Work Plan South Archibald Plume, Ontario, California*. Prepared for the City of Ontario, City of Upland. February 2017.

<sup>9</sup> Regional Board. (2017). *Letter from Kurt Berchtold to the City of Ontario. Domestic Water Supply Workplan – South Archibald Trichloroethylene Plume, Ontario, California*. March 3, 2017.

<sup>10</sup> EEC Environmental. (2017). *Workplan – Private Water Supply Well Sampling. Ontario California*. Prepared for the City of Ontario. February 6, 2017.

<sup>11</sup> Regional Board. (2017). *Letter from Kurt Berchtold to the City of Ontario. Private Water Supply Sampling Work Plan – Selected Private Groundwater Wells and Taps, Ontario, California*. February 14, 2017.

<sup>12</sup> [https://geotracker.waterboards.ca.gov/profile\\_report?global\\_id=T10000004658](https://geotracker.waterboards.ca.gov/profile_report?global_id=T10000004658)

to delineate the South Archibald TCE plume as part of the biennial Chino Basin State of the Basin Report.

### Recent Activity

*Domestic Water Supply.* In May 2020, the City of Ontario submitted the *2020 Domestic Water Supply Work Plan* for the sampling of private wells and taps at approximately 61 locations within the plume. The Regional Board approved the work plan on August 13, 2020.<sup>13</sup> The annual monitoring event is scheduled for Fall 2020.

*Plume Remediation.* The CDA submitted the design report for well II-12 on June 19, 2020 and was approved by the California State Water Resources Control Board Division of Drinking Water (DDW) on June 23, 2020<sup>14</sup> and by the Regional Board on June 29, 2020.<sup>15</sup> Drilling for well II-12 is currently underway, and construction is estimated to complete in November 2020. Well II-12 will be operational by March 2021. On April 14, 2020, the Regional Board approved the design reports for the raw water pipeline and decarbonator for Chino-II Desalter expansion for the cleanup of the South Archibald Plume. The estimated completion date for the construction of the decarbonator for Chino-II Desalter and the raw water pipeline are January 2021<sup>16</sup> and February 2021<sup>17</sup>, respectively.

The CDA is working with the City of Ontario and IEUA on designing a Monitoring and Reporting Plan (M&RP) pursuant to Section 2.2 of the *Proposition 1 Grant Agreement No. D1712507* for funding the expansion of the CDA facilities to cleanup groundwater in the South Archibald plume, termed the *Chino Basin Improvement and Groundwater Clean-up Project*. The California State Water Resources Control Board Division of Drinking Water (DDW) and the Regional Board are both involved in the review process of the M&RP. Pursuant to the requirements in the Proposition 1 Grant Agreement at least two additional monitoring wells will be constructed. One will be located just up gradient of well II-12 (MW-4), and one will be located within the area of the highest concentration of TCE within the plume (MW-5).<sup>18,19</sup> The approximate locations of wells II-MW-4 and II-MW-5 are shown in Exhibit 1. The work to finalize the M&RP is currently underway. The CDA and IEUA have been working with the Regional Board on comments and

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<sup>13</sup> Regional Board (2020). *Comments on 2020 Private Water Supply Well Sampling Workplan, South Archibald Trichloroethene Plume, Ontario, California (Stipulated Cleanup and Abatement Order No. R8-2016-0016) (Global ID# T10000004658; PCA #2080137)*. August 13, 2020.

<sup>14</sup> Division of Drinking Water (2020). *Approval Letter to Chino Basin Desalter Authority – Desalter Authority – Desalter II, System No. 3310083 South Archibald Plume Project – Well II-12 Design*. June 23, 2020.

<sup>15</sup> Regional Board (2020). *Comments on the Northern well Design Report for South Archibald Plume Remedy Pursuant to Stipulated Settlement and Cleanup and Abatement Order No. R8-2016-0016 (Global ID# T10000004658; PCA #2080137)*. June 29, 2020.

<sup>16</sup> CDA Board of Directors July 2020 Meeting Agenda and Minutes.

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

<sup>17</sup> Ibid.

<sup>18</sup> Ibid.

<sup>19</sup> 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.





response to comments on the draft M&RP since the latter part of 2019.<sup>20,21</sup> During this preparation of the draft M&RP, comments from members within the Technical Advisory Committee requested the inclusion of the following two items into the initial project scope: 1) include the additional constituents of 1,2,3-trichloropropane, 1,4-dioxane, perchlorate, and hexavalent chromium as part of the initial analytes to sample for the M&RP; and 2) the design and construction of two additional depth-discrete monitoring wells to monitor aquifer cleanup.<sup>22</sup> Implementation of the two items is expected to extend the completion date of the final MR&P by two years past the scheduled completion date of October 31, 2020. On September 23, 2020, the IEUA and CDA submitted a formal *Request for Time Extension* to the State Water Resources Control Board Groundwater Grant Program for an extension and scope deviation for the project under the Proposition 1 Groundwater Agreement No. D1712507, for the inclusion of the two mentioned items.

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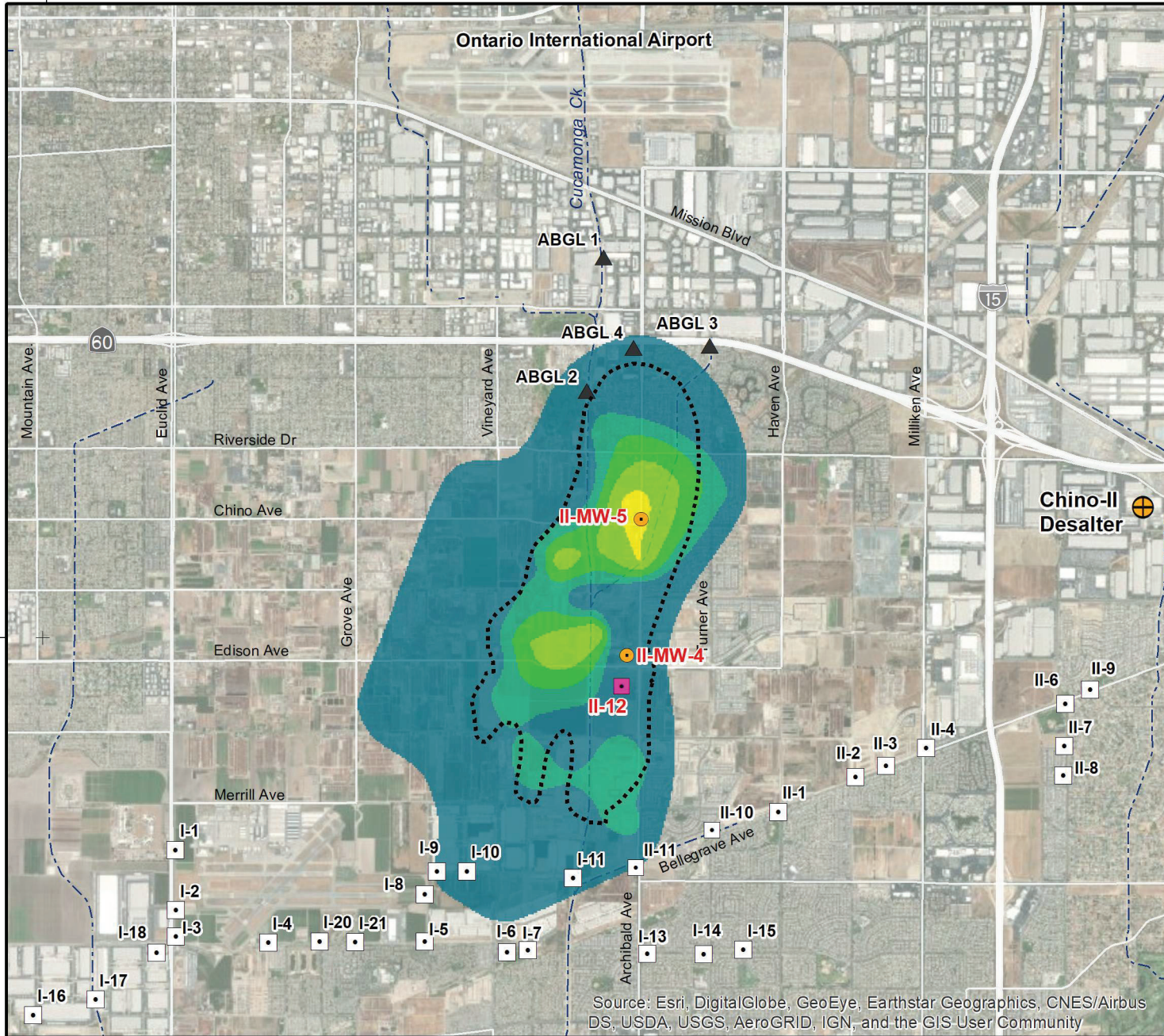
<sup>20</sup> Regional Board (2020). *Comments on Monitoring and Reporting Plan and Request for Additional Monitoring for Inland Empire Utilities Agency and Chino Basin Desalter Authority Clean-Up Project (Grant Agreement No. D1712507)*. January 31, 2020.

<sup>21</sup> Region Board (2020). *Comments on Draft Monitoring Plan and Draft Project Assessment and Evaluation Plan for Inland Empire Utilities Agency and Chino Basin Desalter Authority Clean-Up Project (Grant Agreement No. D1712507)*. April 24, 2020.

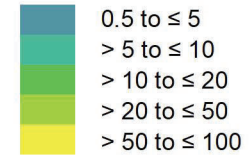
<sup>22</sup> Regional Board (2020). *Comments on Monitoring and Reporting Plan and Request for Additional Monitoring for Inland Empire Utilities Agency and Chino Basin Desalter Authority Clean-Up Project (Grant Agreement No. D1712507)*. January 31, 2020.



117°40'0"W



Maximum TCE Concentration (µg/l)  
July 2013 to June 2018



(Delineated by Watermaster in the 2018 State of the Basin Report)

Approximate Extent of TCE greater than or equal to 5 µg/l as delineated in the 2019 Annual Groundwater Monitoring Report (Dudek, 2019)

Chino Basin Desalter Authority Production Wells:

- Existing (Constructed Between 1999-2018)
- Under Construction
- Chino-II Desalter Treatment Facility
- Proposed Monitoring Well
- ABGL Monitoring Well
- Streams & Flood Control Channels

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

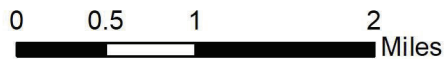


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

117°40'0"W  
Prepared by:



Author: SO  
Date: 9/17/2020  
Name: SouthArchibald\_20200917







## SEMI-ANNUAL PLUME STATUS REPORT

### CHINO AIRPORT PLUME

October 2020

#### Contaminants

The County of San Bernardino Department of Airports (County) identifies four primary 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)	Maximum Concentration July 2015 to June 2020 (µg/l)
TCE	5.0	830
1,2,3-TCP	0.005	44
cis-1,2-DCE	6.0	40
1,2- DCA	0.5	1.5

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 *2018 State of the Basin Report*<sup>1</sup> and the County for their most recently published monitoring report.<sup>2</sup> The delineations prepared by Watermaster show the spatial distribution of TCE and 1,2,3-TCP concentrations based on the five-year maximum concentrations measured over the period of July 2013 to June 2018. The delineations by the County show the area where TCE concentrations are greater than or equal to 5.0 µg/l and 1,2,3-TCP concentrations are greater than or equal to 0.005 µg/l.

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 Plume than the East Plume. The extent of the West Plume is also much larger, extending in a

<sup>1</sup> Wildermuth Environmental Inc. (2019). *Optimum Basin Management Program - 2018 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2019.

<sup>2</sup> Tetra Tech. (2020). *Semiannual Groundwater Monitoring Report-Summer and Fall 2019*. Prepared for the County of San Bernardino Department of Airports. April 2020.

south-southwest direction. The East Plume extends in the same general direction and terminates within the boundary of the Chino Airport property. The West and East TCE plumes are comingled and are delineated together as one plume; whereas, the West and East 1,2,3-TCP plumes are delineated as two distinct plumes.

*TCE Plumes.* The extent of the West Plume with detectable TCE concentrations greater than 0.5 µg/l is about 2.4 miles long. The plume extends south-southwest approximately 1 mile 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, the “no-flow” boundary conditions of the Chino Hills, or historical pumping from former production 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 0.5 miles and then comingles with the West TCE plume between the two different source areas.

*1,2,3-TCP Plumes.* The extent of the West 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 2.4 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 disconnected from the West 1,2,3-TCP Plume.

Over time, the vertical and lateral extents of the plumes have changed in response to groundwater production at nearby wells and other hydrological factors. Production at the nearby Chino Desalter Basin Authority (CDA) wells has likely played a role in affecting the extents of the plumes. Since monitoring began, groundwater production at the CDA wells has increased the vertical thickness of the West Plume by 100 feet or more and has drawn the East Plume laterally in a southeast direction toward CDA well I-20.

#### Regulatory Orders – Regional Water Quality Control Board, Santa Ana Region

- 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 Regional Board comments on the draft Feasibility Study and submit a final Feasibility Study.

#### 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 several areas 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 (RAOs) for groundwater contaminants originating from the Chino Airport and evaluating remediation alternatives for mitigation.<sup>3</sup> 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 remedial action plan (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.<sup>4</sup> 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).<sup>5</sup> The IRAP was considered “interim” because the County is moving forward on an interim basis to initiate the remedial action as quickly as possible, with the opportunity to evaluate an expansion of the existing remedy or additional remedial actions in the future. The draft IRAP identified a combination of institutional controls, monitored natural attenuation, and groundwater

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

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

<sup>5</sup> 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.



extraction and ex-situ treatment as the best remedial alternative. From April 2018 to January 2019 CEQA analysis was completed for the proposed remedial strategy.<sup>6</sup> During this time the Regional Board and County went through a series of comments and response to comments on the draft IRAP. The Final IRAP was submitted to the Regional Board on May 18, 2020.<sup>7</sup> While the Final IRAP was being reviewed the County installed 13 additional monitoring wells, and 5 extraction wells and 12 piezometers at two locations on the Airport as part of an aquifer pumping test program to support the design of the full-scale groundwater extraction and treatment system.

### Remedial Action

The remedial action described in the IRAP consists of institutional controls, monitored natural attenuation, and a groundwater pump-and-treat system to contain the West and East Plumes. The proposed groundwater pump-and-treat system will consist of an estimated ten groundwater extraction well clusters (EWs). At each location, up to three individual extraction wells will be installed in a grouped configuration to allow focused extraction from specific lithologic zones. The EW locations in the West Plume include: three EWs along the western Site boundary, two to the west of the Site and three south of the Site. The EW locations in the East Plume include: one EW at the downgradient edge of the source area and one EW at the leading edge of the plume. Exhibit 1 shows the ten EW locations. In total, the extraction wells are predicted to produce 900 gallons per minute (gpm) of groundwater. The extraction well network will also utilize existing CDA wells I-16, I-17, and I-18 to pump up to about 680 gpm of groundwater.

Extracted groundwater will be treated using carbon adsorption at the County's VOC treatment system, which will be constructed offsite at the CDA treatment facility. If this arrangement is not feasible or if the CDA cannot take all or part of the additional water, an alternate or supplemental treatment system will be constructed on the Airport property. The County's VOC treatment system will not include treatment for nitrates or TDS, which are regional contaminants and not associated with Airport operations or the plume. An optional air stripper may be added to the treatment system if deemed necessary to improve VOC removal efficiencies, reduce spent carbon, and/or reduce treatment costs.

Once treated, water will be pumped to one of the following: the existing CDA treatment facility (for additional treatment before being delivered as drinking water); an on-site storm or sanitary sewer; the off-site Inland Empire Utilities Agency (IEUA) municipal water recycling treatment plant; the IEUA recycled water distribution line; or injection wells that would be installed in the northeast corner of the Chino Airport. The treatment system is assumed to be operated for a minimum of fifty years to meet target cleanup goals defined in the IRAP and listed below:

- On-site plumes: the target cleanup goals for active remediation are 5 µg/l for TCE and 0.005 µg/l for 1,2,3-TCP. These goals support the remedial action objective of stopping any further contaminants above the remediation goal from leaving the site.

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<sup>6</sup> Filing of the Notice of Determination for the Mitigated Negative Declaration was completed on January 29, 2019

<sup>7</sup> 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.



- Off-site plumes: the target cleanup goals for active remediation are 50 µg/l for TCE and 0.5 µg/l for 1,2,3-TCP.

From February to June 2018, the County conducted aquifer pumping tests to acquire lithologic and hydraulic data to assist in the design of the groundwater pump-and-treat system. The County installed twelve piezometers, eleven monitoring wells, and five extraction wells (two locations) to conduct these aquifer pump tests. Exhibit 1 shows the piezometer and extraction well cluster locations. Aquifer pumping tests were completed in September 2018, and the findings were submitted to the Regional Board on June 19, 2019.<sup>8</sup>

The institutional controls to be implemented at the Airport include land use covenants to prevent direct on-site exposure to contaminants by prohibiting the use of untreated groundwater and preventing risk from on-site vapor by avoiding on-site residential land usage.

### Monitoring and Reporting

Currently, the County conducts quarterly, annual, or biennial water-quality monitoring, and quarterly water-level monitoring at 86 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 Regional Board's GeoTracker website.<sup>9</sup> Conclusions from the monitoring program can also be found in the semi-annual reports posted on GeoTracker. The most recent monitoring report *Semiannual Groundwater Monitoring Report-Summer and Fall 2019* was submitted to the Regional Board in April 2020.<sup>10</sup>

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

As described above, the Final IRAP was submitted to the Regional Board on May 18<sup>th</sup>, 2020. The IRAP is pending final approval by the Regional Board. The most recent semi-annual groundwater

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<sup>8</sup> 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 2019.

<sup>9</sup> [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=SL208634049](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049)

<sup>10</sup> Tetra Tech. (2020). *Semiannual Groundwater Monitoring Report-Summer and Fall 2019*. Prepared for the County of San Bernardino Department of Airports. April 10, 2020.





monitoring report prepared by the County was submitted to the Regional Board in April 2020.<sup>11</sup> Monitoring was conducted in August and October 2019. 28 of the 86 monitoring wells were sampled for groundwater quality and all 86 monitoring wells were measured for groundwater level elevations. The following describes the key conclusions presented in the report:

- Groundwater potentiometric surface slope direction and gradients were generally consistent with previous monitoring events except for a noticeable change in slope direction during Fall 2019. This change is likely due to extraction from the CDA wells and may indicate the potential for lateral migration of the plumes in shallow groundwater.
- Reduced pressure at depth and the vertical gradients appear to be influenced by groundwater extraction from nearby production wells and indicate the potential for vertical migration of contaminants.
- 10 VOCs were detected above the method detection limit, but only TCE and 1,2,3-TCP were detected above their respective MCLs. The maximum TCE concentration detected in the West Plume was 320 µg/l at well CAMW4, and the maximum TCE concentration detected in the East Plume was 7.5 µg/l at well CAMW48. The maximum detected 1,2,3-TCP concentration was 0.75 µg/l at well CAMW52.

The increasing concentrations of TCE in wells located along the southeastern plume boundary, specifically in well CAMW5 and guard well CAMW48, may indicate that the East Plume is migrating southeast, as a result of downgradient pumping. To further monitor this, the County installed a cluster of three downgradient wells (CAMW 68/69/70) in April and May 2020. Their location is shown in Exhibit 1.

Additionally, aquifer pump testing for seven monitoring wells and three former agricultural production wells was performed between March and April in 2020 with the goal of estimating the aquifer properties beneath the eastern and southern portions of the Airport to better define a low-conductivity zone observed during previous drilling. The data acquired from these tests will be used to refine future groundwater model updates and evaluate capture of the East Plume. The results were submitted to the Regional Board on July 10, 2020.<sup>12</sup>

Finally, on June 25, 2020 the County submitted a per-and polyfluorinated alkyl substances (PFAS) Sampling and Analysis Report<sup>13</sup> with the results of PFAS sampling performed in February and March of 2020 at the request of the State of California Division of Drinking Water. Sampling occurred in the areas of the two extraction well clusters that have already been constructed for the pump-and-treat system and near the eight proposed locations where future extraction wells

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<sup>11</sup> Tetra Tech. (2020). *Semiannual Groundwater Monitoring Report-Summer and Fall 2019*. Prepared for the County of San Bernardino Department of Airports. April 10, 2020.

<sup>12</sup> Tetra Tech. (2020). *Short-term Aquifer Pumping Test Report, Former Irrigation Wells and Monitoring wells, Chino Airport Groundwater Assessment, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. July 10, 2020.

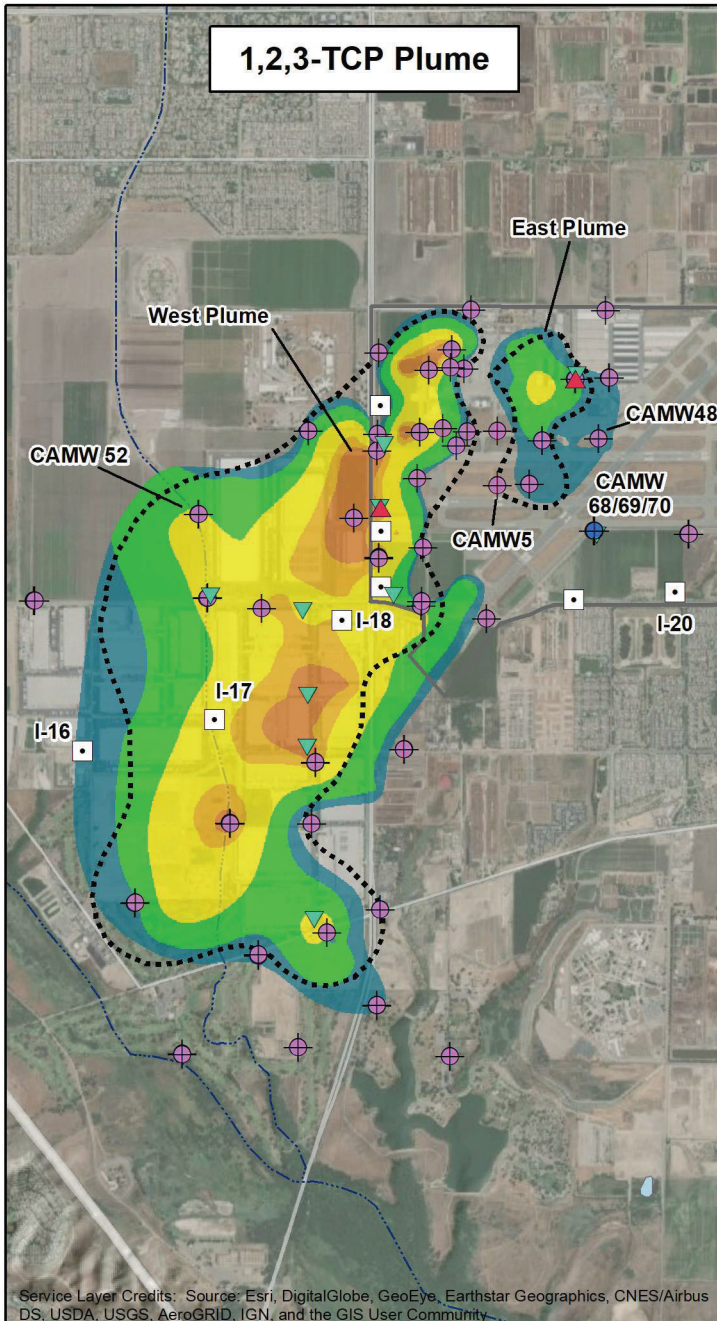
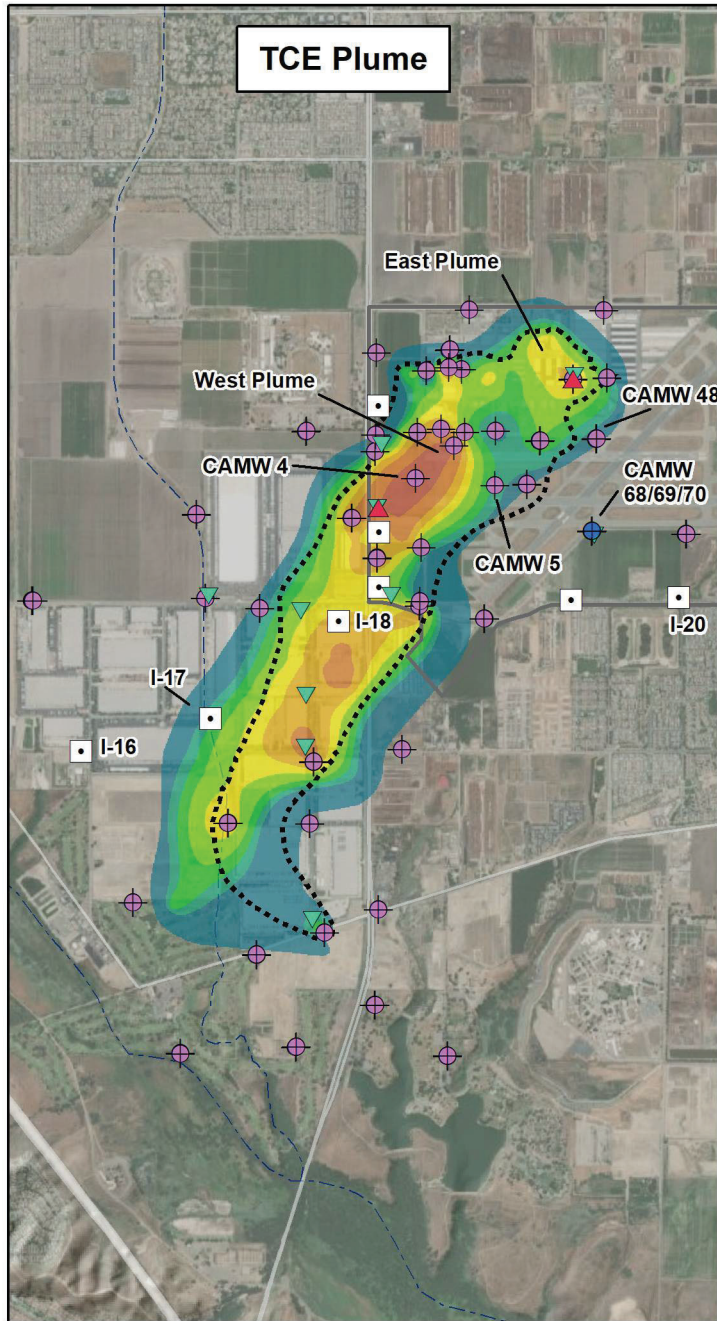
<sup>13</sup> Tetra Tech. (2020). *Per and Polyfluorinated Alkyl Substances (PFAS) Sampling and Analysis Report, Chino Airport Groundwater Remediation, San Bernardino County, California*. Prepared for the County of San Bernardino Department of Airports. June 25, 2020.





are planned. A total of ten extraction and monitoring wells were sampled. Twelve PFAS compounds were detected in one or more samples and PFOA and PFOS were both detected above their respective Notification Levels (NLs). Specifically, PFOA was detected above the NL at four wells and PFOS was detected above the NL at one well. The PFAS detections were primarily within the West Plume.





Maximum Concentration ( $\mu\text{g/L}$ )  
July 2013 - June 2018

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 2018 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 as Delineated by the County of San Bernardino Using Data Through 2019

County of San Bernardino Monitoring Well (some locations have multiple well casings at various depths)

- Well Constructed Between 2003 and 2019
- New Well Cluster Constructed in 2020
- Piezometer and Extraction Well Cluster
- Proposed Location of Extraction Well Cluster
- Chino Basin Desalter Authority Production Well
- Chino Airport Boundary
- Streams & Flood Control Channels



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

#### **IV. INFORMATION**

##### **2. PLUMES STATUS REPORT**

###### Plumes Annual Status Reports

- California Institution For Men Plume
- Former Kaiser Steel Mill Plume and CCG Ontario Monitoring and Remediation
- General Electric Test Cell Plume
- General Electric Flatiron Plume
- Milliken Landfill Plume
- Stringfellow Plume





## ANNUAL PLUME STATUS REPORT

### CALIFORNIA INSTITUTION FOR MEN PLUME

October 2020

#### Contaminants

The primary contaminant is tetrachloroethene (PCE). The maximum contaminant level (MCL) for PCE is 5 micrograms per liter ( $\mu\text{g/l}$ ). The highest concentration of PCE measured historically at a well within the plume is 1,990  $\mu\text{g/l}$  (MW-7 in 1998). 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 occupies roughly 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 CIM property. Exhibit 1 shows the spatial extent of the PCE plume, as delineated by the Chino Basin Watermaster (Watermaster) in the *2018 State of the Basin Report*.<sup>1</sup> 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

Since 1939, the State of California Department of Corrections and Rehabilitation (State) has operated CIM. The primary uses of the CIM property include agricultural operations, inmate housing, and correctional facilities. The Heman G. Stark Youth Correctional Facility occupies the eastern portion of the CIM property. In addition to producing water for its own facilities, CIM provides potable water produced from onsite groundwater wells to both the nearby Youth Correctional Facility and the California Institution for Women. CIM operates 11 water supply wells (five potable and one non-potable active in 2020), a distribution system, and a water treatment plant. 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.

#### 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 direction from the Regional Board, and on December 17, 2009, the Regional Board determined "No Further Action" was required for remediation and monitoring.

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<sup>1</sup> Wildermuth Environmental, Inc. (2019). *Chino Basin Optimum Basin Management Program-2018 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2019.

In addition, there are three leaking underground storage tank (LUST) cleanup sites on the CIM property that are considered unrelated to the PCE contamination and 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). No regulatory orders exist for groundwater remediation or monitoring at the CIM LUST sites. In 2006, two of the sites were closed by the State Board, having met the requirements under the LTCP. The other LUST site remains open with ongoing monitoring and remediation for petroleum hydrocarbons.

### 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.<sup>2</sup> 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 site at the five potential sites identified in Phase I.<sup>3</sup> Seven groundwater monitoring wells were installed and sampled as part of this investigation. The results from the soil vapor investigation and the groundwater quality analysis 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 and soil vapor 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 that there were three distinct aquifer zones below the CIM and that PCE and other VOCs were migrating laterally from the shallow zone to the intermediate and deep zones where the drinking water supply wells are screened. Between August 1994 and

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<sup>2</sup> 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.

<sup>3</sup> 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. October 4, 1994.



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 remedial measure 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 (Wells 8 and 11) were destroyed to protect the deeper aquifer from the downward movement of VOC contaminated groundwater.

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 during January 2007, which included groundwater quality sampling at 39 water supply and monitoring wells at the CIM property.<sup>4</sup> Based on this monitoring event and data from previous monitoring efforts, it was concluded that despite the concentrations of PCE exceeding the MCL at three monitoring wells, PCE concentrations in groundwater in the shallow zone were overall stable or decreasing. PCE concentrations in the deeper aquifer at the CIM drinking water supply wells, however, were all below the MCL and had been 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 CIM. On December 17, 2009, the Regional Board issued a determination of NFA for the CIM site.<sup>5</sup>

### 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.<sup>6</sup> 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 57.9 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

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<sup>4</sup> 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.

<sup>5</sup> 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.

<sup>6</sup> Geomatrix Consultants, Inc. (2005). *PCE Remediation Project Report. California Institution for Men*. Prepared for the California Department of General Services. July 2005.



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 13.8 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 provide a cost-effective benefit to the protection of 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 approval of the 2009 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). It was agreed amongst the consultants, counsel, the State, and the Watermaster to preserve some of the CIM monitoring wells for the Watermaster's groundwater-level monitoring program pursuant to the Optimum Basin Management Program (OBMP). Watermaster and the State agreed to preserve 16 wells. The location of these wells is shown in Exhibit 1.

CIM continues to monitor groundwater-quality at its potable supply wells as part of its water supply operations under DDW regulations. The State samples the five active potable supply wells for PCE and TCE monthly 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.<sup>7</sup>

### Recent Activity

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

The most recent characterization of the plume was completed by Watermaster in the *2018 State of the Basin Report* (Exhibit 1). Since the NFA determination, the PCE plume has shown no significant change, based on available data. The following table summarizes the five-year maximum detected PCE concentration (July 2015 to June 2020) for the CIM supply wells the plume, based on monthly DDW sampling:

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<sup>7</sup> [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/EDTlibrary.shtml](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/EDTlibrary.shtml)





Maximum Five-Year PCE Concentration in CIM Supply Wells (July 2015 – June 2020)

Well	Maximum PCE (µg/l)
1	15
1A	1.8
11A	1
14	1.1
15	4.6
16	1.9

There are recent activities associated with the CIM State garage LUST cleanup site that impact the area of the PCE plume. The State garage LUST site is located approximately 330 feet northwest of CIM drinking water supply well 1A within the center of the PCE plume, and there is concern that total petroleum hydrocarbons (TPH) contamination from the site could infiltrate the deeper aquifer from which CIM drinking water supply Well 1A produces water. On March 8, 2019, the Regional Board formally rejected the State’s request for closure of the State garage LUST site, citing that several criteria had not been met and indicated that the groundwater assessment is incomplete between the State garage LUST site and CIM Well 1A.<sup>8</sup> The Regional Board requested that further assessment be done to determine the TPH and other fuel-related contaminants conditions in the soil and groundwater near the State garage LUST and downgradient CIM drinking water supply Well 1A.

On July 26, 2019, the State submitted a work plan<sup>9</sup> for this additional investigation, that included collecting samples at four soil borings, and all of the 35 groundwater monitoring wells associated with the State garage LUST site. The Regional Board approved the work plan in April 2020 and the additional investigation was conducted in conjunction with the routine annual monitoring event in May 2020. A report<sup>10</sup> was submitted to the Regional Board in July 2020 on the monitoring and findings. In summary the investigation concluded:

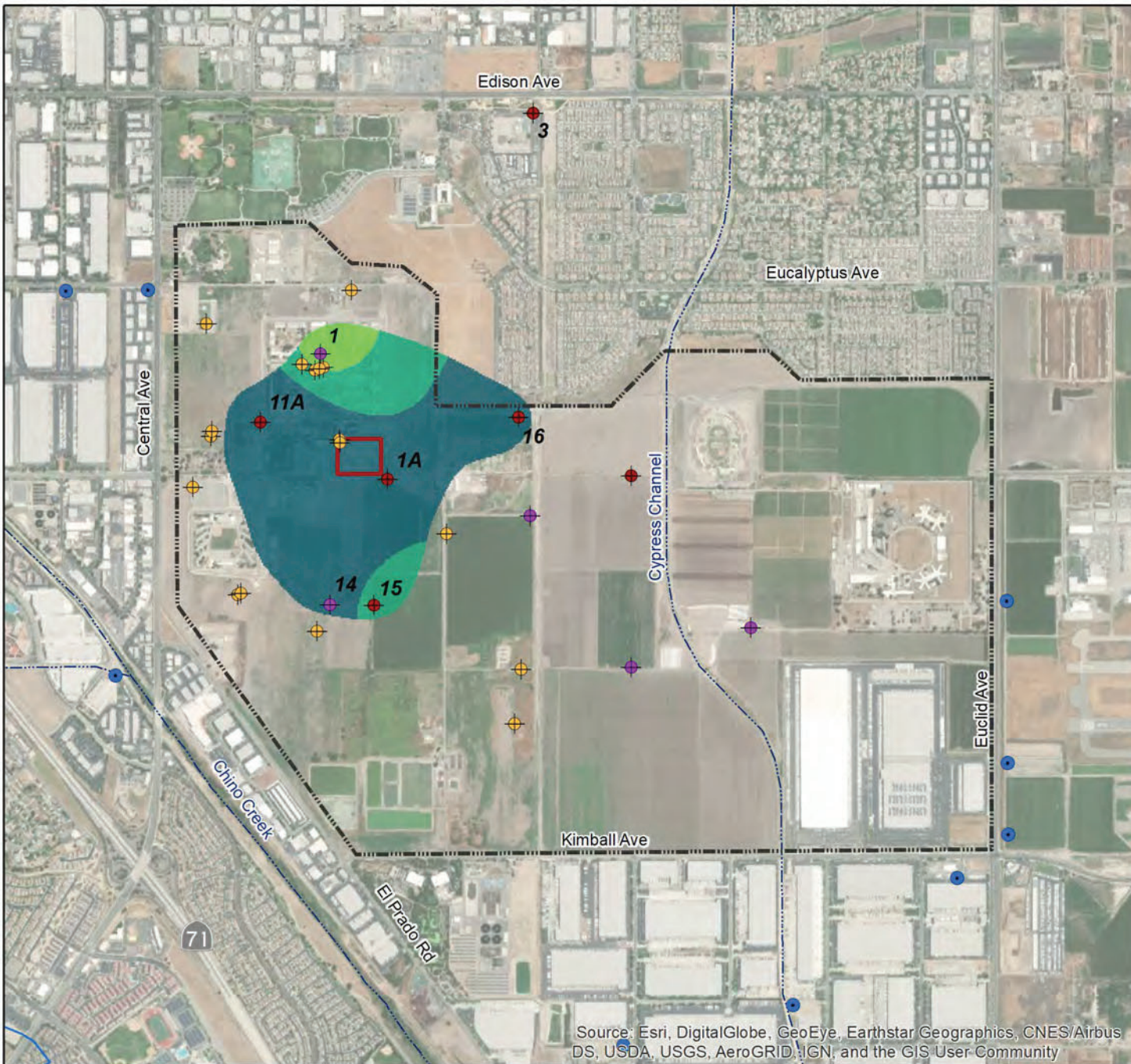
- TPH and other fuel-related contaminants have decreased several orders of magnitude in the perched aquifer below the State garage LUST site and that they are not found in the perched aquifer downgradient.
- The downgradient extent of the dissolve TPH plume from the State Garage LUST site has not changed and is not migrating.
- TPH and most other fuel-related contaminants continue not to be detected in the deep aquifer monitoring wells and the plume is not moving towards the CIM drinking water supply Well 1A.

<sup>8</sup> 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.

<sup>9</sup> Avocet Environmental, Inc. (2019). *Work Plan for Additional Investigations California Institution for Men – State Garage*. July 26, 2019

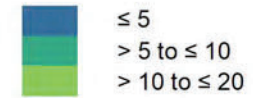
<sup>10</sup> Avocet Environmental, Inc. (2020). *2020 Annual Groundwater Monitoring and Additional Investigations Report California Institution for Men – State Garage*. July 29, 2020.





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

Maximum PCE Concentration (μg/l)  
July 2013 to June 2018



(Delineated by Watermaster in the 2018 State of the Basin Report)

CIM Water Supply Wells

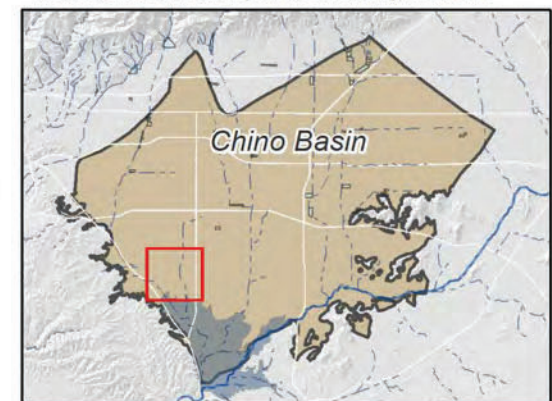
- Active as of Fiscal Year 2020
- Inactive as of Fiscal Year 2020
- Other Agency Potable Municipal Water Supply Wells

CIM Monitoring Wells Preserved for the Watermaster Groundwater-Level Monitoring Program (some locations have multiple wells at various depths)

- Boundary of CIM State Garage LUST Site
- CIM Property Boundary

Streams & Flood Control Channels

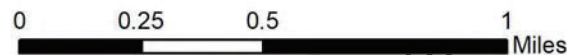
\* Wells referenced in the report are labeled by well name



Prepared by:



Author: LH  
Date: 10/1/2020  
Name: 20201001\_CIM\_PlumeStatus







# ANNUAL PLUME STATUS REPORT

## FORMER KAISER STEEL MILL PLUME AND CCG ONTARIO MONITORING AND REMEDIATION

October 2020

### Contaminants

From 1983 to 1993, the primary contaminants of concern (COC) 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, COCs associated with the site include: hexavalent chromium, carbon tetrachloride, and chloroform. TDS and TOC are no longer considered COCs.

### Location

The former Kaiser Steel Mill site is a 1,200-acre parcel in an unincorporated area of 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. The last delineation of the Kaiser TDS/TOC plume extent was completed in 2008<sup>1</sup> 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. Exhibit 1 shows the location of the site and the extent of the TDS plume in 2008. 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.

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<sup>1</sup> 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.

- 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)<sup>2</sup> 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.

### Regulatory Orders

There have been several regulatory orders issued to various tenants of the former Kaiser Steel Mill property 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.
- California Department of Health Services (now DTSC) Consent Order with California Steel Industries, Inc. (August 1995)—Required California Steel Industries, Inc. to conduct a Site Investigation, perform health risk assessment at the California Steel Industries, Inc. property, and develop and implement actions 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 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<sup>3</sup> 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. 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

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

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

investigation,<sup>4</sup> completed in March 1986, resulted in the construction of monitoring wells at six additional locations (five single-nested and one quadruple-nested wells). 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<sup>5</sup> 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.

On August 22, 1988, a Consent Order<sup>6</sup> was signed between the Kaiser Steel Corporation and the California Department of Health Services, Toxic Substances Control Division (now known as the DTSC, as stated above) to ensure that any release or threatened release of contamination to the air, soil, surface water, or groundwater at the site is thoroughly investigated, and that appropriate remedial actions are taken. 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*,<sup>7</sup> which identified twenty areas for remedial investigation. The Phase I and II remedial investigations<sup>8</sup> were completed in April and October of 1990, respectively. The results of these investigations concluded:

- 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.
- Two areas required the removal of contaminated materials: the cooling tower sludge pit and the furnace dust and mill scale piles. Remediation of the byproducts plant area and cooling tower sludge pit began in 1995 prior to the construction of the Auto Club Speedway.

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*

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

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

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

<sup>7</sup> JMM. (1989). *RCRA Facility Assessment Report*. Prepared for Kaiser Steel Resources Inc. January 1989.

<sup>8</sup> [https://www.envirostor.dtsc.ca.gov/public/profile\\_report?global\\_id=60001356](https://www.envirostor.dtsc.ca.gov/public/profile_report?global_id=60001356)



*Groundwater Remediation Feasibility Study Draft Report*<sup>9</sup> was published in 1991; it analyzed a salt-offset alternative and nine other groundwater remediation alternatives. 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 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 the California Steel Industries, Inc. to develop and implement Expedited Remedial Action Plan (ERAP) on its property that was purchased from the former Kaiser Steel Mill Site.<sup>10</sup> Pursuant to the ERAP, a site investigation was performed at 28 areas on the California Steel Industries, Inc. 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.<sup>11</sup> 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 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 Order<sup>12</sup> 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.

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

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

<sup>11</sup> 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.

<sup>12</sup> DTSC No. I&SE -CO 00/01-001 Imminent and Substantial Endangerment Determination and Consent Order (Health and Safety Code Sections 25355.5(a)(1)(B) and (C), 25358.3 (a), 58009 and 58010.) August 10, 2000.



## Remedial Action

As previously noted, remediation activities associated with the TDS and TOC plumes ended with the adoption of the 1993 Salt Offset Agreement. The 2000 Consent Order between the DTSC and CCG 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 (RAP) 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.<sup>13</sup> The DTSC approved the final amended RAP in 2001.<sup>14</sup>
- **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 and a 13-acre cap over the protective soil layer, and groundwater monitoring.<sup>15</sup> The DTSC approved the final RAP on May 1, 1995.<sup>16</sup>
- **OU-3 – East Slag Pile Landfill Area.** 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.<sup>17</sup> The DTSC approved the final RAP on October 31, 2007.<sup>18</sup>
- **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.<sup>19</sup>

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 are published semi-annually for OU-1, OU-3, and OU-4, and annually for OU-2 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

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<sup>13</sup> 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.

<sup>14</sup> 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.

<sup>15</sup> 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

<sup>16</sup> DTSC. (1995). *Letter – Remedial Action Plan for Kaiser Resources, Inc. Operable Unit No. 2 is Approved*. May 1, 1995.

<sup>17</sup> 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.

<sup>18</sup> 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.

<sup>19</sup> Shaw Environmental Inc. (2009). *Final Remedial Action Plan OU-4*. Prepared for CCG Ontario LLC. January 2009.



and CCG. The 2008 *Groundwater Remedial Investigation Work Plan*<sup>20</sup> (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. The 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 EPA 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*<sup>21</sup> (2016 Final RI/FS/RAP), which included the results of the Site-Wide 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.<sup>22</sup> CCG is working with DTSC to complete the Remedial Design Implementation Plan in 2021.

### Monitoring and Reporting

Current groundwater monitoring activities are performed pursuant to the long-term<sup>23</sup> operations and maintenance plans for OU-2,<sup>24</sup> OU-3,<sup>25</sup> and OU-4.<sup>26</sup> The Site-Wide Groundwater Monitoring Program for OU-5 includes 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. Monitoring activities for the OU-5 Site-Wide Groundwater Monitoring Program have not initiated as of June 2020.

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<sup>20</sup> Shaw Environmental Inc. (2008). *Groundwater Remedial Investigation Work Plan; Former Kaiser Steel Mill*. Prepared for CCG Ontario LLC. October 2008.

<sup>21</sup> Iris Environmental Inc. (2016). *Final Groundwater Remedial Investigation Report/Feasibility Study and Remedial Action Plan*. Prepared for CCG Ontario, LLC. September 2016.

<sup>22</sup> 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

<sup>23</sup> Long-term includes at least 30 years of operations and maintenance for each OU.

<sup>24</sup> SCS Engineers. (1995). *Operation & Maintenance Agreement – Operable Unit No. 2*. Prepared for Kaiser Resources Inc. September 1995.

<sup>25</sup> 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.

<sup>26</sup> 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.



Exhibit 1 shows the locations of the current well sites monitored for OU-2 through OU-4 and future monitoring locations for OU-5. The table below summarizes the number of wells, sampling frequency, and duration of sampling for each monitored OU.

Operable Unit	# of Wells	Sampling Frequency (Duration)
<b>OU-2</b>	5	Quarterly (2009-2014); Semi-annual (2015-present)
<b>OU-3</b>	9	Quarterly (2009-2014); Semi-annual (2015-present)
<b>OU-4</b>	14	Quarterly (2009-present)
<b>OU-5 (final RAP)</b>	20	Semi-annual (pending)

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*<sup>27</sup> was submitted to the DTSC on April 1, 2016. The report concluded that the remedial actions for all OUs were functioning as intended. The second Site-Wide Five-Year Report is scheduled to be published in 2021.

Watermaster samples eleven monitoring wells annually at four downgradient locations (Exhibit 1) 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 monitoring wells in two locations and six Chino Basin OBMP Management Zone 3 (MZ3) monitoring wells in two location shown in Exhibit 1.

### Recent Activity

CCG is in the process of revising and finalizing the Remedial Design Implementation Plan for OU-5. Per the DTSC's request, CCG sampled all existing OU-5 wells during third quarter 2019. Results from this sampling event will be used to provide information on the need for and locations of additional wells for incorporation into the Site-Wide Groundwater Monitoring Program. The Remedial Design Implementation Plan for OU-5 will be submitted to DTSC in 2021.

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. The following summarizes the contaminants with concentrations that exceed the maximum

<sup>27</sup> RPS Iris Environmental. (2016). *Final Site-Wide Five-Year Review Report*. Prepared for CCG Ontario LLC. April 2016.



contaminant levels (MCLs) at one or more monitoring wells for each OU for the most recent sampling event for each OU:

Operable Unit (OU)	Constituent of Concern	Highest Concentration	Maximum Contaminant Level (MCL)	# of Wells Exceeded MCL
OU-2	Nitrate <sup>1</sup>	21 mg/l	10 mg/l	5
	Sulfate	318 mg/l	250 mg/l	1
OU-3	Sulfate	303 mg/l	250 mg/l	1
OU-4	Nitrate <sup>1</sup>	42 mg/l	10 mg/l	7
	Sulfate	551 mg/l	250	1
	Chromium	106 µg/l	50 µg/l	2
	Hexavalent Chromium	106 µg/l	10 µg/l	8
	Carbon tetrachloride	2.6 µg/l	0.5 µg/l	1

Note: This table includes the results of the groundwater sampling events at wells within the boundaries of OU-2, OU-3, and OU-4 in February and June 2020.

mg/l = milligrams per liter; µg/l = micrograms per liter

1. Nitrate as nitrogen

Groundwater quality monitoring data at the CCG well MW-16s, which is located downgradient of the California Steel Industries, Inc. site, show an increasing trend in chromium concentration. Because of this, the DTSC is requesting that California Steel Industries conduct a groundwater investigation on its property.<sup>28</sup> The groundwater investigation may provide additional information on the source of elevated levels of chromium concentrations downgradient of the former Kaiser Steel Mill site.

Watermaster performed its most recent annual sampling event at key wells located downgradient from the former Kaiser Steel Mill site and other industrial facilities in August and September 2020 for their annual KWGWQMP (see Exhibit 1). The following contaminants have concentrations that exceeded the MCL at one or more monitoring wells over the last five years from 2016-2020.

<sup>28</sup> DTSC (2019). *Request for Groundwater Investigation Work Plan, California Steel Industries, Inc., Fontana, California (Site Code: 490001)*. December 30, 2019.

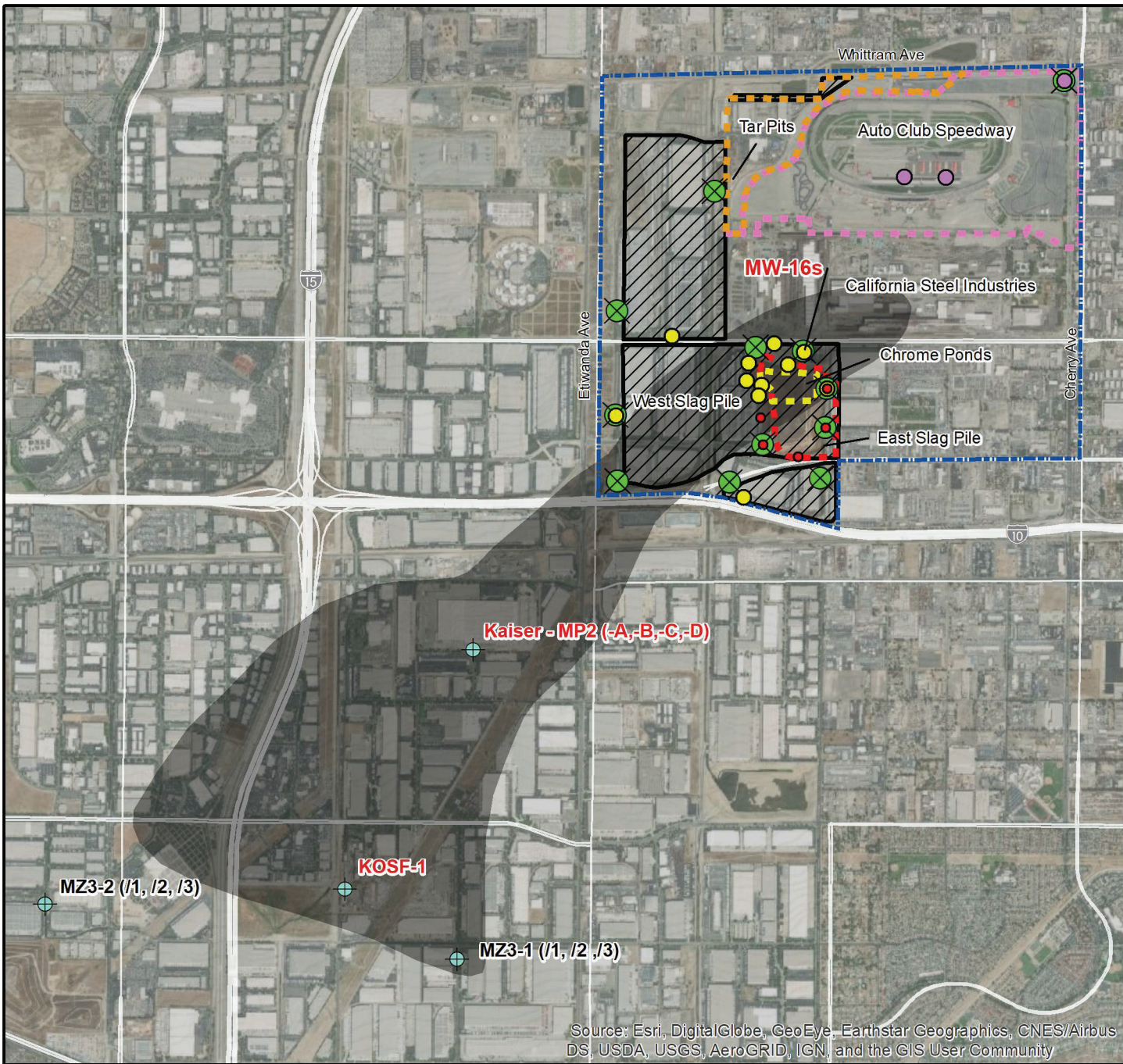
Constituent of Concern	Highest Concentration	Maximum Contaminant Level (MCL)	# of Wells Exceeded MCL
1,1-Dichloroethene	36 µg/l	6 µg/l	2
Arsenic	0.018 mg/l	0.01 mg/l	2
Chromium	5,200 µg/l	50 µg/l	3
Hexavalent Chromium	11 µg/l	10 µg/l	1
Nitrate <sup>1</sup>	13 mg/l	10 mg/l	2
Perchlorate	8 µg/l	6 µg/l	3
TDS	680 mg/l	500 mg/l	2
Trihalomethanes	93 µg/l	80 µg/l	1

Note: Not all key wells were sampled in August and September 2020.





mg/l = milligrams per liter; µg/l = micrograms per liter

1. Nitrate as nitrogen







-  Original Property Extent of 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)\*

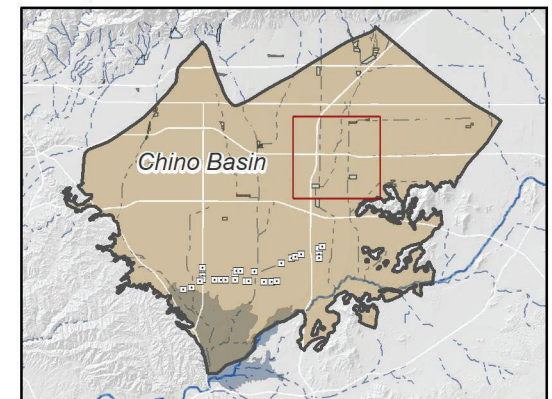
-  OU-2
-  OU-4
-  OU-3
-  OU-5

 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

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

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

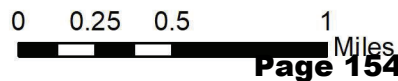


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared by:



Author: SO  
Date: 10/1/2020  
Name: 20200911\_KaiserPlumeStatus\_EX1







# ANNUAL PLUME STATUS REPORT

## GENERAL ELECTRIC TEST CELL PLUME

October 2020

### Contaminants

The primary contaminant is trichloroethene (TCE). The 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 a well within the plume during the last five years (July 2015 to June 2020) is 2,300  $\mu\text{g/l}$ , measured at well OW-15P-I in November 2018. This is also the highest concentration of TCE ever measured at a well within the plume. Other contaminants of concern include the volatile organic compounds (VOCs) of: tetrachloroethene (PCE), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethane (1,2-DCA), and cis-1,2-dichloroethene (cis-1,2-DCE).

### Location

The former General Electric (GE) Engine Services Test Cell Facility (Test Cell Facility) is located in the northern portion of Chino Basin at 2264 East Avion Place within the City of Ontario. Exhibit 1 shows the spatial extent of the GE Test Cell plume with detectable TCE concentrations equal to or greater than 0.5  $\mu\text{g/l}$ , as delineated the Chino Basin Watermaster (Watermaster) for the *2018 State of the Basin Report*.<sup>1</sup> This extent is based on the five-year maximum TCE concentration measured over the period of July 2013 through June 2018. The plume is elongated and extends offsite the facility in a downgradient (southwest) direction approximately 1.9 miles, and measures approximately 0.5 miles wide. Exhibit 1 shows the location and extent of the plume as delineated by Watermaster in 2019, compared to the most recent characterization by GE in its groundwater monitoring report,<sup>2</sup> which was published in the second quarter of 2020.

### 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 included TCE, 1,1,1-trichloroethane (1,1,1-TCA), methyl ethyl ketone, and isopropyl alcohol, which were stored in 55-gallon drums and aboveground storage tanks. In the 1960s or early 1970s, TCE was replaced with 1,1,1-TCA, which was later 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

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<sup>1</sup> Wildermuth Environmental, Inc. (2019). *Chino Basin Optimum Basin Management Program, 2018 State of the Basin Report*. Prepared for Chino Basin Watermaster. June 2019.

<sup>2</sup> Wood Environmental & Infrastructure Solutions, Inc. (2020). *Second Quarter 2020 Groundwater Monitoring Report*. Prepared for GE Engine Services Test Cell Facility. July 9, 2020.



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. And 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.

### 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.<sup>3</sup> In 1985, another consulting firm retained by GE detected 1,1,1-TCA, TCE, and PCE in onsite subsurface soil samples.<sup>4</sup> An investigation performed in 1987 revealed the presence of multiple VOCs in the soil near the disposal sites.<sup>5</sup> 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.<sup>6</sup> In 1993, GE submitted a workplan for the Phase I remedial soil investigation to determine the impacts of VOCs and jet fuel in the soil in the vicinity of the dry wells and Cucamonga Creek.<sup>7</sup> The Regional Board approved the workplan for the Phase I remedial investigation in June 1993. During the Phase I remedial investigation, VOCs were detected in soil samples collected onsite and in excavated soil from the dry wells.<sup>8</sup>

Pursuant to the Consent Order, GE began its groundwater investigations in 1991 with the installation of seven monitoring wells located onsite and upgradient of the site. The monitoring performed at these new wells indicated the presence of VOCs in the groundwater beneath the Test Cell Facility and that the contamination had possibly migrated offsite. Starting in 1994, the Santa Ana Regional Water Quality Control Board (Regional Board) was retained as the lead agency to oversee the groundwater investigation. The Regional Board requested an offsite investigation be performed to determine the extent of groundwater contamination. An extensive

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<sup>3</sup> 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.

<sup>4</sup> Ibid.

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

<sup>6</sup> DTSC. (2019). *Letter from Yolanda Garza to GE – Lead Agency Regulatory Oversight Transfer for General Electric Engine Services Test Cell Facility, 2264 East Avion Place, Ontario (Site Code: 400070)*. May 6, 2019.

<sup>7</sup> Dames & Moore. (1994). *Remedial Action Plan for Impacted Soil – General Electric Jet Engine Test Cell Facility*. Prepared for GE Engine Services Test Cell Facility. September 16, 1994.

<sup>8</sup> Ibid.



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 early 2000s where 22 additional monitoring wells were constructed within multi-depth well clusters. Monitoring at these offsite monitoring wells indicated that the VOC plume extended offsite; composed of TCE, and cis-1,2-DCE and 1,1-DCE (byproducts of TCE degradation). Following the initial groundwater investigation, two offsite multi-depth well clusters were installed between 2001 and 2002 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 (Feasibility Study),<sup>9</sup> followed by a draft remedial action plan (RAP) in 2006.<sup>10</sup> The Feasibility Study and RAP identified pump and treat and monitored natural attenuation as remediation alternatives.

In 2009, additional multi-depth well clusters were installed at two locations offsite and one location onsite to collect data to support monitored natural attenuation.<sup>11</sup> And, pursuant to a 2014 work plan<sup>12</sup> approved by the Regional Board, GE destroyed six monitoring wells that were dry and replaced them with an additional onsite multi-depth well cluster.

In May 2019, the DTSC transferred regulatory oversight of environmental activities at the Test Cell Facility to the Regional Board 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 are 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.

### 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); and (2) monitored natural attenuation of groundwater for areas that have VOC concentrations less than ten times the MCL. Following the submittal of the RAP, ongoing monitoring of the plume indicated that natural attenuation was occurring, and fate and transport modeling indicated that implementation of natural attenuation or pump and treat alternative would both decrease the TCE in the plume to concentrations equal to or less than the MCL within the same time frame of 50 years. In 2010,

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<sup>9</sup> Geosyntec. (2003). *Groundwater Feasibility Study – GE Engines Test Cell Facility, Ontario, California*. Prepared for GE Engine Services. December 3, 2003.

<sup>10</sup> 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.

<sup>11</sup> 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.

<sup>12</sup> Geosyntec Consultants. (2014). *Monitoring Well Installation and Destruction Report. Prepared for Regional Water Quality Control Board, Santa Ana Region*. Prepared for GE Engine Services Test Cell Facility. June 10, 2014.



GE, with approval of the Regional Board, withdrew the 2006 RAP and planned to prepare a RAP for monitored natural attenuation.

Since 2003, TCE concentrations in samples collected from monitoring wells across the extent of the plume generally decreased. In 2008, 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. GE met with the Regional Board in 2008 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. 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 as part of ongoing activities to evaluate monitored natural attenuation. The 2006 Draft RAP was withdrawn in February 2010, and GE and the Regional Board have continued to meet to evaluate monitored natural attenuation as the remedial action for the Test Cell Facility. The Regional Board has specified that the impacts to groundwater and soil have not been adequately addressed and indicated that monitored natural attenuation may not be suitable as the only groundwater remedial action.<sup>13</sup>

In 2019 the Regional Board requested that GE prepare a Conceptual Site Model to aid in determining the appropriate remedial action. GE completed the Conceptual Site Model in November 2019 which is discussed in more detail in the Recent Activity section below

*Soil.* In 1996, Pursuant to the 1988 Consent Order, GE began operating a soil vapor extraction and treatment system to remove VOCs in the soil onsite and to prevent the soil contaminants from entering groundwater. GE was required to conduct a review and reevaluation of the remedial actions for VOCs present in the soil beneath the Test Cell Facility every five years. The *Second Five-Year Review Report*<sup>14</sup> was submitted to the DTSC in October 2008, and it concluded that the soil remediation program significantly reduced VOC concentrations in soil to levels that are no longer harmful to human health or groundwater quality. The DTSC approved the *Second Five-Year Review Report*, and subsequently, the soil remediation was deemed complete in January 2009.

At the request of the Regional Board, six soil-gas probes onsite were installed in 2014 to evaluate potential residual VOCs in soil and their threat to groundwater. Thus far, the monitoring indicates that on-site soil remedial action has successfully removed the onsite source of VOCs to the groundwater.

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<sup>13</sup> Email correspondence with Mr. Alan Kouch at the Regional Board on September 19, 2019.

<sup>14</sup> 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.



## 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 all accessible onsite and offsite monitoring wells and piezometers. This includes 13 single casing monitoring wells, 17 multi-depth monitoring wells in six locations, and seven piezometers. Exhibit 1 shows the locations of all monitoring sites. Quarterly groundwater-quality samples are analyzed for VOCs. 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 Regional Board's GeoTracker website.<sup>15</sup>

## Recent Activity

As noted above, the Regional Board requested that GE submit a comprehensive Conceptual Site Model to aid in determining the appropriate remedial action. GE submitted the Conceptual Site Model to the Regional Board in November 2019<sup>16</sup>. The Conceptual Site Model summarizes the site history, previous investigations and remediation, hydrogeology, and groundwater impacts at the former GE Test Cell Facility. The key summary points include:

- 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.
- TCE concentrations in the most downgradient monitoring well (OW-11) have remained below the MCL since monitoring began.
- Natural attenuation is occurring through biological attenuation of the VOCs via reductive dechlorination and has maintained a stable groundwater plume through 2014. And natural attenuation will continue to prevent plume growth through VOC mass reduction.
- Starting in 2014, the TCE plume has been displaced slightly to the north, most likely due to increased recharge at the Ely Basin. Several monitoring wells located along the northern edge of the plume have been showing notable increases in TCE concentrations since about 2016 because of this displacement.
- A study of trends and fingerprinting of TCE and other compounds in cross-gradient well OW-6 indicates that the increases in TCE concentration at that well are likely due to an off-site source.

The Regional Board has not formally reviewed and commented on the Conceptual Site Model.

The most recently submitted monitoring report for the GE Test Cell facility is the *Second Quarter 2020 Groundwater Monitoring Report*. Groundwater quality samples were collected at 35

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<sup>15</sup> [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=SL208634049](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SL208634049)

<sup>16</sup> 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.



monitoring wells, and groundwater-level measurements were obtained from 40 monitoring wells and piezometers. The monitoring event was conducted in April 2020, and the report documenting the sampling event and results was submitted to the Regional Board in July 2020.<sup>17</sup> The following summarizes some of the key results and conclusions contained in the report:

- Overall TCE concentrations increased at most monitoring wells during this quarter, and the highest TCE concentrations continues to be at well OW-15p-s located at the center of the plume approximately 0.75 miles downgradient of the facility.
- Previous studies that analyzed trends and fingerprinting indicate that increase in TCE concentrations at well OW-4, OW-6, OW-16, and OW-17 in the northeastern part of the plume is likely due to an off-site source.

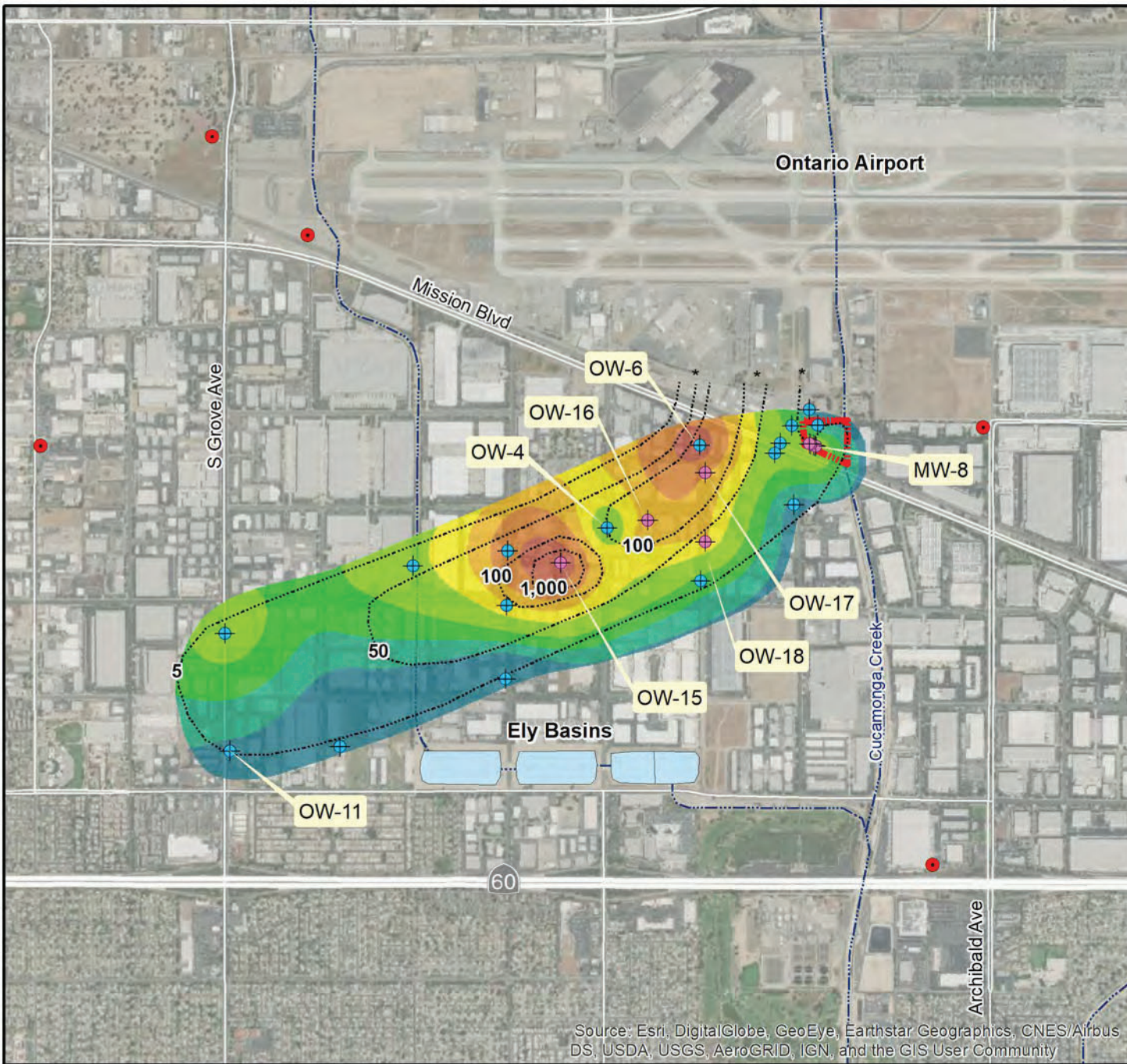
GE will continue to monitor groundwater quality pursuant to the Regional Board Clean-up Status of *Open – Verification Monitoring*. The third quarter 2020 monitoring event was performed in July 2020, and GE will submit its monitoring report to the Regional Board around October 2020.

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<sup>17</sup> Wood Environmental & Infrastructure Solutions, Inc. (2020). *Second Quarter 2020 Groundwater Monitoring Report* GE Engine Services Test Cell Facility. Prepared for General Electric Company. July 9, 2020.

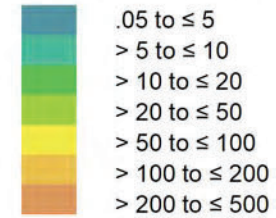






Maximum TCE Concentration (µg/l)  
July 2013 to June 2018

(Delineated by Watermaster in the  
2018 State of the Basin Report)



Contours of TCE Concentration (µg/l)  
in the shallow zone delineated by  
Wood Consultants in 2020 Quarter 2  
Groundwater Monitoring Report

GE Test Cell Property Boundary

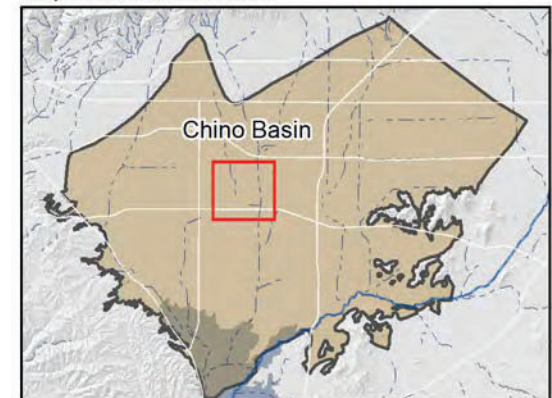
General Electric Monitoring Wells\*

- Single Casing
- Multi-Depth Cluster

Active/Inactive Potable Municipal  
Water Supply Wells

Streams & Flood Control Channels

Note: Wells are labeled by well name if mentioned in the Report  
\* A study in TCE trends and VOC fingerprinting indicates that  
increases in TCE concentrations in the shallow aquifer zone are  
likely due to an off-site source.

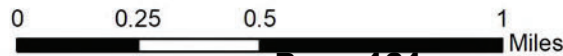


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus  
DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared by:



Author: SO  
Date: 9/29/2020  
Name: 20200929\_GETestPlume\_Status\_Ex1







# ANNUAL PLUME STATUS REPORT

## GENERAL ELECTRIC FLATIRON PLUME

October 2020

### Contaminants

The primary contaminant is trichloroethene (TCE). The maximum contaminant level (MCL) for TCE is 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 2015 to June 2020) was 22,000 µg/l, measured at well MW-21 in April 2020; 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 concentration for these contaminants are summarized in the table below.

Contaminant	MCL (µg/L)	Max Concentration (µg/L)	Sample Date	Well
PCE	5	4,300	April, 2020	MW-21
Total Dissolved Chromium	50	1,540	August, 2017	MW-23A
Hexavalent Chromium	Not Established	1,700	August, 2017	MW-23A

### 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 old GE Flatiron Facility, formerly located at 234 East Main Street. The Chino Basin Watermaster (Watermaster) last updated its delineation of the extent of the plume in the *2018 State of the Basin Report*.<sup>1</sup> This characterization is based on the five-year maximum TCE concentration measured between July 2013 to June 2018. 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 2018 and the most recent delineation of the plume prepared by GE in 2016.<sup>2</sup> 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.

<sup>1</sup> Wildermuth Environmental, Inc. (2018). *Optimum Basin Management Program – 2018 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2018.

<sup>2</sup> 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.



## 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 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 Investigation 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<sup>3, 4, 5, 6</sup> 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 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 containments 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

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

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

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

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



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 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.<sup>7</sup> 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.

Due to Watermaster and the IEUA’s increased use of the Ely Basins for storm, recycled, and imported water recharge, eventually, capacity for GE’s discharge there became insufficient. 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.<sup>8</sup> 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.<sup>9</sup> 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 actions.<sup>10</sup> 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.

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

<sup>8</sup> 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.

<sup>9</sup> 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.

<sup>10</sup> 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.



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.<sup>11</sup> 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.<sup>12</sup> The first sampling event at well cluster MW-20 in July 2017 indicted 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. High concentrations of PCE, TCE, total dissolved chromium, and hexavalent chromium have since been detected at several of these wells.

### 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. First, pumped groundwater is 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 µgl. Currently, three injection wells (IW-01, IW-02, and IW-03) are used to reinject 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 June 2020, EW-01 and EW-02 have extracted about 14,711 and 4,709 acre-feet of groundwater, respectively. Collectively, the treatment system has removed 11,938 pounds of TCE and 4,073 pounds of chromium.<sup>13</sup>

*Soil.* In 2004, GE began operating a soil vapor extraction system, consisting of seven soil vapor extraction wells: six located onsite and one located across Sultana Avenue, directly east of the

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<sup>11</sup> 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.

<sup>12</sup> 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.

<sup>13</sup> Wood Environment & Infrastructure Solutions, Inc. (2020). *Second Semiannual 2020 Groundwater Monitoring and Remediation Report.* Prepared for General Electric Company. July 24, 2020.



site. This system, which extracts VOC impacted vapors from the shallow soils, had removed a total of 47,496 pounds of VOCs as of June 2020.<sup>14</sup> On June 21, 2018 GE submitted its *Work Plan for Interim Measures – Phase I Expansion*<sup>15</sup> to the Regional Board for an expansion of the soil vapor extraction system.

### Monitoring and Reporting

There are two interlinked monitoring and reporting programs for the GE Flatiron site: one for groundwater and one for the remediation system. 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 groundwater monitoring program includes measuring groundwater levels and collecting groundwater-quality samples for chemical analyses from onsite wells at a quarterly frequency. Currently, depth to groundwater is measured at 31 wells and three piezometers every quarter. Groundwater-quality samples are collected from 31 monitoring wells and piezometers, although the number of wells sampled each quarter varies based on the specific quarter's monitoring plan. Water-quality samples are analyzed for dissolved metals, VOCs, and general minerals. Reports summarizing the results of the GE Flatiron monitoring and remediation efforts are published semiannually in January and July.

The remediation system monitoring program consists of the operations and maintenance activities performed in conjunction with the entire system. At a minimum, monthly sampling and analysis of the combined treatment plant influent from EW-01 and EW-02 and treated effluent is performed pursuant to WDR Order No. R8-2011-0019. In addition to the semiannual summaries included in the groundwater monitoring reports, treatment system monitoring results are reported monthly to the Regional Board.

The semiannual and monthly reports, and other relevant documents/data, can be found on the Regional Board's GeoTracker website.<sup>16</sup>

### Recent Activity

The six new monitoring well clusters (13 wells at MW-19 through MW-24) installed during 2016 and 2017 continue to be monitored quarterly for groundwater quality. The results show that TCE is consistently present at concentrations above the MCL in at least one well casing in each of the six clusters. In 2019 and 2020, the highest concentrations of PCE, TCE, total dissolved chromium, and hexavalent chromium associated with the plume were detected at the new onsite well clusters (MW-21 through MW-24). As shown in Watermaster's State of the Basin Report, the extent of the TCE plume is larger than originally understood in 2016. The most recent groundwater monitoring report prepared by GE was submitted to the Regional Board on July 24,

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<sup>14</sup> Wood Environment & Infrastructure Solutions, Inc. (2020). *Second Quarter 2020 Soil Vapor Extraction System Operation, Maintenance, and Monitoring Status Report*. Prepared for General Electric Company. July 16, 2020.

<sup>15</sup> Wood Environment & Infrastructure Solutions, Inc. (2018). *Work Plan for Interim Measures – Phase I Expansion*. June 21, 2018.

<sup>16</sup> [https://geotracker.waterboards.ca.gov/profile\\_report?global\\_id=SL0607132486](https://geotracker.waterboards.ca.gov/profile_report?global_id=SL0607132486)



2020.<sup>17</sup> This report summarizes groundwater monitoring at the 31 wells and three piezometers and the remediation activities performed between January 1 and June 30, 2020. The following describes the key findings presented in the report:

- Groundwater elevations increased about 1.5 feet over the reporting period, and groundwater flow continues to be towards the south-southwest.
- TCE, PCE, total dissolved chromium, and hexavalent chromium concentrations in the plume monitoring wells remain stable and are consistent with historical values, with the exception of concentrations in well MW-21. PCE and TCE concentrations in well MW-21 were the historical highs this reporting period.
- The highest concentrations of TCE, PCE, total dissolved chromium, and hexavalent chromium detected at a well were: 22,000 µg/l (MW-21), 4,300 µg/l (MW-22A), 1,1060 µg/l (MW-23A), and 1,200 µg/l (MW-23A), respectively.
- During this reporting period the San Bernardino County Flood Control (SBCFCD) permitted temporary discharge of treated groundwater to the Ely Basins during injection well maintenance. Weekly discharge reports are provided to the SBCFCD and the Inland Empire Utilities Agency (IEUA) of this discharge. There was a total of 131 acre-feet of treated water discharge to Ely Basin during this reporting period. Discharge of the treated water is planned to return to the injection wells in the second half of 2020.
- The extraction wells have been effective at meeting remedial action objectives, and discharges to the injection wells and Ely Basins have been effective in returning treated groundwater to the upper aquifer of the Chino Basin

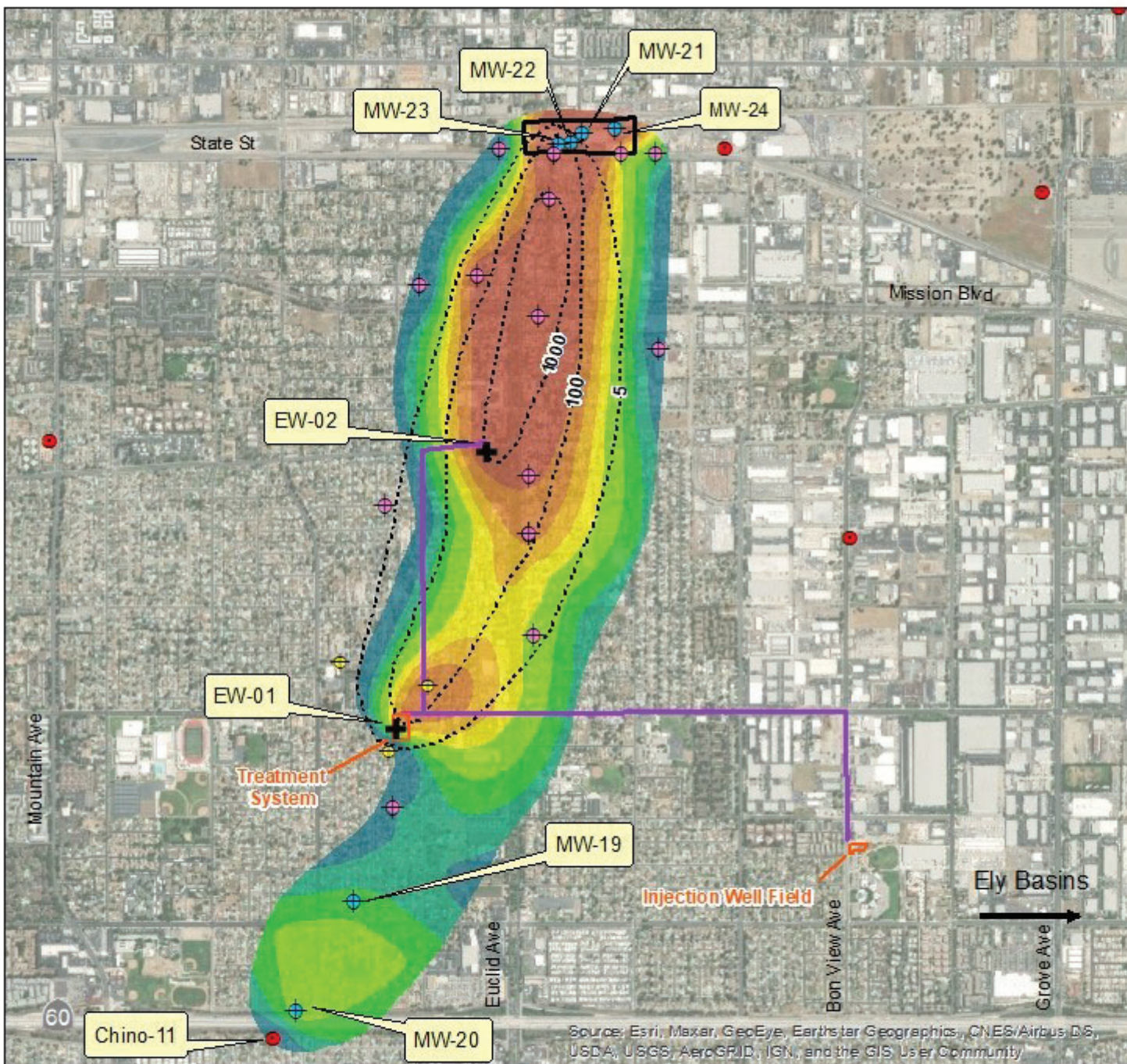
GE will continue monitoring at the Flatiron Facility pursuant to the Regional Board Cleanup Status of *Open – Assessment & Interim Remedial Action*. Groundwater monitoring activities are scheduled for July and October 2020.

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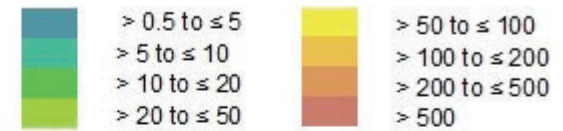
<sup>17</sup> Wood Environment & Infrastructure Solutions, Inc. (2020). *First Half 2020 Groundwater Monitoring and Remediation Report*. Prepared for General Electric Company. July 24, 2020.







Maximum TCE Concentration (µg/l)  
July 2013 to June 2018



MCL = 5 µg/l

(Delineated by Watermaster in the 2018 State of the Basin Report)

⋯ Contours of TCE Concentration (µg/l)  
(Delineated by GE in the 2016 Conceptual Site Model)

⊕ GE Extraction Wells

GE Monitoring Wells (some locations have multiple wells at various depths) \*

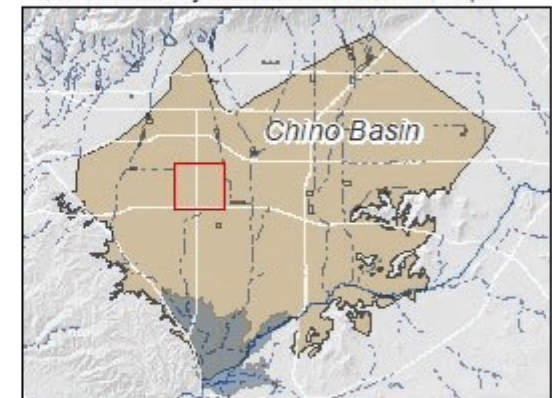
- ⊕ Constructed Between 2016 - 2017
- ⊕ Constructed Prior to 2016
- ⊕ GE Piezometers

● Active/Inactive Potable Municipal Water Supply Wells

▭ GE Flatiron Property Boundary

— Conveyance Pipeline

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

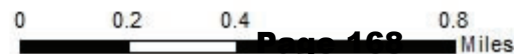


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared by:



Author: VW  
Date: 10/1/2020  
Name: 20201001\_GEFatiron\_PlumeStatus



Plume Status Report  
October 2020

**General Electric Flatiron TCE Plume**





## ANNUAL PLUME STATUS REPORT

### MILLIKEN LANDFILL PLUME

October 2020

#### Contaminants

The primary contaminant is trichloroethene (TCE). The 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 2015 to June 2020) is 14  $\mu\text{g/l}$  (measured at well M-8B in July 2015). 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) updated its characterization of the extent of the TCE plume, based on the five-year maximum TCE concentration measured between July 2013 to June 2018, in the *2018 State of the Basin Report*.<sup>1</sup> The extent of the plume with TCE concentrations equal to or greater than 0.5  $\mu\text{g/l}$  is about 2,600 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<sup>2</sup> of total VOCs.

#### 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 Regional Board issued CAO No. 91-92 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

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<sup>1</sup> Wildermuth Environmental Inc. (2019). *Chino Basin Optimum Basin Management Program, 2018 State of the Basin Report*. Prepared for Chino Basin Watermaster. June 2019.

<sup>2</sup> 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.



potentially cause the discharge of pollutants to groundwater. In 1994, the CAO was rescinded when the landfills achieved compliance, and concurrently, Order No. 94-17 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<sup>3</sup> for the MSL for failure to maintain the drainage and erosion control systems. In October 1999, the Regional Board approved the *Final Closure and Post Closure Maintenance Plan*<sup>4</sup> for the MSL. 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 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

- 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 as specified by Order No. R8-2020-0033.
- 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

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<sup>3</sup> 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.

<sup>4</sup> Project Navigator, Ltd. (1999). *Final Postclosure Maintenance Plan, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino, Solid Waste System Division. September 1999.



and reporting requirements. Orders Nos. 93-57, 94-17, 96-4, and 98-99 are combined WDRs and M&RPs for all landfills in the Santa Ana Region.

- Cleanup and Abatement (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<sup>5</sup> because the pump-and-treat system is no longer operable.

### Regulatory and Monitoring History

On February 26, 1981, the Regional Board adopted WDR No. 81-3 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.<sup>6</sup> The initial monitoring results indicated that there were multiple contaminants in the groundwater underlying and adjacent to the facility 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<sup>7</sup> 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. During the implementation of the Phase I EMP, the County installed ten new monitoring wells: eight wells were installed downgradient from the facility, and two wells were installed upgradient from the facility.<sup>8</sup> Contaminants including TCE and PCE were detected in the new downgradient monitoring wells. Subsequent to the implementation of the Phase I EMP, the County installed three additional monitoring wells along the southern boundary of the property, one well upgradient, and six wells downgradient to further characterize the lateral and vertical extent of the TCE plume.

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<sup>5</sup> Regional Board. (2019). Letter from Cindy Li to the County – *Termination of Regulatory Coverage Under Waste Discharge Requirements, Order No. R8-2002-0033, Groundwater Cleanup Project for Milliken Sanitary Landfill, San Bernardino County*. May 9, 2019.

<sup>6</sup> 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 1989.

<sup>7</sup> 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.

<sup>8</sup> Converse Consultants Inland Empire. (1994). *Groundwater Contamination Evaluation, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino Solid Waste Management Division.



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.<sup>9</sup> Under the direction of the Regional Board, the County completed the Phase II EMP<sup>10</sup> and an Engineering Feasibility Study<sup>11</sup> in 1998. Groundwater flow modeling was also performed to support the selection of an appropriate remediation strategy.<sup>12</sup> 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 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 of the 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<sup>13</sup> for the MSL (2013 Feasibility Study). 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 submitted an Evaluation of Off-Site Impacts to Groundwater at the MSL<sup>14</sup> to the Regional Board to address their request to update the 1998 groundwater-flow model to incorporate the non-operating groundwater pump-and-treat system and use updated monitoring data, and the soil-pore gas sampling at the dry extraction wells for the pump-and-treat system. Based on the results of the updated modeling and monitoring, the County proposed the installation of a new downgradient monitoring well (see 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.<sup>15</sup> Since, the County has conducted two pilot studies on a Soil Vapor

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<sup>9</sup> Regional Board. (1996). *Letter from Dixie B. Lass – Milliken Landfill – Addendum to Phase II Workplan, Contaminant Plume Investigation*. February 6, 1996.

<sup>10</sup> 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.

<sup>11</sup> Geo-Logic Associates. (1998). *Engineering Feasibility Study, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino, Solid Waste System Division. May 1998.

<sup>12</sup> Geo-Logic Associates. (1999). *Groundwater Flow Model, Milliken Sanitary Landfill*. Prepared for the County of San Bernardino, Solid Waste System Division. February 1999.

<sup>13</sup> 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.

<sup>14</sup> Geo-Logic. (2018). *Evaluation of Off-Site Impacts to Groundwater at the Milliken Sanitary Landfill County of San Bernardino, California*. Prepared for County of San Bernardino Solid Waste Management Division. March 2018.

<sup>15</sup> 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.



Extraction (SVE) system. The most recent study was completed in late-2019 and is described below in Recent Activity section.

The County and PVN Milliken, LLC submitted a revised Final Post-Closure Maintenance Plan<sup>16</sup> in November 2016 and a land use plan<sup>17</sup> in December 2016 to modify the MSL’s end use plan to include the solar plant on the landfill surface. The Regional Board approved the plans in January 2017.<sup>18</sup> 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. The “trigger point” corrective action plan includes:

- when the total VOC load<sup>19</sup> in samples from downgradient monitoring well M-8A or M-8B exceeds the model-predicted VOC concentrations for two consecutive quarters, improvements to the existing landfill gas extraction system would be implemented. Once the improvements were implemented, the following trigger would require additional mitigation measures to be implemented.
- when a “statistically significant” increasing<sup>20</sup> VOC concentration trend is identified in monitoring well M-8A or M-8B over a one-year period after the landfill gas improvements have been implemented.

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<sup>16</sup> 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.

<sup>17</sup> Project Navigator, Ltd. (2016). *Land Use Plan for the Milliken Sanitary Landfill 36-AA-0054 Ontario, California, County of San Bernardino*. Prepared on behalf of PVN Milliken, LLC for the County of San Bernardino Department of Public Works – Solid Waste Management Division. December 2016.

<sup>18</sup> 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.

<sup>19</sup> Total VOC load equals the sum of all detected VOC concentrations in a given sample expressed in µg/l.

<sup>20</sup> 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.<sup>21</sup> 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 1998 model-predicted VOC concentrations in wells at the center of the plume, an additional off-site 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.

### Monitoring and Reporting

The County conducts groundwater, surface water, and soil-pore gas monitoring at the MSL pursuant to a Corrective Action Program to address impacts to groundwater. The monitoring program consists of 26 groundwater monitoring wells, one piezometer, three surface water monitoring stations, and five soil-pore gas monitoring probes, and one landfill gas condensate station. Groundwater quality and groundwater levels are collected quarterly at the monitoring wells that are not dry. Surface-water quality sampling is conducted quarterly if the sites 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 concentration that is greater than five percent in volume. Landfill gas condensate sampling is conducted annually in the fourth quarter. 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 off-site extent of the plume. VOC concentrations at monitoring well M-8B (and M-8A if not dry) are used to determine if there are triggers that would necessitate further corrective actions based on the defined “trigger point” concentrations established from model-predicted concentrations from the 1999 groundwater modeling performed to evaluate the pump-and-treat system. Exhibit 1 shows the locations of wells M-8A and M-8B. The following table shows the model-predicted VOC concentrations over time:

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<sup>21</sup> Regional Board. (2013). *Identification of Triggers for Additional Corrective Action System for the Milliken Landfill, San Bernardino County*. Letter dated May 15, 2013.



Trigger Points for Additional Corrective Action Measures (µg/l)					
Year	Total VOC Load at M-8A or M-8B*	Year	Total VOC Load at M-8A or M-8B*	Year	Total VOC Load at M-8A or M-8B*
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
2024	124	2038	65	2052	12
2025	124	2039	60	2053	11
2026	123	2040	55	2054	10

\*Total VOC load equals the sum of all detected VOC concentrations in a given sample (µg/l).

### Recent Activity

From October 17, 2019 to December 18, 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 of the 13 dry groundwater extraction wells installed along the downgradient edge of the MSL 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, 2020<sup>22</sup> 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. The County requested approval for construction and permitting of a full-scale SVE system that could become operational within six months of approval to move forward by the Regional Board.

The County’s most recent monitoring event occurred in April 2020, and the results were reported in the second quarter 2020 monitoring report submitted to the Regional Board in July 2020.<sup>23</sup> During the sampling event, groundwater levels were measured at eight wells and three piezometers, and groundwater-quality samples were collected at seven wells. Nine monitoring

<sup>22</sup> 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.

<sup>23</sup> Geosyntec (2020). *Second Quarter 2020 Monitoring Report Water Quality Monitoring Program Milliken Sanitary Landfill Ontario, California*. July 30, 2020.



wells, seven piezometers, and all three surface water monitoring stations were dry. No methane was detected in the soil-pore gas samples. Exhibit 1 shows the monitoring wells that were sampled during the second quarter of 2020, and the wells that were dry. The following section summarizes the results from the April 2020 quarterly monitoring event:

- The TCE concentrations at most of active monitoring wells (except for M-8B) were below the MCL.
- Monitoring well M-8A was dry, and the total VOC load for monitoring well M-8B was 17.25 µgl, which is below the 2020 predicted load threshold of 128 µgl.
- 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, and there is a decreasing TCE trend in M-8B. Ongoing source control and routine monitoring and reporting will continue.

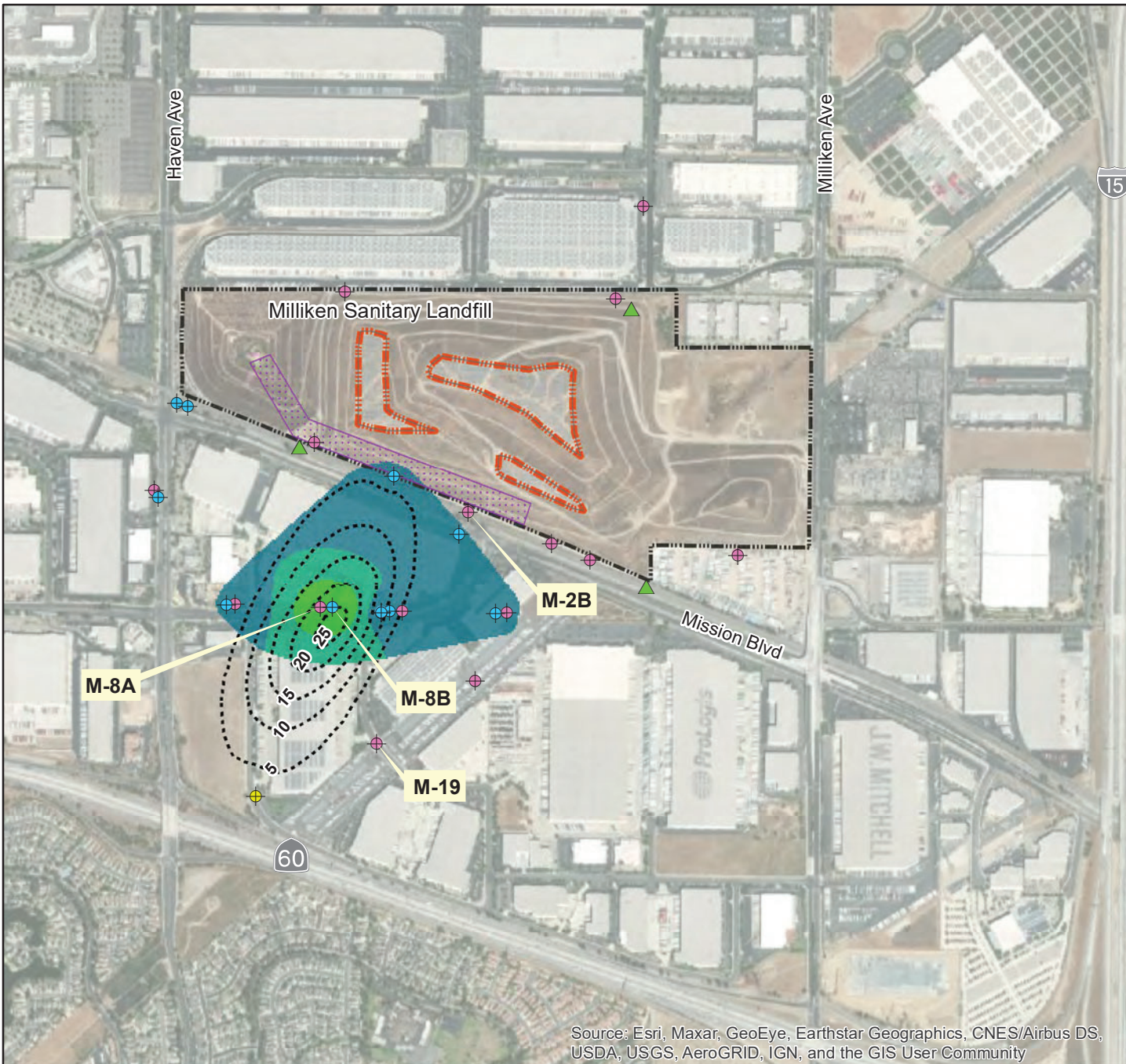
On July 21, 2020, the County was issued an Investigative Order by the Regional Board pursuant to California Water Code Section 13267<sup>24</sup> to monitor for per- and polyfluoroalkyl substances (PFAS) at the MSL. The Regional Board issued the Investigative Order to MSL and other landfills in the Santa Ana Region after finding they met the following criteria: (1) the landfill was operated during a period when PFAS were manufactured and likely disposed of at the landfill; (2) there were no leachate collection and removal systems installed at the landfill facilities, and one or more releases of organic compounds in the groundwater have been detected; (3) the MSL and other landfills are located near the Santa Ana River and its tributaries, which are important sources of groundwater recharge in the region. Pursuant to the Investigative Order, the Regional Board requires the County to (a) prepare a workplan for a one-time sampling event for PFAS for groundwater, surface water, gas condensate, and leachate at the MSL within 60 days of the receiving the order; (b) upload analytical results from the PFAS sampling events to the GeoTracker portal within 30 days of receiving the laboratory report; and (c) submit a final sampling and analysis report within 90 days of the Regional Board’s approval of the work plan.

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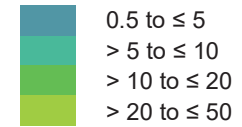
<sup>24</sup> Regional Board. (2020). *Water Code Section 13267 Order No. R8-2020-0033, For the Determination of the Presence of Per- and Polyfluoroalkyl Substances (PFAS) at Closed Municipal Solid Waste Landfills Within the Santa Ana Region, San Bernardino County*. July 21, 2020.







Maximum TCE Concentration (µg/l)  
July 2013 to June 2018



(Delineated by Watermaster in the  
2018 State of the Basin Report)

Contours of Total  
VOCs Concentrations (µg/l) as  
delineated by the County in 2015

County of San Bernardino Monitoring Wells

- Sampled in 2020\*
- Dry in 2020\*
- Proposed New Well Location
- Surface Water Monitoring Station (Dry)

Extent of Solar Facility - Installed in 2017

Milliken Sanitary Landfill  
Property Boundary

2019 SVE Pilot Test Area Using the  
13 Dry Extraction Wells

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



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

Prepared by:



Author: KC  
Date: 10/1/2020  
Name: 20200921\_MillikenPlume\_Status\_Ex1





# ANNUAL PLUME STATUS REPORT

## STRINGFELLOW PLUME

October 2020

### Contaminants

The primary contaminants at the Stringfellow site are perchlorate, trichloroethene (TCE), and chloroform. The maximum contaminant levels (MCL) for perchlorate and TCE are 6.0 micrograms per liter (µg/l) and 5.0 µg/l, respectively. Chloroform does not have an MCL but is assessed to a cleanup level of 6.0 µg/l for the Stringfellow site.<sup>1</sup> The five-year maximum contaminant concentrations detected in groundwater within the various zones of the Stringfellow site are shown in the table below.

Contaminant	MCL or Cleanup Level (µg/l)	Five-Year Maximum Concentration - July 2015 – June 2020 (µg/l)	
		Zones 1-3 (Within Pyrite Canyon)	Zone 4 (Downgradient of Pyrite Canyon)
Perchlorate	6.0	2,500	48
TCE	5.0	330,000	11
chloroform	6.0	11,000	21

Additional contaminants at the site include other volatile organic compounds (VOCs), semi-volatile organic compounds (SOCs), pesticides, para-chlorobenzene sulfonic acid, n-nitrosodimethylamine, and various heavy metals. And, the groundwater beneath the former waste evaporation ponds has a pH of <4.0.

### Location

The former Stringfellow Landfill site is located in Pyrite Canyon in the Jurupa Mountains about one mile north of the community of Glen Avon in the Jurupa Valley in the eastern portion of the Chino Basin. Pyrite Canyon overlies Holocene and Pleistocene unconsolidated alluvium and alluvial fan deposits and is bound by the granodiorite and metasedimentary units of the Jurupa Mountains.<sup>2</sup> The site is geographically divided into four groundwater zones in consideration of various operational and remediation activities. These zones, shown in Exhibit 1, include:

- *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

<sup>1</sup> 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 State Environmental Protection Agency

<sup>2</sup> Dibblee, T.W., and J.A. Minch. (2004). *Geologic map of the Riverside West/south 1/2 of Fontana quadrangles, San Bernardino and Riverside County, California*: Dibblee Geological Foundation, Dibblee Foundation Map DF-128, scale 1:24,000



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.

Exhibit 1 shows the general extent of the TCE plume originating from the 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 *2018 State of the Basin Report*.<sup>3</sup> The plume is approximately 2.5 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 6.0 µg/l, as delineated in 2018 for the *Final Zone 4 Monitored Natural Attenuation Technical Memorandum*.<sup>4</sup> The perchlorate plume extends from Zone 1 approximately 4.5 miles south/southwest to Zone 4. The width of the perchlorate plume varies between approximately 0.1 and 0.6 miles wide. There are several smaller perchlorate plumes to the east and west of the main plume as shown in Exhibit 1.

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.

### Site History

Stringfellow Quarry Company Inc. operated the 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).<sup>5</sup> 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

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<sup>3</sup> Wildermuth Environmental, Inc. (2019). *Optimum Basin Management Program - 2018 State of the Basin Report*. Prepared for the Chino Basin Watermaster. June 2019.

<sup>4</sup> Kleinfelder. (2018). *Final Zone 4 Monitored Natural Attenuation Technical Memorandum, Stringfellow Superfund Site; Jurupa Valley, California*. Prepared for California Department of Toxic Substances Control. September 28, 2018.

<sup>5</sup> U.S. Army Corps of Engineers. (2016). *Fifth Five-Year Review Report for Stringfellow Superfund Site Riverside County, California*. September 2016.





overflow resulting in the discharge of contaminated liquids to Pyrite Creek. And in 1978, heavy rains threatened to cause the ponds to overflow and the California Regional Water Quality Control Board, Santa Ana Region (Regional Board) authorized an 800,000-gallon release from the ponds to prevent a larger uncontrolled release caused by the heavy rains.

After site closure, approximately 6.5 million gallons of liquid wastes were removed from the facility between 1975 and 1980. Following the removal activities, federal involvement was initiated in 1980 upon inspection by the United States Environmental Protection Agency (USEPA) and the United States Coast Guard (USCG) who 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 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 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 (<https://www.envirostor.dtsc.ca.gov/public/>).

### Regulatory Orders

From 1983 to 1990, the USEPA has adopted four interim Record of Decisions (ROD) 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).<sup>6</sup> 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).<sup>7</sup> The second ROD included the construction of the Pre-Treatment Plant in the mid-canyon area located within Zone 2.

ROD 3 (USEPA 1987).<sup>8</sup> 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).<sup>9</sup> 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

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<sup>6</sup> United States Environmental Protection Agency. (1983). *EPA Superfund, Record of Decision: Stringfellow Acid Pits Site. USEPA ID: CAT080012826, OU01, Mira Loma, California*. July 1983.

<sup>7</sup> United States Environmental Protection Agency. (USEPA) (1984). *Record of Decision, Stringfellow Acid Pits, Summary of Remedial Alternative Selection*. July 1984.

<sup>8</sup> United States Environmental Protection Agency. (USEPA) (1987). *Record of Decision: Stringfellow Acid Pits, Summary of Remedial Alternative Selection (Early Implementation Action)*. June 1987.

<sup>9</sup> United States Environmental Protection Agency. (USEPA) (1990). *Record of Decision: Stringfellow Hazardous Waste Site*. September 1990.



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 expected to be published in 2021.

### Remedial Actions

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 four treatment plants operated by the DTSC on behalf of the State Of California. The treatment plants include the Pre-Treatment Plant, the Pyrite Canyon Treatment Facility, the Lower Canyon Treatment Facility, and the Community Wellhead Treatment System. Exhibit 1 shows the locations of the four treatment plants.

Pre-Treatment Plant/Pyrite Canyon Treatment Facility. These facilities treat contaminated groundwater from extraction wells in Zones 2, 3, and 4. The Pre-Treatment Plant is located in Zone 2 and began operating in 1985 pursuant to the second ROD. It is anticipated that the plant will be fully decommissioned and demolished by 2020. 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 constituents treated include low pH, pesticides, metals, and VOCs. The Pyrite Canyon Treatment Facility is located in Zone 1B and has the potential to treat a wider range of contaminants than the Pre-Treatment Plant. 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.

Lower Canyon Treatment Facility. This facility treats contaminated groundwater pumped from extraction wells in Zones 3 and 4 for VOCs with an average treatment rate of about 90,700 gallons per day (gpd) (102 acre-feet per year [afy]). Treated effluent from the Lower Canyon Treatment Facility is piped to and stored at the Pre-Treatment Plant and subsequently released to the Inland Empire Brine Line. Currently, the facility is non-operational but can be re-activated if needed. As of 2017, groundwater extracted from Zones 3 and 4 has been piped to the Pre-Treatment Plant where it is treated for VOCs and released to the Inland Empire Brine Line.

Community Wellhead Treatment System. This plant treats contaminated groundwater pumped from two wells in Zone 4 for VOCs and perchlorate. Treated effluent is discharged to Pyrite Creek



under an NPDES permit and can also be used for irrigation by local residents. The plant treats an average of about 15,000 gpd (17 afy).

In addition to the remediation of contaminated groundwater originating from the Stringfellow site, the USEPA has also initiated a groundwater and soil investigation to develop remedial actions for sources of perchlorate that do not originate from the Stringfellow site. The USEPA has investigated two areas, Areas 1 and 2 (see Exhibit 1), to identify additional sources of perchlorate contamination in 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 a future feasibility study to support the selection of a remedial action.<sup>10,11</sup>

### Monitoring and Reporting

Since 1986, the USEPA and DTSC have installed close to 800 groundwater monitoring and extraction wells. Currently there are more than 550 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*.<sup>12</sup> The DTSC performs routine monitoring either annually or quarterly to evaluate groundwater quality and the effectiveness of the groundwater pump-and-treat system, and reports its findings in quarterly monitoring reports, annual monitoring reports, and annual groundwater remedy effectiveness evaluation reports. In 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 the table below based on the most current Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report.<sup>13</sup>

Zone or Area	Number of Wells	Well Type				
		Monitoring Well	Extraction Well	Piezometer	Extraction Sump	Water Supply Well
1A	133	86	41	0	6	-
1B	66	45	10	11	-	-
2	35	27	8	0	-	-
3	131	119	12	0	-	-
4	187	144	4	36	-	3

<sup>10</sup> CH2M. (2017). *Draft Final Remedial Investigation Report, EPA Area 1, Stringfellow Superfund Site, Jurupa Valley, California*. Prepared for USEPA. April 2017.

<sup>11</sup> Ramboll US Corporation. (2018). *EPA Area 2 Remedial Investigation Report, Stringfellow Superfund Site*. Prepared for California Department of Toxic Substances Control. October 19, 2018.

<sup>12</sup> Kleinfelder. (2016) *Final Sitewide and Surface Water Monitoring Plan and Sampling and Analysis Plan Stringfellow Superfund Site, Jurupa Valley California* prepared for the DTSC, July 19, 2016.

<sup>13</sup> Kleinfelder. (2020). *2018 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report, Stringfellow Superfund Site*. Prepared for California Department of Toxic Substances Control. April 23, 2020.



USEPA Area 1/2	36	36	0	0	-	-
<b>Total</b>	<b>588</b>	<b>457</b>	<b>75</b>	<b>47</b>	<b>6</b>	<b>3</b>

The DTSC initiated surface water sampling in 2005 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.<sup>14</sup>

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 following is a summary of key activities that have occurred since September 2019:

- On October 21, 2019, the DTSC submitted a proposal<sup>15</sup> to the USEPA to install a new monitoring well in Zone 4 for additional monitoring of perchlorate and TCE concentrations in groundwater in weathered bedrock east of two wells that were constructed in September 2019.
- The *2019 Annual Groundwater Sampling and Analysis Report* was completed by the DTSC and submitted to the USEPA in January 2020. From April 17 through May 24, 2019, groundwater levels and groundwater-quality samples were collected from 332 wells piezometers.<sup>16</sup> Groundwater samples and level measurements were unable to be collected at 40 of the scheduled wells due to various reasons.
- On March 31, 2020 the DTSC submitted their most recent quarterly monitoring report<sup>17</sup> for the quarter 3 2019 monitoring event. Twenty five newly constructed monitoring wells in Zone 1B, 3, and 4 were sampled in September 2019.
- Also on March 31, 2020, the DTSC submitted a report on the results of a non-routine surface water monitoring event performed on October 9, 2019 at a pond at the former Universal Propulsion Company facility located southeast of Stringfellow Site in Zone 2.<sup>18</sup>

<sup>14</sup> Geo-Logic Associates. (2016). *Final Surface Water Sampling and Analysis Plan, Stringfellow Superfund Site*. Prepared for California Department of Toxic Substances Control. July 2016.

<sup>15</sup> DTSC (2019). *Proposal for Installation of Monitoring Well FC-749D Stringfellow Superfund Site Jurupa Valley, California*. Letter to the USEPA dated October 21, 2019.

<sup>16</sup> Geo-Logic Associates. (2020). *2019 Annual Groundwater Sampling and Analysis Report, Stringfellow Superfund Site*. January 2020.

<sup>17</sup> Geo-Logic Associates. (2020). *September 2019 Groundwater Sampling and Analysis Report Stringfellow Superfund Site Riverside County, California*. Submitted to USEPA. March 21, 2020.

<sup>18</sup> Geo-Logic Associates. (2020) *October 2019 UP-POND Sampling and Analysis Report Stringfellow Superfund Site Riverside County, California*. Submitted to USEPA. March 21, 2020.



The report consist of a tabular summary of the results that will be used for analysis and interpretations in subsequent reports. In addition to the standard contaminants monitored for at Stringfellow, the DTSC requested the sampling of per- and polyfluoroalkyl substances (PFAS). There were nine different PFAS compounds detected in the sample from the pond.

- On April 6, 2020, the USEPA completed a remedial investigation report<sup>19</sup> for the EPA Area 2. The main purpose of the investigation is to identify potential sources of perchlorate and other contaminants of concern in the EPA Areas 2 that may have contributed to the contamination in Pyrite Canyon.
- The *Final 2018 Annual Groundwater Monitoring and Remedy Effectiveness Evaluation Report* was submitted by the DTSC on April 7, 2020 and concludes that the remedial actions have been effective in reducing contamination by removing a substantial mass of solutes. From 2009 to 2018, 1,396 pounds of TCE, 268 pounds of chloroform, and 160 pounds of perchlorate were removed from groundwater via the pump-and-treat system. In general contaminant concentrations in groundwater are decreasing across the site and the spatial extent of all contaminants of concern is similar to previous monitoring events. There is evidence that there may be additional sources of perchlorate contamination from the west and east sides of Pyrite Canyon (USEPA Areas 1 and 2) contributing to the contamination downgradient.
- The DTCS submitted two *Surface Water Sampling Results Reports* to the USEPA on July 13, 2020 to report the results of the surface water sampling during qualifying storm events on December 4 and December 23, 2019.<sup>20,21</sup> The maximum perchlorate concentration in surface water was collected from the same sampling site in Zone 3 during both sampling events and was about 9 µg/l.

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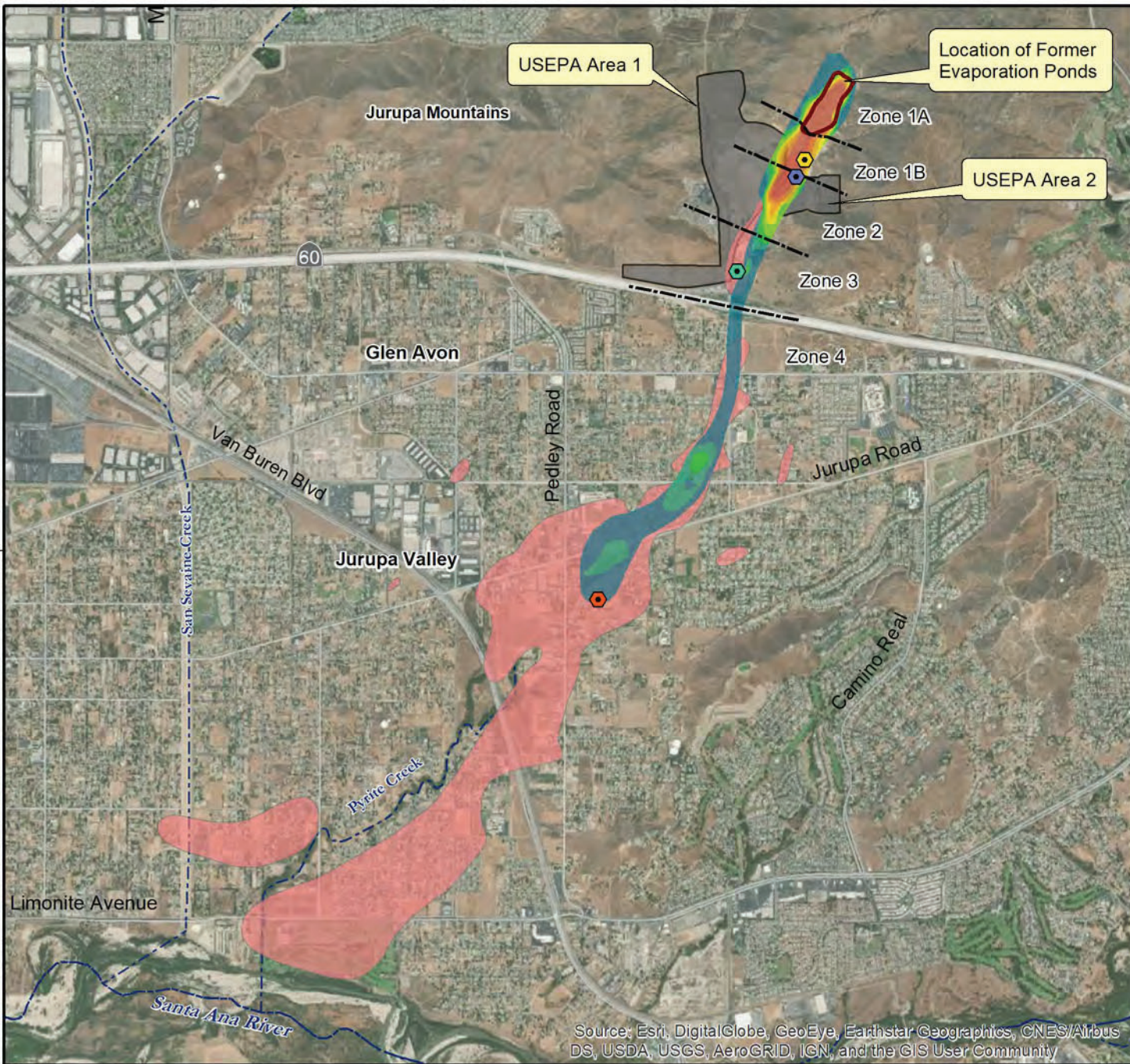
<sup>19</sup> Ramboll. (2020) EPA Area 2 Remedial Investigation Report *Stringfellow Superfund Site Riverside County, California*. Prepared for the DTSC. April 6, 2020.

<sup>20</sup> Geo-Logic Associates. (2020). *December 4, 2019 Surface Water Sampling Results, Stringfellow Superfund Site, Jurupa Valley, California*. July 13, 2020.

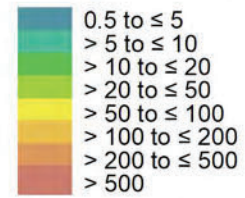
<sup>21</sup> Geo-Logic Associates. (2020). *December 23, 2019 Surface Water Sampling Results, Stringfellow Superfund Site, Jurupa Valley, California*. July 13, 2020.







Maximum TCE Concentration (µg/l)  
July 2013 - June 2018



(Delineated by Watermaster in the 2018 State of the Basin Report )

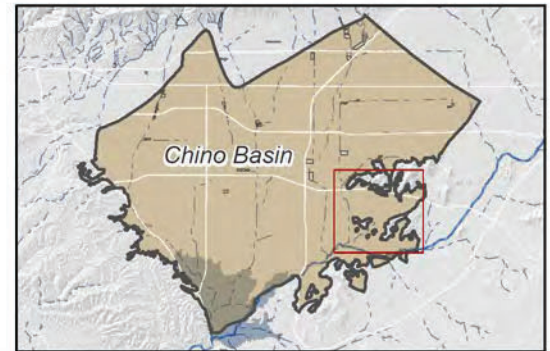
Extent of perchlorate plume ( ≥ 6 µg/l)

Delineated by Kleinfelder in the Final Zone 4 Monitored Natural Attenuation Technical Memorandum (2018)

**Groundwater Extraction and Treatment Facilities**

- Pyrite Canyon Treatment Facility
- Pre-Treatment Plant
- Lower Canyon Treatment Facility
- Community Wellhead Treatment System

Streams & Flood Control Channels

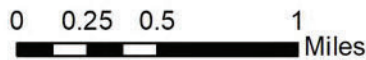


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Prepared by:



Author: LH  
Date: 9/30/2020  
Name: 20190918\_SFPlume\_Status





# CHINO BASIN WATERMASTER

## IV. INFORMATION

### 3. GROUND-LEVEL MONITORING COMMITTEE STATUS REPORT



## SEMI-ANNUAL STATUS REPORT

### GROUND-LEVEL MONITORING COMMITTEE

October 2020

This semi-annual status report describes the background of the Ground-Level Monitoring Program (GLMP), the main activities conducted for the GLMP and by the Ground-Level Monitoring Committee (GLMC) for the period April 2020 – September 2020, and the main activities planned for the period October 2020 – March 2021.

#### Background

Historically, the utilization of the Chino Basin has inadvertently resulted in land subsidence and ground fissuring. Pursuant to the OBMP Implementation Plan, the Chino Basin Watermaster (Watermaster) developed and implements the Chino Basin Subsidence Management Plan (Subsidence Management Plan). The objective of the Subsidence Management Plan is to minimize or abate the occurrence of land subsidence and ground fissuring.

The Subsidence Management Plan identifies four “Areas of Subsidence Concern” and the MZ-1 Managed Area in the western portion of the Chino Basin. Figure 1 shows the locations of these areas. These are areas where land subsidence and ground fissuring have historically occurred, or where the underlying hydrogeologic conditions make these areas susceptible to land subsidence and ground fissuring. In the MZ-1 Managed Area, Watermaster has conducted monitoring and testing programs, and has developed Management Criteria for the groundwater pumpers within the area to minimize or abate the future occurrence of land subsidence and ground fissuring. The Management Criteria consists of the following main elements:

- A list of pumping wells in the MZ-1 Managed Area that are subject to the Subsidence Management Plan.
- An index water level measured at Watermaster’s PA-7 piezometer at Ayala Park. The index water level is called the Guidance Level.
- A Watermaster recommendation that the well owners collectively manage their pumping so that the water level at the PA-7 piezometer remains above the Guidance Level.

The Subsidence Management Plan also calls for:

1. An ongoing monitoring and reporting program to verify the protective nature of the Subsidence Management Plan and identify new threats or occurrences of land subsidence.
2. A process to adjust the Subsidence Management Plan to minimize or abate land subsidence and ground fissuring.

Since the initial Subsidence Management Plan was adopted by the Watermaster in 2007, Watermaster has conducted the annual GLMP to implement the monitoring and reporting program in no. 1 above.

The main activities of the GLMP include:

- Setup and maintenance of monitoring facilities
- Monitoring and testing
- Data analysis and reporting
- Meetings of the GLMC

The main results and conclusions of the GLMP have been:

- Very little permanent land subsidence has occurred in the MZ-1 Managed Area, which indicates that subsidence is being successfully managed in this area.
- Land subsidence has been occurring in Northwest MZ-1. Of particular concern is that subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault and in other areas—the same pattern of differential subsidence that occurred in the MZ-1 Managed Area during the time of ground fissuring.

Based on these results, Watermaster determined that the Subsidence Management Plan needs to be updated to include a *Subsidence Management Plan for Northwest MZ-1* with the long-term objective to minimize or abate the occurrence of differential land subsidence. To assist in this update, the GLMP has been expanded to Northwest MZ-1. The Subsidence Management Plan was updated in 2015 to include the [Work Plan to Develop a Subsidence Management Plan for Northwest MZ-1](#) (Work Plan). The Work Plan includes eleven tasks that include investigations, construction of monitoring facilities, monitoring and testing programs, modeling, reporting, and preparation of a subsidence management plan for Northwest MZ-1.

## Activities Performed from April – September 2020

### Setup and Maintenance of Monitoring Facilities

- Performed monthly routine maintenance, data collection, and verification at the Ayala Park, Chino Creek, and Pomona Extensometer (PX) Facilities.

### *Northwest MZ-1 Investigation*

- The cable extensometer's mechanical components were installed in May 2020.
- All devices used to monitor piezometric (pressure transducers) and aquifer-system deformation (linear potentiometers and vibrating wireline transducers) and data loggers were installed between June and September 2020.
- Dead-band tests at each PX cable extensometer was conducted on July 1, 2020. Dead-band tests are essential to quantifying the frictional properties of an extensometer, characterize its overall performance, develop confidence in the reliability of the record.
- Continued the piezometric monitoring program at wells in Northwest MZ-1.

### Monitoring and Testing

- Performed quarterly collection, checking, and storing of piezometric and aquifer-system deformation data from the Ayala Park and Chino Creek Extensometer Facilities.

- Guida Surveying, Inc. completed the Spring 2020 ground-level surveys across specific areas in western Chino Basin (Northeast Area, Northwest MZ-1, and San Jose Fault Zone).
- Received seven Synthetic Aperture Radar interferograms from General Atomics (formerly Neva Ridge Technologies, Inc.) and processed the radar data to show vertical land surface altitude for the western Chino Basin between March 2011 and March 2020 and between March 2019 and March 2020.

#### Data Analysis and Reporting

- Completed and submitted the Draft *2019/20 Annual Report of the Ground-Level Monitoring Committee* to the GLMC on September 25, 2020.

#### Meetings of the Ground-Level Monitoring Committee

There was one GLMC meeting conducted during the reporting period on July 23, 2020. The meeting agenda included:

- Ground-Level Monitoring Program Update
- Development of a Subsidence Management Plan for Northwest MZ-1
- Scope and Schedule of the GLMC for FY 2020/21

#### Activities Planned for October 2020 – March 2021

##### Setup and Maintenance of Monitoring Facilities

- Perform monthly routine maintenance, data collection, and verification at the Ayala Park Extensometer, Chino Creek Extensometer, and Pomona Extensometer facilities.

##### Monitoring and Testing

- Perform quarterly collection, checking, and storing of piezometric and aquifer-system deformation data from the piezometers and extensometers at the Ayala Park Extensometer, Chino Creek Extensometer, and Pomona Extensometer facilities.

##### *Northwest MZ-1 Investigation*

- Continue monitoring piezometric levels and pumping at wells as part of the Northwest MZ-1 Monitoring and Testing Program.

Portions of Tasks 2 and 6 of the Work Plan are planned to continue and/or begin in FY 2020/21:

- Conduct one-year of passive monitoring of piezometric levels and pumping at Northwest MZ-1.
- Update the Northwest MZ-1 hydrogeologic conceptual model by constructing a one-dimensional compaction model at the Pomona Extensometer Facility.
- Update the hydrogeologic conceptual understanding of Northwest MZ-1, particularly for the parameters that affect aquifer-system deformation and land subsidence. The information generated in this task will form the basis for updating Watermaster's current groundwater model so it can simulate land subsidence and evaluate subsidence-management alternatives.



#### Data Analysis and Reporting

- Submit the draft report to the GLMC: *Summary of the Drilling, Construction, and Development Activities for the Pomona Extensometer Facility Piezometers, City of Pomona, California*. The draft report is anticipated to be published in December 2020.

#### Meetings of the Ground-Level Monitoring Committee

Two GLMC meetings are anticipated between October 2020 and March 2021. The meeting agenda items for each planned meeting will include:

- Review and discuss the recommended Scope and Budget of the Ground-Level Monitoring Committee for FY 2021/22.

