

CHINO BASIN WATERMASTER



NOTICE OF MEETING

Thursday, March 23, 2017

11:00 a.m. – Watermaster Board Meeting

*AT CHINO BASIN WATERMASTER OFFICES
9641 San Bernardino Road
Rancho Cucamonga, CA 91730
(909) 484-3888*

CHINO BASIN WATERMASTER

Thursday, March 23, 2017

11:00 a.m. – Watermaster Board Meeting

AGENDA

**CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING**

11:00 a.m. – March 23, 2017

WITH

Mr. James Curatalo – Chair

Mr. Robert DiPrimio – Vice-Chair

At The Offices Of

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

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

1. Minutes of the Watermaster Board Meeting held February 23, 2017 *(Page 1)*

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of January 2017 *(Page 5)*
2. Watermaster VISA Check Detail for the month of January 2017 *(Page 15)*
3. Combining Schedule for the Period July 1, 2016 through January 31, 2017 *(Page 19)*
4. Treasurer's Report of Financial Affairs for the Period January 1, 2017 through January 31, 2017 *(Page 23)*
5. Budget vs. Actual Report for the Period July 1, 2016 through January 31, 2017 *(Page 27)*

C. OBMP SEMI-ANNUAL STATUS REPORTS 2015-2 AND 2016-1 *(Page 51)*

Adopt the Semi-Annual OBMP Status Reports 2015-2 and 2016-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

D. CBWM SUBMITTAL OF ANNUAL REPORTING REQUIREMENTS FOR ADJUDICATED BASINS PURSUANT TO THE SUSTAINABLE GROUNDWATER MANAGEMENT ACT (SGMA) *(Page 77)*

Approve and direct staff to file the information/reports with the DWR.

E. EXHIBIT "G" PHYSICAL SOLUTION TRANSFERS *(Page 85)*

- 1) Find that NRG California South LP is in compliance with the Restated Judgment, Exhibit "G" ¶9(g), authorizing 2016-2017 Exhibit "G" Physical Solution Transfers, 2) Approve levy of assessments and subsequent payments for same.

F. RESOLUTION 2017-04 CONCURRING IN NOMINATION OF MELODY A. McDONALD TO THE EXECUTIVE COMMITTEE OF ACWA/JPIA (Page 91)

II. BUSINESS ITEMS
NONE

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. Safe Yield Reset

B. ENGINEER REPORT

1. Supplemental Water Recharge Procedures
2. Maximum Benefit Annual Report
3. Model Update and Required Demonstration
4. Salinity Management
5. Prado Basin Habitat Sustainability Program
6. Ground-Level Monitoring Program

C. CFO REPORT

1. FY 2017/18 Budget Schedule

D. GM REPORT

1. Santa Ana River Watershed Status Report
2. OBMP PEIR Storage Addendum
3. Other

IV. INFORMATION

1. Cash Disbursements for February 2017 (Page 93)

V. BOARD MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Pursuant to Article 2.6 of the Watermaster Rules & Regulations, a Confidential Session may be held during the Watermaster committee meeting for the purpose of discussion and possible action.

1. Safe Yield Reset

VIII. FUTURE MEETINGS AT WATERMASTER

3/20/17	Tue	2:00 p.m.	Agricultural Pool Special Meeting (Held at Milk Producers Council)
3/21/17	Tue	1:30 p.m.	Prado Basin Habitat Sustainability Program Committee (Held at IEUA)
3/23/17	Thu	8:30 a.m.	Ground-Level Monitoring Committee (GLMC)
3/23/17	Thu	11:00 a.m.	Watermaster Board
3/28/17	Tue	9:00 a.m.	FY 17/18 Budget Distribution/Discussion
4/13/17	Thu	9:00 a.m.	Appropriative Pool
4/13/17	Thu	11:00 a.m.	Non-Agricultural Pool
4/13/17	Thu	1:30 p.m.	Agricultural Pool
4/20/17	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)
4/20/17	Thu	9:00 a.m.	Advisory Committee
4/20/17	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPCom)
4/25/17	Tue	1:00 p.m.	FY 17/18 Budget Workshop #1
4/27/17	Thu	11:00 a.m.	Watermaster Board

ADJOURNMENT

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BEEN LEFT
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CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

A. MINUTES

1. Watermaster Board Meeting held on February 23, 2017

DRAFT MINUTES
CHINO BASIN WATERMASTER
WATERMASTER BOARD MEETING

February 23, 2017

The Watermaster Board meeting was held at the offices of the Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on February 23, 2017.

WATERMASTER BOARD MEMBERS PRESENT

James Curatalo, Chair

Robert DiPrimio, Vice-Chair

Bob Kuhn, Secretary/Treasurer

Bob Bowcock

Geoffrey Vanden Heuvel

Paul Hofer

Steve Elie

Gino L. Filippi

Cucamonga Valley Water District

Fontana Water Company

Three Valleys Municipal Water District

Calmat Company (Vulcan Materials Co.)

Agricultural Pool – Dairy

Agricultural Pool – Crops

Inland Empire Utilities Agency

City of Upland

WATERMASTER BOARD MEMBER ABSENT

Don Galleano

Western Municipal Water District

WATERMASTER STAFF PRESENT

Peter Kavounas

Edgar Tellez Foster

Anna Truong

Justin Nakano

General Manager

Senior Environmental Engineer

Executive Services Director/Board Clerk

Water Resources Senior Associate

WATERMASTER CONSULTANTS PRESENT

Scott Slater

Brad Herrema

Mark Wildermuth

Andy Malone

Brownstein Hyatt Farber Schreck, LLP

Brownstein Hyatt Farber Schreck, LLP

Wildermuth Environmental, Inc.

Wildermuth Environmental, Inc.

OTHERS PRESENT

Brian Geye

Todd Corbin

Bob Feenstra

Ron Craig

Cris Fealy

Eric Tarango

Kati Parker

Dave Crosley

Amanda Coker

Jo Lynne Russo-Pereyra

Teri Layton

Darron Poulsen

Erin Gilhuly

Curtis Paxton

Marilyn Levin

Manny Martinez

Raul Garibay

Rick Hansen

Art Kidman

Tracy Egoscue

Auto Club Speedway

Jurupa Community Services District

Agricultural Pool – Dairy

City of Chino Hills

Fontana Water Company

Fontana Union Water Company

Inland Empire Utilities Agency

City of Chino

City of Chino

Cucamonga Valley Water District

San Antonio Water Company

City of Pomona

CV Strategies

Chino Basin Desalter Authority

State of California – DOJ

Monte Vista Water District

City of Pomona

Three Valleys Municipal Water District

Kidman Law, LLP

Egoscue Law Group

CALL TO ORDER

Chair Curatalo called the Watermaster Board meeting to order at 11:03 a.m.

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

(0:00:40) Mr. Feenstra recognized and thanked Mr. Elie for his leadership as Chair on the Watermaster Board for the past two consecutive terms.

(0:03:29) Mr. Filippi, the newly appointed representative for the City of Upland, introduced himself.

AGENDA - ADDITIONS/REORDER

(0:04:22) Mr. Kavounas recommended to the Board to reorder the Legal Counsel Report immediately prior to Confidential Session due to the newly received Safe Yield Reset Agreement Order from the Court. The Board concurred.

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Watermaster Board Meeting held January 26, 2017

B. FINANCIAL REPORTS

1. Cash Disbursements for the month of December 2016
2. Watermaster VISA Check Detail for the month of December 2016
3. Combining Schedule for the Period July 1, 2016 through December 31, 2016
4. Treasurer's Report of Financial Affairs for the Period December 1, 2016 through December 31, 2016
5. Budget vs. Actual Report for the Period July 1, 2016 through December 31, 2016

C. WATER TRANSACTIONS

1. Notice of Sale or Transfer – The permanent transfer of 27.619 acre-feet of Safe Yield from Ameron International Corporation ("Ameron") to TAMCO, a California Corporation ("TAMCO"). In addition, Ameron requests to transfer 27.619 acre-feet of its Carryover Balance, and 169.358 acre-feet from its Local Storage Account to TAMCO.
2. Notice of Sale or Transfer – The purchase of 2,000.000 acre-feet of water from the City of Norco by Fontana Water Company. This purchase is made from the City of Norco's Excess Carryover Account and is to be transferred to Fontana Water Company's Annual Production Right/Operating Safe Yield.

D. RESOLUTION 2017-03 CONCURRING IN NOMINATION OF KATHLEEN J. TIEGS TO THE EXECUTIVE COMMITTEE OF ACWA JPIA

(0:05:23)

Motion by Mr. Steve Elie, seconded by Mr. Bob Kuhn, and carried unanimously
Moved to approve Consent Calendar as presented

II. BUSINESS ITEMS

NONE

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

1. Update of Rules and Regulations
2. Safe Yield Reset

Item III.A., the Legal Counsel Report, was reordered to follow Item VI.

(0:15:43) Mr. Slater gave a report. The item will be revisited during closed session.

B. ENGINEER REPORT

1. Addendum to Optimum Basin Management Program SEIR
2. Prado Basin Habitat Sustainability Program
3. Ground-Level Monitoring Program
4. Supplemental Water Recharge Procedures
5. Model Update and Required Demonstrations

(0:05:57) Mr. Malone gave a report. A discussion ensued.

C. CFO REPORT

1. Fiscal Year 2016/17 Mid-Year Review
2. Fiscal Year 2017/18 Budget Schedule

(0:09:56) Mr. Kavounas gave a report in Mr. Joswiak's absence.

D. GM REPORT

1. Santa Ana River Watershed Status Report
2. Overlying Non-Agricultural Pool Available Water Per Restated Judgment Exhibit "G"
3. Other

(0:11:57) Mr. Kavounas offered to give a presentation on Item III.D.1., Santa Ana River Watershed Status Report. The Board opted to use the time to discuss the Safe Yield Reset Agreement Order, and move the Santa Ana River presentation to the March 2017 Board agenda.

(0:13:05) Mr. Kavounas gave a report on Item III.D.2, and added an item regarding the Regional Water Quality Control Board's (RWQCB) Cooperative Agreement renewal. Watermaster along with the Inland Empire Utilities Agency (IEUA) declined to sign the original agreement in 2008 since Watermaster and IEUA have consistently complied with reporting all the data through its Maximum Benefit obligations, which are the same data that is being asked through this Cooperative Agreement. The original agreement expires in 2018 and the RWQCB is looking to renew. With the Board's support, Staff plans to decline to participate once again since it is a duplication of effort and there is no added benefit. Watermaster and IEUA will continue to supply all the needed data to the RWQCB, including any data that is not currently being supplied. The Board supported staff's decision in declining to sign the cooperative agreement renewal along with IEUA.

IV. INFORMATION

1. Cash Disbursements for January 2017

V. BOARD MEMBER COMMENTS

None

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

Chair Curatalo called for a confidential session at 11:29 a.m. to discuss the Safe Yield Reset Agreement Order. Mr. Slater noted that Pool Chairs and their counsel were allowed to participate, but must honor the rules of confidentiality. Ms. Egoscue excused herself before the start of confidential session as she did not feel it was appropriate for her to be in attendance. Confidential session concluded at 1:11 p.m. with the following reportable actions:

(0:26:03)

1. The Board will hold a conference call special meeting on March 3, 2017 at 9 a.m. to have further discussion with counsel on the Safe Yield Reset Agreement Order of February 22, 2017.
2. The Board directed staff to process a draft of a proposed Storage Management Plan, for consideration by stakeholders, and with stakeholder's input.

ADJOURNMENT

Chair Curatalo adjourned the Watermaster Board meeting at 1:12 p.m.

Secretary: _____

Approved: _____

CHINO BASIN WATERMASTER

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CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: Cash Disbursement Report - Financial Report B1 (January 31, 2017)

SUMMARY

Issue: Record of Cash Disbursements for the month of January 31, 2017.

Recommendation: Receive and file Cash Disbursements for January 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2016/17 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – March 23, 2017: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously approved

Non-Agricultural Pool – March 9, 2017: Moved unanimously to receive and file, without approval

Agricultural Pool – March 10, 2017: Unanimously approved

Advisory Committee – March 16, 2017: Unanimously approved

Watermaster Board – March 23, 2017:

BACKGROUND

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

DISCUSSION

Total cash disbursements during the month of January 2017 were \$369,707.90.

The most significant expenditures during the month were to Wildermuth Environmental, Inc. in the amount of \$150,434.68 (check number 19926 dated January 31, 2017); and Brownstein Hyatt Farber Schreck in the amount of \$68,594.92 (check number 19925 dated January 31, 2017).

ATTACHMENTS

1. Financial Report - B1

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/03/2017	19879	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	12/22/2016	L0296720		L0296720	7103.5 · Grdwtr Qual-Lab Svcs	966.00
Bill	12/22/2016	L0293809		L0293809	7103.5 · Grdwtr Qual-Lab Svcs	1,056.00
Bill	12/22/2016	L0293188		L0293188	7103.5 · Grdwtr Qual-Lab Svcs	848.00
Bill	12/22/2016	L0296146		L0296146	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
Bill	12/22/2016	L0296840		L0296840	7103.5 · Grdwtr Qual-Lab Svcs	848.00
TOTAL						5,194.00
Bill Pmt -Check	01/03/2017	19880	GREAT AMERICA LEASING CORP.	19859794	1012 · Bank of America Gen'l Ckg	
Bill	12/22/2016	19859794		Invoice	6043.1 · Ricoh Lease Fee	3,319.53
TOTAL						3,319.53
Bill Pmt -Check	01/03/2017	19881	IPSWITCH, INC.	2016-315759	1012 · Bank of America Gen'l Ckg	
Bill	12/21/2016	2016-315759		1 year support 740F5EFCRIE1055	6055 · Computer Hardware	270.00
				1 year support 68RH425C3H136MP	6055 · Computer Hardware	270.00
TOTAL						540.00
Bill Pmt -Check	01/03/2017	19882	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	12/15/2016	12/15 Storage Mtg		12/16/16 Storage Meeting	8411 · Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	01/03/2017	19883	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	12/22/2016	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	651.68
TOTAL						651.68
Bill Pmt -Check	01/03/2017	19884	VERIZON WIRELESS	9776938543	1012 · Bank of America Gen'l Ckg	
Bill	12/22/2016	9776938541		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.08
TOTAL						100.08
Bill Pmt -Check	01/05/2017	19885	APPLIED COMPUTER TECHNOLOGIES	2762	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	2762		Database Consulting - December 2016	6052.2 · Applied Computer Technol	3,314.80
TOTAL						3,314.80
Bill Pmt -Check	01/05/2017	19886	LEVEL 3 COMMUNICATIONS	50044564	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	50044564		12/17/16-1/16/17	6053 · Internet Expense	1,045.85
TOTAL						1,045.85
Bill Pmt -Check	01/05/2017	19887	LOEB & LOEB LLP	1698074	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	1698074		Non-Ag Pool Legal Services - November 2016	8567 · Non-Ag Legal Service	1,239.75

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Financial Report - B1

	<u>Type</u>	<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL							1,239.75
	Bill Pmt -Check	01/05/2017	19888	PREMIERE GLOBAL SERVICES	22687861	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2016	22687861		RMPUA call on 12/06	7204 · Comp Recharge-Supplies	13.13
					WM Coordination call on 12/05	6909.1 · OBMP Meetings	6.09
					Fee - Confidential	6022 · Telephone	49.00
					Fee - General	6022 · Telephone	49.00
					WM coordination call on 11/28	6909.1 · OBMP Meetings	6.10
					WM coordination call on 12/05	6909.1 · OBMP Meetings	6.12
					WM coordination call on 12/12	6909.1 · OBMP Meetings	15.96
					WM coordination call on 12/19	6909.1 · OBMP Meetings	18.84
					Service fee	6022 · Telephone	2.33
TOTAL							166.57
	Bill Pmt -Check	01/05/2017	19889	PRINTING RESOURCES		1012 · Bank of America Gen'l Ckg	
	Bill	12/16/2016	63781		Name badges: Gregory, Tellez Foster	6031.7 · Other Office Supplies	92.45
	Bill	12/20/2016	63757		Nameplates - DiPrimio, Swift	6031.7 · Other Office Supplies	61.34
TOTAL							153.79
PS	Bill Pmt -Check	01/05/2017	19890	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	01/01/2017	1394905143		Unfunded Accrued Liability	60180 · Employers PERS Expense	3,590.95
TOTAL							3,590.95
	Bill Pmt -Check	01/05/2017	19891	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2016	8000909000168851		3 ink cartridges for postage meter	6031.7 · Other Office Supplies	226.77
TOTAL							226.77
	Bill Pmt -Check	01/05/2017	19892	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2016	0023230253		Office Water Bottle - December 2016	6031.7 · Other Office Supplies	73.35
TOTAL							73.35
	Bill Pmt -Check	01/05/2017	19893	RR FRANCHISING, INC.	32995	1012 · Bank of America Gen'l Ckg	
	Bill	01/03/2017	32995		Monthly services 1/01/17-1/31/17	6024 · Building Repair & Maintenance	740.00
TOTAL							740.00
	Bill Pmt -Check	01/05/2017	19894	STAPLES BUSINESS ADVANTAGE	8042330513	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2016	8042330513		Miscellaneous office supplies	6031.7 · Other Office Supplies	142.60
TOTAL							142.60
	Bill Pmt -Check	01/05/2017	19895	STATE COMPENSATION INSURANCE FUND	1970970-16	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	01/01/2017	1970970-16		Premium for 12/26/16-1/26/17	60183 · Worker's Comp Insurance	910.00
TOTAL						910.00
Bill Pmt -Check	01/05/2017	19896	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	7075224530355049		December 2016	6175 · Vehicle Fuel	148.83
TOTAL						148.83
Bill Pmt -Check	01/05/2017	19897	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	001017890001		Vision Insurance Premium - January 2017	60182.2 · Dental & Vision Ins	85.60
TOTAL						85.60
Bill Pmt -Check	01/05/2017	ACH 010517	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	12/31/2016	12/31/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 12/18/16-12/31/16	2000 · Accounts Payable	6,412.27
TOTAL						6,412.27
General Journal	01/14/2017	01/14/2017	Payroll and Taxes for 01/01/17-01/14/17	Payroll and Taxes for 01/01/17-01/14/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 01/01/17-01/14/17	1012 · Bank of America Gen'l Ckg	24,326.40
				Payroll Taxes for 01/01/17-01/14/17	1012 · Bank of America Gen'l Ckg	9,690.45
			ICMA-RC	457(f) Employee Deductions for 01/01/17-01/14/17	1012 · Bank of America Gen'l Ckg	4,383.43
			ICMA-RC	401(a) Employee Deductions for 01/01/17-01/14/17	1012 · Bank of America Gen'l Ckg	1,233.81
TOTAL						39,634.09
Check	01/17/2017	01/17/20107	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
				Service Charge	6039.1 · Banking Service Charges	439.07
TOTAL						439.07
Bill Pmt -Check	01/20/2017	ACH 012017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	01/14/2017	01/14/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/01/17-01/14/17	2000 · Accounts Payable	6,528.87
TOTAL						6,528.87
Bill Pmt -Check	01/23/2017	19898	ACWA JOINT POWERS INSURANCE AUTHORITY	0457748	1012 · Bank of America Gen'l Ckg	
Bill	01/10/2017	0457748		Prepayment - February 2017	1409 · Prepaid Life, BAD&D & LTD	138.37
				January 2017	60191 · Life & Disab.Ins Benefits	138.36
TOTAL						276.73
Bill Pmt -Check	01/23/2017	19899	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	XXXX-XXXX-XXXX-9341		Send check for copier lease	6042 · Postage - General	34.79
				Christmas lunch for staff	6141.3 · Admin Meetings	293.17
				Purchase HDMI cable for office	6031.7 · Other Office Supplies	6.99
				Purchase blue ray player for Boardroom	6031.7 · Other Office Supplies	68.65

P9

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
				Purchase interface for Levellogger for water levels	7104.6 · Grdwtr Level-Supplies	339.76
				Purchase annual service plan for Quickbooks	6054 · Computer Software	2,199.00
				Purchase shirts for new staff	6154 · Uniforms	104.44
				Purchase audio connectors for Boardroom	6031.7 · Other Office Supplies	5.89
				PK meeting w/Blomquist, Slater, Herrema	6909.1 · OBMP Meetings	101.62
				Purchase photo collage for Jeske retirement	6031.7 · Other Office Supplies	4.45
				Fastrack replenishment	6174 · Public Transportation	30.00
				PK meeting w/Bowcock	6312 · Meeting Expenses	26.22
				Lunch for 12/12/16 WM 101 Meeting	6909.1 · OBMP Meetings	123.38
				Lunch for 12/15/16 Storage Workshop	7604 · PE8&9-Supplies	70.10
				Purchase light for executive office	6031.7 · Other Office Supplies	20.85
				Purchase book "The Power of Fifty Bits"	6031.7 · Other Office Supplies	22.02
				Purchase book "Flow"	6031.7 · Other Office Supplies	17.50
				Purchase replacement pads for AED device	6031.7 · Other Office Supplies	67.00
				PK meeting w/Norton	6909.1 · OBMP Meetings	55.39
				Purchase memory card for office	6031.7 · Other Office Supplies	43.15
				Purchase umbrella bags	6031.7 · Other Office Supplies	36.25
				Purchase umbrella stand	6031.7 · Other Office Supplies	59.05
				Membership dues for Groundwater Resources	6111 · Membership Dues	345.00
				AMA Membership dues for 1/01/17-12/31/17	6111 · Membership Dues	2,295.00
				Purchase picture for office	6031.7 · Other Office Supplies	355.51
				Registration-Tellez Foster-2/06/17 Seminar	6193.2 · Conference - Registration Fee	405.00
				TOTAL		7,130.18
P10						
Bill Pmt -Check	01/23/2017	19900	CORELOGIC INFORMATION SOLUTIONS	81762671	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	81762671		81762671	7103.7 · Grdwtr Qual-Computer Svc	62.50
				81762671	7101.4 · Prod Monitor-Computer	62.50
				TOTAL		125.00
Bill Pmt -Check	01/23/2017	19901	CUCAMONGA VALLEY WATER DISTRICT	Lease due February 1, 2017	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2017			Lease due February 1, 2017	1422 · Prepaid Rent	6,447.61
				TOTAL		6,447.61
Bill Pmt -Check	01/23/2017	19902	CURATALO, JAMES	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	12/21/2016	12/21 Admin Mtg		12/21/16 Admin Meeting w/PK	6311 · Board Member Compensation	125.00
				TOTAL		125.00
Bill Pmt -Check	01/23/2017	19903	EGOSCUE LAW GROUP	11486	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	11486		Ag Pool Legal Services - December 2016	8467 · Ag Legal & Technical Services	4,700.00
				TOTAL		4,700.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/23/2017	19904	EUROFINS EATON ANALYTICAL	L0299920	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	L0299920		L0299920	7103.5 · Grdwtr Qual-Lab Svcs	483.00
TOTAL						483.00
Bill Pmt -Check	01/23/2017	19905	EXCEL MICRO, LLC		1012 · Bank of America Gen'l Ckg	
Bill	01/10/2017	EM44212		Semi-annual billing Feb. 2016 through Jul. 2016	6054 · Computer Software	216.00
Bill	01/10/2017	EM56186		Semi-annual billing Aug. 2016 through Jan. 2017	6054 · Computer Software	216.00
TOTAL						432.00
Bill Pmt -Check	01/23/2017	19906	FIRST LEGAL NETWORK LLC	40007517	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	40007517		Filings for December 2016	6061.5 · Court Filing Services	704.87
TOTAL						704.87
Bill Pmt -Check	01/23/2017	19907	FRONTIER COMMUNICATIONS	909-484-3890-050914-5	1012 · Bank of America Gen'l Ckg	
Bill	01/17/2017	90948438900509145		Office fax	6022 · Telephone	139.34
TOTAL						139.34
Bill Pmt -Check	01/23/2017	19908	HR DIRECT / GNEIL	INV4886747	1012 · Bank of America Gen'l Ckg	
Bill	01/09/2017	INV4886747		Poster guard protection for HR Posters - 2017	6031.7 · Other Office Supplies	80.80
TOTAL						80.80
Bill Pmt -Check	01/23/2017	19909	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
Bill	01/17/2017	0111802		Employee deductions - January 2017	60194 · Other Employee Insurance	79.70
TOTAL						79.70
Bill Pmt -Check	01/23/2017	19910	MINDSHIFT	0236526	1012 · Bank of America Gen'l Ckg	
Bill	01/01/2017	0236526		IT Managed Services	6052.4 · mindSHIFT-Managed Services	3,770.00
				Backup & Recovery	6052.5 · mindSHIFT-Data Backup/Storage	792.00
TOTAL						4,562.00
Bill Pmt -Check	01/23/2017	19911	PAYCHEX	2016122900	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	2016122900		December 2016	6012 · Payroll Services	422.68
TOTAL						422.68
Bill Pmt -Check	01/23/2017	19912	PITNEY BOWES CREDIT CORPORATION	3100949547	1012 · Bank of America Gen'l Ckg	
Bill	01/10/2017	3100949547		Postage meter lease	6044 · Postage Meter Lease	401.91
TOTAL						401.91
Bill Pmt -Check	01/23/2017	19913	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	01/18/2017	1394905143		1959 Survivor Benefit 7/01/2016 through 6/30/2017	60180 · Employers PERS Expense	258.00
TOTAL						258.00
Bill Pmt -Check	01/23/2017	19914	R&D PEST SERVICES	0210498	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2017	0210498		Pest control-inside and outside	6024 · Building Repair & Maintenance	100.00
TOTAL						100.00
Bill Pmt -Check	01/23/2017	19915	RIGHT OF WAY, INC.		1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	25277		25277	7103.6 · Grdwtr Qual-Supplies	75.00
Bill	12/31/2016	25284		25284	7103.6 · Grdwtr Qual-Supplies	75.00
TOTAL						150.00
Bill Pmt -Check	01/23/2017	19916	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017			Retiree medical	60182.4 · Retiree Medical	22.24
TOTAL						22.24
Bill Pmt -Check	01/23/2017	19917	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	12/15/2016	12/15 Storage Wkshp		12/15/16 Storage Workshop	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	01/23/2017	19918	UNITED HEALTHCARE	0042525605	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2017	0042525605		Dental Insurance Premium - February 2017	60182.2 · Dental & Vision Ins	749.75
TOTAL						749.75
Bill Pmt -Check	01/23/2017	19919	VERIZON WIRELESS	9778128207	1012 · Bank of America Gen'l Ckg	
Bill	01/16/2017	9778128207		Acct #470810953-00001	6022 · Telephone	168.16
				Equipment purchased	6022 · Telephone	149.81
TOTAL						317.97
Bill Pmt -Check	01/23/2017	19920	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	01/10/2017	08-k2 213849		January 2017	6024 · Building Repair & Maintenance	111.57
TOTAL						111.57
Bill Pmt -Check	01/23/2017	19921	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	01/18/2017	1394905143		1394905143	60182.1 · Medical Insurance	8,172.69
TOTAL						8,172.69
Bill Pmt -Check	01/23/2017	19922	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	12/02/2016	12/02 Admin Mtg		12/02/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL						125.00

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/23/2017	19923	PRINTING RESOURCES	63835	1012 · Bank of America Gen'l Ckg	
Bill	01/10/2017	63835		Plaque - "Thank you for your contribution"	6031.7 · Other Office Supplies	30.60
TOTAL						30.60
Bill Pmt -Check	01/24/2017	19924	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	XXXX-XXXX-XXXX-9341		Fee for item purchased from Solinst Canada	7104.6 · Grdwtr Level-Supplies	10.20
TOTAL						10.20
General Journal	01/28/2017	01/28/2017	Payroll and Taxes for 01/14/17-01/28/17	Payroll and Taxes for 01/14/17-01/28/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 01/14/17-01/28/17	1012 · Bank of America Gen'l Ckg	24,017.65
				Payroll Taxes for 01/14/17-01/28/17	1012 · Bank of America Gen'l Ckg	8,598.51
			ICMA-RC	457(f) Employee Deductions for 01/14/17-01/28/17	1012 · Bank of America Gen'l Ckg	4,399.88
			ICMA-RC	401(a) Employee Deductions for 01/14/17-01/28/17	1012 · Bank of America Gen'l Ckg	1,235.97
TOTAL						38,252.01
P 13	Bill Pmt -Check	01/31/2017	19925	BROWNSTEIN HYATT FARBER SCHRECK	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2016	666132	666132	6907.44 · SGMA Compliance	6,147.90
	Bill	12/31/2016	666133	666133	6907.42 · Safe Yield Recalculation	1,606.05
				Expenses	6907.40 · Storage Agreements	300.00
				Expenses	6078 · BHFS Legal - Miscellaneous	225.00
	Bill	12/31/2016	666134	666134	6907.40 · Storage Agreements	17,598.15
				Expenses	6907.40 · Storage Agreements	930.15
	Bill	12/31/2016	666135	666135	6907.39 · Recharge Master Plan	1,063.80
	Bill	12/31/2016	666136	666136	6072 · BHFS Legal - Annotated Judgment	153.00
	Bill	12/31/2016	666137	666137	6071 · BHFS Legal - Court Coordination	1,138.05
	Bill	12/31/2016	666138	666138	6907.36 · Santa Ana River Habitat	6,419.25
	Bill	12/31/2016	666139	Alvarez-CalPERS	6073 · BHFS Legal - Personnel Matters	18,691.20
				666139	6078 · BHFS Legal - Miscellaneous	842.40
			Alvarez-Expenses	6073 · BHFS Legal - Personnel Matters	1,040.53	
Bill	12/31/2016	666140	666140	6078 · BHFS Legal - Miscellaneous	12,282.75	
			Expenses	6078 · BHFS Legal - Miscellaneous	156.69	
TOTAL						68,594.92
Bill Pmt -Check	01/31/2017	19926	WILDERMUTH ENVIRONMENTAL INC	1012 · Bank of America Gen'l Ckg		
Bill	12/31/2016	2016441	2016441	6906.32 · OBMP-Other General Meetings	8,094.15	
Bill	12/31/2016	2016442	2016442	6910.20 · RMPU - MPI Analysis	17,509.13	
Bill	12/31/2016	2016443	2016443	6906.71 · OBMP-Data Req.-CBWM Staff	644.52	
Bill	12/31/2016	2016444	2016444	6906.71 · OBMP-Data Req.-CBWM Staff	945.30	
Bill	12/31/2016	2016445	2016445	6906.71 · OBMP-Data Req.-CBWM Staff	12,516.95	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
January 2017

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	12/31/2016	2016446			6906.23 · SGMA Reporting Requirements	2,867.35
Bill	12/31/2016	2016447			6906 · OBMP Engineering Services	2,624.95
Bill	12/31/2016	2016448			6906.1 · OBMP-Watermaster Model Update	31,931.75
Bill	12/31/2016	2016449			6906.81 · Prepare 38th/39th Annual Rpts	4,780.54
Bill	12/31/2016	2016450			6906.21 · State of the Basin Report	7,918.20
Bill	12/31/2016	2016451			7103.3 · Grdwtr Qual-Engineering	8,415.94
Bill	12/31/2016	2016452			7104.3 · Grdwtr Level-Engineering	8,605.40
Bill	12/31/2016	2016453			7107.2 · Grd Level-Engineering	3,334.30
Bill	12/31/2016	2016454			7202.2 · Engineering Svc	759.90
Bill	12/31/2016	2016455			7402 · PE4-Engineering	2,021.00
Bill	12/31/2016	2016456			7402.10 · PE4 - Northwest MZ1 Area Proj.	11,432.63
Bill	12/31/2016	2016457			7502 · PE6&7-Engineering	600.60
Bill	12/31/2016	2016458			7108.31 · Hydraulic Control - PBHSP	25,432.07
TOTAL						150,434.68
General Journal	01/31/2017	01/31/2017	Wage Works FSA Direct Debits - January 2017	Wage Works FSA Direct Debits - January 2017	1012 · Bank of America Gen'l Ckg	-
				Wage Works FSA Direct Debits - January 2017	1012 · Bank of America Gen'l Ckg	81.50
				Wage Works FSA Direct Debits - January 2017	1012 · Bank of America Gen'l Ckg	638.75
				Wage Works FSA Direct Debits - January 2017	1012 · Bank of America Gen'l Ckg	638.75
						1,359.00
Total Disbursements:						369,707.90

TOTAL
369,707.90



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: VISA Check Detail Report - Financial Report B2 (January 31, 2017)

SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of January 31, 2017.

Recommendation: Receive and file VISA Check Detail Report for January 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2016/17 "Amended" Watermaster Budget.

Future Consideration
Watermaster Board – March 23, 2017: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously approved
Non-Agricultural Pool – March 9, 2017: Moved unanimously to receive and file, without approval
Agricultural Pool – March 10, 2017: Unanimously approved
Advisory Committee – March 16, 2017: Unanimously approved
Watermaster Board – March 23, 2017:

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 January 2017 were \$7,140.38. The payments were processed in the amount of \$7,130.18 (by check number 19899 dated January 23, 2017) and the amount of \$10.20 (by check number 19924 dated January 24, 2017). The monthly charges for January 2017 of \$7,140.38 were for routine and customary expenditures and properly documented with receipts.

ATTACHMENTS

1. Financial Report - B2

CHINO BASIN WATERMASTER
VISA Check Detail Report
January 2017

Type	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/23/2017	19899	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	XXXX-XXXX-XXXX-9341		Send check for copier lease	6042 · Postage - General	34.79
				Christmas lunch for staff	6141.3 · Admin Meetings	293.17
				Purchase HDMI cable for office	6031.7 · Other Office Supplies	6.99
				Purchase blue ray player for Boardroom	6031.7 · Other Office Supplies	68.65
				Purchase interface for Levellogger for water levels	7104.6 · Grdwtr Level-Supplies	339.76
				Purchase annual service plan for Quickbooks	6054 · Computer Software	2,199.00
				Purchase shirts for new staff	6154 · Uniforms	104.44
				Purchase audio connectors for Boardroom	6031.7 · Other Office Supplies	5.89
				PK meeting w/Blomquist, Slater, Herrema	6909.1 · OBMP Meetings	101.62
				Purchase photo collage for Jeske retirement	6031.7 · Other Office Supplies	4.45
				Fastrack replenishment	6174 · Public Transportation	30.00
				PK meeting w/Bowcock	6312 · Meeting Expenses	26.22
				Lunch for 12/12/16 WM 101 Meeting	6909.1 · OBMP Meetings	123.38
				Lunch for 12/15/16 Storage Workshop	7604 · PE8&9-Supplies	70.10
				Purchase light for executive office	6031.7 · Other Office Supplies	20.85
				Purchase book "The Power of Fifty Bits"	6031.7 · Other Office Supplies	22.02
				Purchase book "Flow"	6031.7 · Other Office Supplies	17.50
				Purchase replacement pads for AED device	6031.7 · Other Office Supplies	67.00
				PK meeting w/Norton	6909.1 · OBMP Meetings	55.39
				Purchase memory card for office	6031.7 · Other Office Supplies	43.15
				Purchase umbrella bags	6031.7 · Other Office Supplies	36.25
				Purchase umbrella stand	6031.7 · Other Office Supplies	59.05
				Membership dues for Groundwater Resources	6111 · Membership Dues	345.00
				AMA Membership dues for 1/01/17-12/31/17	6111 · Membership Dues	2,295.00
				Purchase picture for office	6031.7 · Other Office Supplies	355.51
				Registration-Tellez Foster-2/06/17 Seminar	6193.2 · Conference - Registration Fee	405.00
TOTAL					Total Disbursements:	<u>7,130.18</u>
Bill Pmt -Check	01/24/2017	19924	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2016	XXXX-XXXX-XXXX-9341		Fee for item purchased from Solinst Canada	7104.6 · Grdwtr Level-Supplies	10.20
TOTAL					Total Disbursements:	<u>10.20</u>
					Grand Total Disbursements:	<u><u>7,140.38</u></u>

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CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2016 through January 31, 2017 - Financial Report B3 (January 31, 2017)

SUMMARY

Issue: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2016 through January 31, 2017.

Recommendation: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2016 through January 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2016/17 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – March 23, 2017: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously approved

Non-Agricultural Pool – March 9, 2017: Moved unanimously to receive and file, without approval

Agricultural Pool – March 10, 2017: Unanimously approved

Advisory Committee – March 16, 2017: Unanimously approved

Watermaster Board – March 23, 2017:

BACKGROUND

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2016 through January 31, 2017 is provided to keep all members apprised of the FY 2016/17 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 17.0, 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, 2016 THROUGH JANUARY 31, 2017

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WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION & SPECIAL PROJECTS			GROUNDWATER REPLENISHMENT	LAIF VALUE ADJ.	GASB 68 BEG. NET POSITION	GRAND TOTALS	AMENDED BUDGET 2016-2017
		APPROPRIATIVE POOL	AG POOL	NON-AG POOL					
Administrative Revenues:									
Administrative Assessments		10,059,406		255,682			10,315,088	10,314,656	
Interest Revenue		20,859	1,560	216			22,635	19,890	
Mutual Agency Project Revenue	159,631						159,631	158,923	
Miscellaneous Income							-	0	
Total Revenues	159,631	10,080,265	1,560	255,898	-	-	10,497,354	10,493,469	
Administrative & Project Expenditures:									
Watermaster Administration	983,281						983,281	1,286,992	
Watermaster Board-Advisory Committee	108,906						108,906	202,053	
Ag Pool Misc. Expense - Ag Fund			546				546	400	
Pool Administration		62,045	156,059	54,571			272,675	569,293	
Optimum Basin Mgmt Administration	925,608						925,608	1,727,519	
OBMP Project Costs	1,815,563						1,815,563	3,811,606	
Debt Service	465,200						465,200	465,200	
Basin Recharge Improvements	664,667						664,667	5,060,744	
Total Administrative/OBMP Expenses	1,092,187	3,871,039	62,045	156,059	-	-	5,236,446	13,123,806	
Net Administrative/OBMP Expenses	(932,556)	(3,871,039)							
Allocate Net Admin Expenses To Pools	932,556		701,751	204,244	26,561		-	-	
Allocate Net OBMP Expenses To Pools		2,741,171	2,062,740	600,358	78,074		-	-	
Allocate Debt Service to App Pool		465,200	465,200				-	-	
Allocate Basin Recharge to App Pool		664,667	664,667				-	-	
Agricultural Expense Transfer*			960,660	(960,660)			-	-	
Total Expenses		4,917,063	546	159,206	-	-	5,236,446	13,123,806	
Net Administrative Income		5,163,202	1,014	96,692	-	-	5,260,908	(2,630,337)	
Other Income/(Expense)									
Replenishment Water Assessments					858,227		858,227	0	
Desalter Replenishment Obligation					116,635		116,635	0	
Non-Ag Stored Water Purchases							-	0	
Exhibit "G" Non-Ag Pool Water							-	0	
Interest Revenue					5,762		5,762	0	
MWD Water Purchases							-	0	
Non-Ag Stored Water Purchases							-	0	
Exhibit "G" Non-Ag Pool Water							-	0	
MWD Water Purchases							-	0	
Groundwater Replenishment					(2,471,040)		(2,471,040)	0	
LAIF - Fair Market Value Adjustment							-	0	
Other Post-Employment Benefits (OPEB)							-	0	
Refund-Excess Reserves		(31,189)		(3,509)			(34,698)	0	
Refund-Recharge Debt		(155,824)					(155,824)	0	
SB 222 Funds Used		(153,744)		(4,507)			(158,251)	0	
Net Other Income/(Expense)		(340,757)	-	(8,016)	(1,490,416)	-	(1,839,189)	0	
Net Transfers To/(From) Reserves	3,421,719	4,822,445	1,014	88,676	(1,490,416)	-	3,421,719	(2,630,337)	
Net Assets, July 1, 2016		7,493,337	483,176	79,969	2,465,056	3,308	(740,195)	9,784,651	
Net Assets, End of Period		12,315,782	484,190	168,645	974,640	3,308	(740,195)	13,206,371	
15/16 Assessable Production		89,906.000	26,167.031	3,402.908			119,475.939		
15/16 Production Percentages		75.250%	21.902%	2.848%			100.000%		

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

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017

TO: Board Members

SUBJECT: Treasurer's Report of Financial Affairs for the Period January 1, 2017 through January 31, 2017 - Financial Report B4 (January 31, 2017)

SUMMARY

Issue: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of January 1, 2017 through January 31, 2017.

Recommendation: Receive and file Treasurer's Report of Financial Affairs for the Period January 1, 2017 through January 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2016/17 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – March 23, 2017: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously approved

Non-Agricultural Pool – March 9, 2017: Moved unanimously to receive and file, without approval

Agricultural Pool – March 10, 2017: Unanimously approved

Advisory Committee – March 16, 2017: Unanimously approved

Watermaster Board – March 23, 2017:

BACKGROUND

A Treasurer's Report of Financial Affairs for the Period January 1, 2017 through January 31, 2017 is provided to keep all members apprised of the total cash in banks (Bank of America, LAIF, and CalTRUST) and 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 17.0, 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
JANUARY 1, 2017 THROUGH JANUARY 31, 2017**

Financial Report - B4

DEPOSITORIES:

Cash on Hand - Petty Cash			\$	500
Bank of America				
Governmental Checking-Demand Deposits	\$	78,741		
Zero Balance Account - Payroll	\$	-		78,741
Local Agency Investment Fund - Sacramento				15,141,582
TOTAL CASH IN BANKS AND ON HAND		1/31/2017		\$ 15,220,823
TOTAL CASH IN BANKS AND ON HAND		12/31/2016		15,526,256
				\$ (305,433)

CHANGE IN CASH POSITION DUE TO:

Decrease/(Increase) in Assets: Accounts Receivable			\$	40,742
Assessments Receivable				23,533
Prepaid Expenses, Deposits & Other Current Assets				9,799
(Decrease)/Increase in Liabilities: Accounts Payable				118,693
Accrued Payroll, Payroll Taxes & Other Current Liabilities				252,725
Long Term Liabilities				1,594
Transfer to/(from) Reserves				(752,519)
				\$ (305,433)

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SUMMARY OF FINANCIAL TRANSACTIONS:

	Petty Cash	Govt'l Checking Demand	Zero Balance Account Payroll	Local Agency Investment Funds	Totals
Balances as of 12/31/2016	\$ 500	\$ 399,354	\$ -	\$ 15,126,403	\$ 15,526,256
Deposits	-	49,095	-	15,179	64,274
Transfers	-	(93,739)	(67,787)	-	(161,525)
Withdrawals/Checks	-	(275,969)	67,787	-	(208,183)
	\$ 500	\$ 78,741	\$ -	\$ 15,141,582	\$ 15,220,823
PERIOD INCREASE OR (DECREASE)	\$ -	\$ (320,613)	\$ -	\$ 15,179	\$ (305,433)

**CHINO BASIN WATERMASTER
TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD
JANUARY 1, 2017 THROUGH JANUARY 31, 2017**

INVESTMENT TRANSACTIONS

Effective Date	Transaction	Depository	Activity	Redeemed	Days to Maturity	Interest Rate(*)	Maturity Yield
1/13/2017	Qtrly. Interest		\$ 15,179				
TOTAL INVESTMENT TRANSACTIONS			\$ 15,179	-			

* The earnings rate for L.A.I.F. is a daily variable rate; 0.68% was the effective yield rate at the Quarter ended December 31, 2016.

**INVESTMENT STATUS
January 31, 2017**

<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	\$ 15,141,582			
TOTAL INVESTMENTS	\$ 15,141,582			

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

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CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: Budget vs. Actual Report for the Period July 1, 2016 through January 31, 2017 -
Financial Report B5 (January 31, 2017)

SUMMARY

Issue: Record of revenues and expenses of Watermaster for the Period of July 1, 2016 through January 31, 2017.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2016 through January 31, 2017 as presented.

Financial Impact: Funds disbursed were included in the FY 2016/17 "Amended" Watermaster Budget.

Future Consideration

Watermaster Board – March 23, 2017: Receive and File (Normal Course of Business)

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously approved

Non-Agricultural Pool – March 9, 2017: Moved unanimously to receive and file, without approval

Agricultural Pool – March 10, 2017: Unanimously approved

Advisory Committee – March 16, 2017: Unanimously approved

Watermaster Board – March 23, 2017:

BACKGROUND

A Budget vs. Actual Report for the period July 1, 2016 through January 31, 2017 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 17.0, 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 – JANUARY 2017

Year-To-Date (YTD) for the seven months ending January 31, 2017, all but three categories were at or below the projected budget. The categories over budget were as follows: (1) Administration Salary/Benefits expenses (6010's) which were over budget by \$20,436 or 3.6% as a result of increased staff time and activities in the administrative functions. Please note that the overage is only in the administrative section, not with the entire consolidated staffing budget; (2) Watermaster Legal Services expenses (6070's) which were over budget by \$65,267 or 49.6% as a result of ongoing Personnel Matters regarding the CalPERS Administrative Hearing for Mr. Alvarez and increased miscellaneous legal expenses; and (3) Ag Legal & Technical Services expenses (8467's) which were over budget by \$1,643 or 1.4% as a result of ongoing Safe Yield Redetermination and Reset efforts, Storage Agreements, and other legal activities.

The Watermaster budget for FY 2016/17 is divided into 12-monthly amounts and allocated accordingly for almost all budget line items. As the fiscal year progresses, these categories might level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$4,014,896 or 43.4% below the (YTD) Budgeted Expenses of \$9,251,342.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

August 2016:

The Amended Budget for FY 2016/17 is \$13,123,806.45 which includes \$2,630,337.45 for the prior years "Carry Over" funding. The Original Approved budget for FY 2016/17 of \$10,493,469 was approved by the Watermaster Board on May 26, 2016 ($\$10,493,469 + \$2,630,337.45 = \$13,123,806.45$).

July 2016:

During the month of July 2016, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$2,630,337.45 has been posted to the general ledger accounts. The total amount of \$2,630,337.45 consisted of \$2,264,522.96 from Capital Improvement Projects, \$326,577 from Engineering Services, \$29,285.99 from Chino Hills ASR, and \$9,951.50 from the Administrative section for the ongoing completion of the 37th Annual Report for Fiscal Year 2013/14 and the 38th Annual Report for Fiscal Year 2014/15. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

SALARIES EXPENSE

CURRENT MONTH – JANUARY 2017

As of January 31, 2017, the total (YTD) Watermaster salary expenses were \$85,892 or 8.6% below the (YTD) budgeted amount of \$997,555. The overall staffing budget was developed with a staffing level of ten Full-Time Equivalents (FTE's), and staffing is currently at nine 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 2016/17 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 January 31, 2017. 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 '16 - Jan '17 Actual	Jul '16 - Jan '17 Budget	\$ Over Budget	% of Budget	FY 2016/17 Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	522,579.76	540,402.00	-17,822.24	96.7%	918,331.00
6011.1 · WM Staff Salaries - Overtime	8,784.40	0.00	8,784.40	100.0%	0.00
6011.4 · 457(f) NQDC Plan	13,320.73	12,134.00	1,186.73	109.78%	20,800.00
6015 · Miscellaneous Payments	60,188.76	0.00	60,188.76	100.0%	0.00
6017 · Temporary Services	0.00	12,250.00	-12,250.00	0.0%	21,000.00
6201 · Advisory Committee - WM Staff Salaries	11,824.26	13,606.00	-1,781.74	86.91%	23,119.00
6301 · Watermaster Board - WM Staff Salaries	16,657.11	20,920.00	-4,262.89	79.62%	35,551.00
8301 · Appropriative Pool - WM Staff Salaries	21,205.59	18,810.00	2,395.59	112.74%	31,965.00
8401 · Agricultural Pool - WM Staff Salaries	10,650.49	16,551.00	-5,900.51	64.35%	28,126.00
8501 · Non-Agricultural Pool - WM Staff Salaries	9,599.79	10,712.00	-1,112.21	89.62%	18,202.00
6901 · OBMP - WM Staff Salaries	32,240.25	29,644.00	2,596.25	108.76%	50,114.00
7101.1 · Production Monitor - WM Staff Salaries	24,754.45	47,289.00	-22,534.55	52.35%	80,622.00
7102.1 · In-line Meter - WM Staff Salaries	764.23	5,525.00	-4,760.77	13.83%	9,389.00
7103.1 · Grdwater Quality - WM Staff Salaries	27,809.25	51,321.00	-23,511.75	54.19%	87,527.00
7104.1 · Grdwater Level - WM Staff Salaries	33,506.05	21,772.00	11,734.05	153.9%	36,999.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	1,856.00	-1,856.00	0.0%	3,155.00
7108.11 · Prado Basin - WM Staff Salaries	2,148.96	3,492.00	-1,343.04	61.54%	5,936.00
7201 · Comp Recharge - WM Staff Salaries	31,104.95	34,629.00	-3,524.05	89.82%	58,533.00
7301 · PE3&5 - WM Staff Salaries	78.60	9,117.00	-9,038.40	0.86%	15,492.00
7401 · PE4 - WM Staff Salaries	436.71	5,546.00	-5,109.29	7.87%	9,425.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	2,928.00	-2,928.00	0.0%	4,974.00
7501 · PE6&7 - WM Staff Salaries	0.00	2,647.00	-2,647.00	0.0%	4,498.00
7601 · PE8&9 - WM Staff Salaries	6,953.81	27,123.00	-20,169.19	25.64%	46,090.00
Subtotal WM Staff Costs	834,608.15	888,274.00	-53,665.85	93.96%	1,509,848.00
60185 · Vacation	28,324.80	40,316.00	-11,991.20	70.26%	69,111.00
60186 · Sick Leave	7,295.80	28,397.00	-21,101.20	25.69%	48,682.00
60187 · Holidays	41,434.75	40,568.00	866.75	102.14%	48,682.00
Subtotal WM Paid Leaves	77,055.35	109,281.00	-32,225.65	70.51%	166,475.00
Total WM Salary Costs	911,663.50	997,555.00	-85,891.50	91.39%	1,676,323.00

PREVIOUSLY REPORTED ACTIONS (Descending Order)

November 2016:

The Sr. Environmental Engineer started his career with Watermaster on Tuesday, November 8, 2016. For more background information on the current Watermaster staff, please see the profile material provided on the Watermaster website: http://www.cbwm.org/org_staff.htm

September 2016:

The ongoing search for the new Water Resources Professional continued with the understanding that Watermaster is a small organization, and very important to ensure that the new team member not only have the right skills and abilities to succeed, but also critical to ensure the employee has the right personality, cultural fit, and understands the unique challenges of working within a small organization. Watermaster conducted three interviews for the Water Resources Professional during October 11, 2016 and October 20, 2016. The General Manager has issued an offer letter and the offer letter has been accepted by one of the candidates. The offer is contingent upon clearing a criminal and civil background investigation, educational verification, verification of employment eligibility in the United States, as well as successfully passing a pre-employment physical examination and drug screening. These verifications are currently ongoing and expected to be completed by January 31, 2017. The new employee is scheduled to start with Watermaster on Tuesday, November 8, 2016.

With the new hire, the staffing level will increase from eight to nine FTE's. As mentioned above, the Watermaster FY 2016/17 staffing budget was developed and approved with ten FTE's.

August 2016:

Watermaster is currently in the process of filling one vacant position. Watermaster started the recruitment process for the Water Resources Professional position on March 16, 2016. After several candidates completed the interview process during the month of May, it was determined that a new recruitment process should begin. An updated recruitment advertisement was submitted to Brown & Caldwell and Water District Jobs on June 27, 2016. A group of new candidates were selected and scheduled for interviews between August 22, 2016 and September 1, 2016. Because Watermaster is a small organization, it is very important to ensure that the new team member not only has the right skills and abilities to succeed, it is also critical to ensure the employee has the right personality, cultural fit, and understands the challenges of working within a small organization. While some of the candidates had the experience and qualifications for the job description, the culture and personality fit was not a good match for Watermaster. As a result, the recruitment advertisement was resubmitted to Brown & Caldwell and Water District Jobs on September 19, 2016. Watermaster is reviewing all resumes as they are received for consideration. It is anticipated that the recruitment process could take an additional 45-60 days to complete the selection process, background verification, and hire the Water Resources professional.

July 2016:

Watermaster is currently in the process of filling one vacant position. Watermaster started the recruitment process for the Water Resources Professional position on March 16, 2016. After several candidates completed the interview process during the month of May, it was determined that a new recruitment process should begin. An updated recruitment advertisement was submitted to Brown & Caldwell and Water District Jobs on June 27, 2016. A group of new candidates have been selected and scheduled for interviews between August 22, 2016 and September 1, 2016. It is anticipated that the recruitment process could take an additional 30-45 days to complete the selection process, background verification, and hire the Water Resources professional.

LEGAL SERVICES

BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

CURRENT MONTH – JANUARY 2017

As of January 31, 2017, 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 \$17,870 or 3.4% above the (YTD) budgeted amount of \$520,737.

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 2016/17. 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 amount was adopted for the amount of \$871,426.

WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's) as of January 31, 2017, was \$65,267 or 49.6% above the budgeted amount of \$131,664. The specific items within the Administrative Legal Services expenses (6070's) which were under budget were the expenses for Court Coordination (6071) under budget by \$14,566 or 61.0%; Annotated Judgment (6072) under budget by \$14,594 or 83.1%; Interagency Issues (6074) under budget by \$17,850 or 100.0%; and the Party Status Maintenance (6077) under budget by \$16,740 or 100.0%. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were the Personnel Matters (6073) over budget by \$57,826 or 165.2% as a direct result of ongoing legal activities related to the administrative hearing with CalPERS regarding the Alvarez issue; and the Miscellaneous Category expenses (6078) over budget by \$71,191 or 345.3%.

Personnel Matters: As reported during the previous monthly meetings, Watermaster's legal counsel filed an appeal with CalPERS regarding CalPERS original determination (from February 2013) which rejected the base salary of the former CEO, Desi Alvarez, with regards to his retirement pension benefit. There have been several filings of appeal and we are awaiting CalPERS determination. On December 9, 2013 CalPERS notified the attorneys of record that the CalPERS Legal Office received the case on November 22, 2013 and we would be notified when the case has been assigned to an attorney who will represent CalPERS regarding the appeal. On February 27, 2014 the case was assigned to Wesley E. Kennedy, Senior Staff Attorney for CalPERS. On July 17, 2014 a document request from CalPERS was received by Watermaster related to the pending case. On August 22, 2014 the specific documents were provided to CalPERS. On September 9, 2014 Watermaster received the Notice of Hearing from CalPERS and the hearing has been scheduled for March 11-13, 2015 at the Glendale CalPERS Regional office. On October 1, 2014 Watermaster received from CalPERS a discovery request for Case No. 2013-1113. On December 31, 2014 Brownstein Hyatt Farber Schreck provided the information to Mr. Kennedy of CalPERS as requested on October 1, 2014. On January 16, 2015 a Prehearing conference along with a Settlement conference was conducted in Los Angeles. On March 2, 2015 a Motion to Continue was granted and the new Administrative Hearing (OAH Case No. 2014080757) was scheduled for November 16-18, 2015 at the Glendale CalPERS Regional Office. On September 28, 2015 the attorney for Mr. Alvarez (Mr. Jensen), at the suggestion of Mr. Kennedy, requested a short continuance of the OAH hearing because CalPERS has scheduled a full Board hearing on the claims of one of Mr. Jensen's clients for January 14, 2016 which is right in the middle of the three-day hearing scheduled for Mr. Alvarez's case. On October 9, 2015, an Order Granting Continuance; Notice of New Hearing Dates was provided by the State of California, Department of General Services, Office of Administrative Hearings. The administrative hearing was rescheduled for January 4-6, 2016 at the Glendale CalPERS Regional Office. On October 14, 2015 a Notice of Case Reassignment was received from the CalPERS providing notice that OAH Case No. 2014080757 has been reassigned from attorney Wesley Kennedy to Preet Kaur, Staff Attorney. On November 20, 2015, a Request for Continuance was issued from CalPERS to reschedule the hearing to either the period of April 4 through April 6, 2016 or April 11 through April 15, 2016. On December 11, 2015, an Order Granting Continuance; Notice of New Hearing Dates was issued from the State of California, Department of General Services, Office of Administrative Hearings to reschedule the hearing to April 11-13, 2016. The Administrative Hearing was held on April 11-13, 2016 at the Glendale CalPERS Regional Office. A ruling was scheduled for issuance by the Administrative Judge in July 2016. On June 9, 2016 a request by the CalPERS attorney to extend the deadlines for filing the opening and response briefs was submitted to the Administrative Law Judge. On June 13, 2016 the request was granted and the order now states the opening briefs shall be filed and served no later than July 11, 2016. The response briefs were filed and served no later than August 8, 2016. On September 7, 2016 the Administrative Law Judge issued his proposed decision. The proposed decision by Judge Sawyer was as follows:

1. Concluded that Mr. Alvarez's Watermaster salary did not meet the requirements of a "publicly available pay schedule"
2. Concluded that Mr. Alvarez was employed and should receive service credit for his full year at Watermaster

On November 16, 2016, the CalPERS Board of Administration decided not to adopt the Administrative Law Judge's proposed decision in the Alvarez matter and instead set the matter for a Board hearing. This was pursuant to the recommendation of Board counsel, and there was no discussion as to the rationale nor any comments from Board members. For context, however, this was the only proposed ALJ decision out of the 30 on the Board's agenda that was set for hearing rather than adopted as proposed.

The Board considered 1) whether Mr. Alvarez's salary was pursuant to a "publicly available pay schedule," 2) whether a portion of Mr. Alvarez's salary constituted severance pay, and 3) whether that severance pay was "PERSible."

The hearing was scheduled for the Board of Administration's regular meeting on December 21, 2016 at 9:00 a.m. Pursuant to CalPERS rules, the respondents were collectively allowed a 10-minute oral argument and 5-minute rebuttal, and Watermaster and Alvarez would need to share this time. Counsel had an opportunity to submit a brief written argument along the lines of what was previously submitted for the last Board of Administration meeting. This document was due Friday, December 9, 2016.

During the Board of Administration meeting on December 21, 2016 the CalPERS Board ruled 1) Mr. Alvarez's salary was not pursuant to a "publicly available pay schedule," 2) a portion of Mr. Alvarez's salary did constitute severance pay, and 3) that severance pay was not "PERSible."

Mr. Alvarez had until February 16, 2017 to decide whether or not to file a writ petition appealing the CALPERS' decision. No writ was filed.

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 January 31, 2017 was \$9,018 or 8.2% below the budgeted amount of \$109,383. 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. The Watermaster parties agreed that during the month of December 2016, the three Pools, the Advisory Committee and the Watermaster Board meetings would not be held, adding additional cost savings to this category.

OBMP LEGAL SERVICES:

The OBMP legal expenses (accounts 6907.31 through 6907.90) were below the budget for the month. As of January 31, 2017 the category of OBMP legal expenses were \$38,379 or 13.7% below the budgeted amount of \$279,690. The majority of expenses within this OBMP category were under budget (YTD), however, the Santa Ana River Habitat legal expenses (6907.36) were over budget by \$10,521 or 100.0%; the Prado Basin Habitat Sustainability legal expenses (6907.41) were over budget by \$4,023 or 48.1%; and the Safe Yield Redetermination and Reset legal expenses (6907.42) were over budget by \$77,987 or 194.9%.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of January 31, 2017 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 '16 - Jan '17 Actual	Jul '16 - Jan '17 Budget	\$ Over Budget	% of Budget	FY 2016/17 Annual Budget
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	9,322.09	23,888.00	-14,565.91	39.02%	40,950.00
6072 · BHFS Legal - Annotated Judgment	2,972.25	17,566.00	-14,593.75	16.92%	30,113.00
6073 · BHFS Legal - Personnel Matters	92,826.26	35,000.00	57,826.26	265.22%	35,000.00
6074 · BHFS Legal - Interagency Issues	0.00	17,850.00	-17,850.00	0.0%	30,600.00
6076 · BHFS Legal - Storage Issues	0.00	0.00	0.00	0.0%	0.00
6077 · BHFS Legal - Party Status Maintenance	0.00	16,740.00	-16,740.00	0.0%	28,700.00
6078 · BHFS Legal - Miscellaneous (Note 1)	91,810.66	20,620.00	71,190.66	445.25%	35,350.00
Total 6070 · Watermaster Legal Services	196,931.26	131,664.00	65,267.26	149.57%	200,713.00
6275 · BHFS Legal - Advisory Committee	9,072.85	10,200.00	-1,127.15	88.95%	18,700.00
6375 · BHFS Legal - Board Meeting	32,794.96	42,120.00	-9,325.04	77.86%	77,220.00
6375.1 · BHFS Legal - Board Workshop(s)	23,108.76	11,163.00	11,945.76	207.01%	11,163.00
8375 · BHFS Legal - Appropriative Pool	11,388.28	15,300.00	-3,911.72	74.43%	28,050.00
8475 · BHFS Legal - Agricultural Pool	12,765.28	15,300.00	-2,534.72	83.43%	28,050.00
8575 · BHFS Legal - Non-Ag Pool	11,235.29	15,300.00	-4,064.71	73.43%	28,050.00
Total BHFS Legal Services	100,365.42	109,383.00	-9,017.58	91.76%	191,233.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	14,290.00	-14,290.00	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	14,290.00	-14,290.00	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	16,740.00	-16,740.00	0.0%	28,700.00
6907.34 · Santa Ana River Water Rights	7,964.80	14,760.00	-6,795.20	53.96%	25,300.00
6907.36 · Santa Ana River Habitat	10,521.10	0.00	10,521.10	100.0%	0.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	8,370.00	-8,370.00	0.0%	14,350.00
6907.39 · Recharge Master Plan	10,399.50	32,900.00	-22,500.50	31.61%	56,400.00
6907.40 · Storage Agreements	54,491.86	63,105.00	-8,613.14	86.35%	108,180.00
6907.41 · Prado Basin Habitat Sustainability	12,393.21	8,370.00	4,023.21	148.07%	14,350.00
6907.42 · Safe Yield Recalculation	118,001.55	40,015.00	77,986.55	294.89%	68,600.00
6907.44 · SGMA Compliance	27,538.66	49,640.00	-22,101.34	55.48%	85,100.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	17,210.00	-17,210.00	0.0%	29,500.00
Total 6907 · WM Legal Counsel	241,310.68	279,690.00	-38,379.32	86.28%	479,480.00
Total Brownstein, Hyatt, Farber, Schreck Costs	538,607.36	520,737.00	17,870.36	103.43%	871,426.00

Note 1: The types of legal activities that have been charged against the "Miscellaneous" legal category account 6078 are as follows:
 (1) Correspondence and discussions with Watermaster staff regarding current issues/topics; (2) Correspondence with Watermaster staff regarding special projects (assessment package, replenishment obligations, annual report, audit report, business plan, etc.); (3) Brownstein's status review of ongoing Watermaster projects and issues; (4) Brownstein's update of the outstanding issues list; (5) Coordination of ongoing Watermaster projects; (6) Review of draft documents; (7) Review transfer documents; (8) Ground-Level Monitoring Committee reports/meetings; (9) Review process and criteria for SGMA reporting; (10) Review current California issued drought regulations; (11) Review and comment on Waters of the United States rule making; (12) Review and draft documents for basin boundary regulations; (13) September 13, 2016 Workshop on Watermaster committees and Board roles; (14) Chino Basin water bank discussions; and (15) Miscellaneous legal research on current and pending issues.

OBMP ENGINEERING SERVICES AND LEGAL COSTS

CURRENT MONTH – JANUARY 2017

Reviewing in total the OBMP Engineering Services and Legal Costs (consolidating the four categories of OBMP Watermaster Staff and SAWPA, OBMP Engineering Services, OBMP Legal Costs, and OBMP Other Expenses) for the seven months ending January 31, 2017, the actual expenses of \$906,198 were below the budgeted amount of \$971,730 by \$65,532 or 6.7%. For a detailed discussion, the following is provided.

For January 31, 2017, the accounts 6901-6903 (Optimum Basin Mgmt Program) section was above the Year-To-Date (YTD) budget by \$7,511 or 17.4%. 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 slightly more time on specific OBMP related areas and less time on other related tasks. As a result, Watermaster staff allocated more actual time to the OBMP project as budgeted, which resulted in an over budget variance of 2,596 or 8.8%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2016/17 Basin Monitoring Program Task Force Contribution which was budgeted at \$13,500 but actual expenses were billed at \$18,415 which was above the budget by \$4,915 or 36.4% as of January 31, 2017.

For January 31, 2017, the accounts 6906 (Optimum Basin Mgmt Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$31,550 or 4.9%. For FY 2016/17, the OBMP-Safe Yield Redetermination and Reset expenses (6906.73) did not have a budget amount authorized and for the month of January, there were no expenses charged to the OBMP-Safe Yield Redetermination and Reset account. The majority of expenses within this OBMP category were under budget (YTD), however, the accounts which were over budget were as follows: the OBMP-Watermaster Model Update expenses (6906.1) which were over budget by \$81,688 or 79.4%; the SGMA Reporting Requirement expenses (6906.23) which were over budget by \$1,171 or 7.1%; the OBMP-Pool, Advisory, Board Meeting Engineering Services expenses (6906.31) which were over budget by \$5,889 or 10.5%; the OBMP-Other General Meetings Engineering Services expenses (6906.32) which were over budget by \$36,014 or 171.3%; the OBMP-Data Requests-CBWM Staff Engineering Services expenses (6906.71) which were over budget by \$76,995 or 144.8%; the OBMP-Data Requests-Non Watermaster Staff expenses (6906.72) which were over budget by \$3,895 or 21.3%; and the Preparation of the 38th/39th Annual Reports which were over budget by \$14,556 or 41.8%.

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 \$92,531 while some other line item activities were below the budget by \$130,910. Above the budget line items were the Santa Ana River Habitat expenses of \$10,521; the Prado Basin Habitat Sustainability expenses of \$4,023; and the Safe Yield Redetermination and Reset expenses of \$77,987. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$14,290; the Chino Airport Plume of \$14,290; the Desalter/Hydraulic Control of \$16,740; the Santa Ana River Water Rights expenses of \$6,795; the Regional Water Quality Control Board of \$8,370; the Recharge Master Plan of \$22,501; Storage Agreements of \$8,613; the SGMA Compliance of \$22,101; and the WM Unanticipated legal expenses of \$17,210. For the seven months ended January 31, 2017, the overall cumulative (YTD) budget was \$279,690 and the actual (BHFS) legal expenses totaled \$241,311 which resulted in an under budget variance of \$38,379 or 13.7%.

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 January 31, 2017 this category of expenses was \$3,114 or 35.7% below the budgeted amount of \$8,710.

The WEI Support for IEUA expenses are categorized within the category (6910's). The individual general ledger accounts are as follows: IRP Groundwater Modeling-WEI expenses (6910.10); As Needed Support for Obtaining Grant Funding of RMPU Projects expenses (6910.11); Preparation of a Compliance Demonstration for Stormwater Recharge expenses (6910.12); Ground Water Velocity Field for the San Sevaime Improvement Project expenses (6910.13); Truing-Up the 2013 RMPU Estimates expenses (6910.14); and RMPU-MPI Analysis expenses (6910.20). These expenses are billed directly to IEUA on the following month once the payment has been issued to Wildermuth Environmental, Inc. per the agreement. As of January 31, 2017 this category of expenses was fully invoiced in the amount of \$190,392 to IEUA.

Overall, the Optimum Basin Management Program (OBMP) category was \$906,198 compared to a (YTD) budget of \$971,730 for an under budget of \$65,532 or 6.7% as of January 31, 2017.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of January 31, 2017 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 '16 - Jan '17 Actual	Jul '16 - Jan '17 Budget	\$ Over Budget	% of Budget	FY 2016/17 Annual Budget
6900 · Optimum Basin Mgmt Plan					
6901 · WM Staff Salaries	32,240.25	29,644.00	2,596.25	108.76%	50,114.00
6903 · OBMP SAWPA Group	18,415.00	13,500.00	4,915.00	136.41%	13,500.00
Total 6901-6903 · OBMP WM Staff/SAWPA	50,655.25	43,144.00	7,511.25	117.41%	63,614.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	184,622.60	102,935.00	81,687.60	179.36%	176,460.00
6906.21 · State of the Basin Report	22,605.60	58,335.00	-35,729.40	38.75%	100,000.00
6906.22 · Water Rights Compliance Reporting	10,599.60	14,763.00	-4,163.40	71.8%	25,308.00
6906.23 · SGMA Reporting Requirements	17,526.48	16,355.00	1,171.48	107.16%	28,040.00
6906.24 · Compliance - SB88 and SWRCB	33,068.91	43,750.00	-10,681.09	75.59%	75,000.00
6906.25 · Initial Assessment - Section 4.5-SYRA	0.00	124,680.00	-124,680.00	0.0%	213,740.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	61,955.27	56,066.00	5,889.27	110.5%	96,114.00
6906.32 · OBMP - Other General Meetings	57,038.88	21,025.00	36,013.88	271.29%	36,045.00
6906.71 · OBMP - Data Requests - CBWM Staff	130,171.12	53,176.00	76,995.12	244.79%	91,156.00
6906.72 · OBMP - Data Requests - Non CBWM	22,183.05	18,288.00	3,895.05	121.3%	31,348.00
6906.73 · OBMP - Safe Yield Recalculation	0.00	0.00	0.00	0.0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	3,703.10	40,835.00	-37,131.90	9.07%	70,000.00
6906.75 · OBMP - Recharge Master Plan	0.00	0.00	0.00	0.0%	0.00
6906.81 · Prepare 38th/39th Annual Reports	49,373.98	34,818.00	14,555.98	141.81%	59,688.00
6906.82 · Support for Assessment Package	0.00	38,500.00	-38,500.00	0.0%	66,000.00
6906 · OBMP Engineering Services - Other	15,787.10	16,660.00	-872.90	94.76%	28,560.00
Total 6906 · OBMP Engineering Services	608,635.69	640,186.00	-31,550.31	95.07%	1,097,459.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	14,290.00	-14,290.00	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	14,290.00	-14,290.00	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	16,740.00	-16,740.00	0.0%	28,700.00
6907.34 · Santa Ana River Water Rights	7,984.80	14,760.00	-6,795.20	53.96%	25,300.00
6907.36 · Santa Ana River Habitat	10,521.10	0.00	10,521.10	100.0%	0.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	8,370.00	-8,370.00	0.0%	14,350.00
6907.39 · Recharge Master Plan	10,399.50	32,900.00	-22,500.50	31.61%	56,400.00
6907.40 · Storage Agreements	54,491.86	63,105.00	-8,613.14	86.35%	108,180.00
6907.41 · Prado Basin Habitat Sustainability	12,393.21	8,370.00	4,023.21	148.07%	14,350.00
6907.42 · Safe Yield Recalculation	118,001.55	40,015.00	77,986.55	294.89%	68,600.00
6907.44 · SGMA Compliance	27,538.66	49,640.00	-22,101.34	55.48%	85,100.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	17,210.00	-17,210.00	0.0%	29,500.00
Total 6907 · WM Legal Counsel	241,310.68	279,690.00	-38,379.32	86.28%	479,480.00
Total 6907 · OBMP Legal Fees	241,310.68	279,690.00	-38,379.32	86.28%	479,480.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	1,829.27	875.00	954.27	209.06%	1,500.00
6909.3 · Other OBMP Expenses	1,697.00	2,000.00	-303.00	84.85%	2,000.00
6909.6 · OBMP Expenses - Miscellaneous	2,070.00	5,835.00	-3,765.00	35.48%	10,000.00
Total 6909 · OBMP Other Expenses	5,596.27	8,710.00	-3,113.73	64.25%	13,500.00
6910 · WEI Support for IEUA					
6910.10 · IRP Groundwater Modeling - WEI	0.00	0.00	0.00	0.0%	0.00
6910.11 · WEI Support-Grant Funding-RMPU	5,002.23	0.00	5,002.23	100.0%	0.00
6910.12 · WEI Support-Stormwater Recharge	0.00	0.00	0.00	0.0%	0.00
6910.13 · IEUA-San Sevaine Improvement Project	792.00	0.00	792.00	100.0%	0.00
6910.14 · Truing-Up 2013 RMPU Estimates	85,058.70	0.00	85,058.70	100.0%	0.00
6910.20 · RMPU-MPI Analysis	99,539.03	0.00	99,539.03	100.0%	0.00
6910.50 · WEI Support for IEUA-Billings	-190,391.96	0.00	-190,391.96	100.0%	0.00
Total 6910 · WEI Support for IEUA	0.00	0.00	0.00	0.0%	0.00
Total 6900 · Optimum Basin Mgmt Plan	906,197.89	971,730.00	-65,532.11	93.26%	1,654,053.00

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

CURRENT MONTH – JANUARY 2017

As of January 31, 2017, the total (YTD) Engineering Services expenses were \$496,032 or 25.6% below the (YTD) budget amount of \$1,937,660. The OBMP Implementation Projects (consolidated accounts 7100's – 7700's) were all under budget as of January 31, 2017.

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.

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

The third ECAC report is scheduled to be issued in mid-May 2017 for the period July 2016 through March 2017.

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 January 31, 2017. 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 '16 - Jan '17	Jul '16 - Jan '17			FY 2016/17
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6906 · OBMP Engineering Services - Other	15,787.10	16,660.00	-872.90	94.76%	28,560.00
6906.1 · OBMP - Watermaster Model Update	184,622.60	102,935.00	81,687.60	179.36%	176,460.00
6906.21 · State of the Basin Report	22,605.60	58,335.00	-35,729.40	38.75%	100,000.00
6906.22 · Water Rights Compliance Reporting	10,599.60	14,763.00	-4,163.40	71.8%	25,308.00
6906.23 · SGMA Reporting Requirements	17,526.48	16,355.00	1,171.48	107.16%	28,040.00
6906.24 · Compliance - SB88 and SWRCB	33,068.91	43,750.00	-10,681.09	75.59%	75,000.00
6906.25 · Initial Assessment - Section 4.5-SYRA	0.00	124,680.00	-124,680.00	0.0%	213,740.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.	61,955.27	56,066.00	5,889.27	110.5%	96,114.00
6906.32 · OBMP - Other General Meetings	57,038.88	21,025.00	36,013.88	271.29%	36,045.00
6906.71 · OBMP - Data Requests - CBWM Staff	130,171.12	53,176.00	76,995.12	244.79%	91,156.00
6906.72 · OBMP - Data Requests - Non CBWM	22,183.05	18,288.00	3,895.05	121.3%	31,348.00
6906.74 · OBMP - Mat'l Physical Injury Requests	3,703.10	40,835.00	-37,131.90	9.07%	70,000.00
6906.81 · Prepare 38th/39th Annual Reports	49,373.98	34,818.00	14,555.98	141.81%	59,688.00
6906.82 · Support for Assessment Package	0.00	38,500.00	-38,500.00	0.0%	66,000.00
7103.3 · Grdwtr Qual-Engineering	69,674.70	78,575.00	-8,900.30	88.67%	129,555.00
7103.5 · Grdwtr Qual-Lab Svcs	44,992.06	39,205.00	5,787.06	114.76%	39,205.00
7104.3 · Grdwtr Level-Engineering	92,644.85	112,389.00	-19,744.15	82.43%	192,667.00
7104.8 · Grdwtr Level-Contracted Services	0.00	5,835.00	-5,835.00	0.0%	10,000.00
7104.9 · Grdwtr Level-Capital Equipment	0.00	4,085.00	-4,085.00	0.0%	7,000.00
7107.2 · Grd Level-Engineering	23,376.24	30,650.00	-7,273.76	76.27%	52,540.00
7107.3 · Grd Level-SAR Imagery	29,000.00	42,500.00	-13,500.00	68.24%	85,000.00
7107.6 · Grd Level-Contract Svcs	10,868.05	58,447.00	-47,578.95	18.6%	100,197.00
7107.8 · Grd Level-Capital Equipment	0.00	2,040.00	-2,040.00	0.0%	3,500.00
7108.3 · Hydraulic Control-Engineering	16,398.27	33,604.00	-17,205.73	48.8%	57,607.00
7108.31 · Hydraulic Control-PBHSP	219,264.56	173,576.00	45,688.56	126.32%	288,936.00
7108.32 · Hydraulic Control-Adaptive Mgmt Plan	0.00	50,000.00	-50,000.00	0.0%	50,000.00
7108.4 · Hydraulic Control-Lab Svcs	4,464.00	14,631.00	-10,167.00	30.51%	25,081.00
7108.41 · Hydraulic Control-PBHSP	20,096.00	28,711.00	-8,615.00	69.99%	49,216.00
7108.6 · Hydraulic Control-Outside Professionals	0.00	37,915.00	-37,915.00	0.0%	65,000.00
7109.3 · Recharge & Well - Engineering	4,251.50	13,603.00	-9,351.50	0.0%	23,318.00
7202.2 · Comp Recharge-Engineering Services	56,315.82	93,926.00	-37,610.18	59.96%	161,016.00
7303 · PE3&5-Engineering - Other	0.00	5,530.00	-5,530.00	0.0%	9,480.00
7402 · PE4-Engineering	57,180.94	54,372.00	2,808.94	105.17%	88,212.00
7402.10 · PE4-MZ1 Pomona Project	164,587.74	318,519.00	-153,931.26	51.67%	362,104.00
7403 · PE4-Contract Svcs	0.00	35,000.00	-35,000.00	0.0%	60,000.00
7502 · PE6&7-Engineering	9,216.80	25,340.00	-16,123.20	36.37%	43,440.00
7602 · PE8&9-Engineering	10,661.19	39,021.00	-28,359.81	27.32%	66,896.00
Total Engineering Services Costs	1,441,628.41	1,937,660.00	-496,031.59	74.4%	3,067,429.00 *

* Wildermuth and Subcontractor Engineering Budget of \$2,740,852 plus Carryover Funds from FY 2015/16 of \$326,577 = \$3,067,429
Carryover Funds from FY 2015/16 of \$326,577 = \$12,072 (7108.31); \$50,000 (7108.32); \$7,000 (7402); and \$257,505 (7402.10)

PREVIOUSLY REPORTED ACTIONS (Descending Order)

December 2016:

The second ECAC report for the current fiscal year has been provided for the period ending December 31, 2016 and shows a projected under budget at fiscal year-end June 30, 2017 of \$180,130. The majority of the budget underage is projected in OBMP Engineering (6906's) and OBMP-Engineering Services-MZ1 (7402). There are also some activities that are projected to be over budget at fiscal year-end. To see the complete July 1, 2016 through December 31, 2016 ECAC report, click on the following link:

<http://www.cbwm.org/FTP/ECAC%20Reports/2016-17%202nd%20Quarter%20Review%20and%20ECAC-070116%20to%20123116.pdf>

Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2016/17
As of December 31, 2016

Acct #	Description	Original Budget	Revised Budget	Billed Jul-16	Billed Aug-16	Billed Sep-16	Billed Oct-16	Billed Nov-16	Billed Dec-16	Projected Jan-17
6906	OBMP Engineering	\$ 820,999	\$ 820,999	\$ 76,132	\$ 80,675	\$ 56,609	\$ 65,634	\$ 34,589	\$ 32,474	\$ 60,371
6906.1	OBMP - Watermaster Model Applications	176,460	176,460	2,359	23,757	10,948	26,993	27,727	31,932	30,000
6906.21	State of the Basin Report	100,000	100,000	-	-	-	-	8,185	7,918	9,000
6910.11	IEUA - As-Need Support for Obtaining Grant Funding of RMPU Projects	-	-	2,980	2,022	-	-	-	-	500
6910.13	IEUA - GW Velocity Field - San Savaire Basin Improvement Project	-	-	644	149	-	-	-	-	-
6910.14	IEUA - Truing-Up 2013 RMPU Recharge Estimates	-	-	-	48,210	17,017	15,520	4,312	-	-
6910.20	IEUA - MPI Analysis for RMPU	-	-	-	2,192	34,432	24,156	21,250	17,509	-
7103.3	GW Quality - Engineering Services	129,555	129,555	16,738	14,493	14,423	3,217	5,558	8,416	4,700
7103.5	GW Quality - Laboratory Services	39,205	39,205	1,346	10,623	6,968	848	3,380	5,697	-
7104.3	GW Level - Engineering Services	192,667	192,667	8,788	23,979	10,748	7,503	16,170	8,484	18,085
7104.8	GW Level - Contract Services	10,000	10,000	-	-	-	-	-	-	-
7104.9	GW Level - Capital Services	7,000	7,000	-	1,232	474	1,787	455	122	-
7107.2	Ground Level - Engineering Services	84,492	84,492	4,591	2,880	1,440	4,289	2,525	3,334	11,893
7107.3	Ground Level - SAR Imagery	85,000	85,000	-	-	-	12,000	-	-	17,000
7107.6	Ground Level - Contract Services	68,245	68,245	-	-	-	-	-	-	43,077
7107.8	Ground Level - Capital Equipment	3,500	3,500	-	-	-	-	229	-	-
7108.3	HCMP - Engineering Services	57,607	57,607	2,052	7,968	1,668	2,459	-	-	3,564
7108.4	HCMP - Lab Services	25,081	25,081	2,032	13,408	-	2,432	-	-	2,032
7108.31	HCMP - Eng. Serv. - PBHSP	276,864	288,936	-	30,360	20,176	25,000	5,153	6,351	59,300
7108.32	HCMP - Adaptive Management Plan	-	50,000	-	6,981	6,966	4,429	5,833	19,081	5,550
7108.41	HCMP - Lab. Serv. - PBHSP	49,216	49,216	-	-	11,304	-	-	11,304	-
7108.6	HCMP - Eng. Serv. - PBHSP - Outside Pro	65,000	65,000	-	-	40,000	-	-	-	8,000
7109.3	Recharge & Well Monitoring - Engineering Serv.	23,318	23,318	-	2,171	-	-	2,080	-	-
7202.2	Comp Recharge - Engineering Services	161,016	161,016	17,889	7,199	3,298	10,324	6,356	780	10,368
7303	OBMP - Engineering Services - Desalters	9,480	9,480	-	-	-	-	-	-	-
7402	OBMP - Engineering Services - MZI	111,212	118,212	10,405	14,026	21,782	1,739	510	2,021	11,000
7402.1	OBMP - Engineering Services - Northwest MZ1	104,599	362,104	11,553	27,005	24,465	53,179	23,497	11,433	36,250
7403	OBMP - Contract Services - MZ1	30,000	30,000	500	-	-	-	-	-	-
7502	OBMP - Engineering Services - VWQC	43,440	43,440	1,405	-	1,274	4,298	1,170	601	2,000
7602	OBMP - Engineering Services - Storage	66,896	66,896	-	1,579	5,374	1,518	-	-	30,000
Totals		\$ 2,740,852	\$ 3,067,429	\$ 159,413	\$ 320,927	\$ 289,387	\$ 267,504	\$ 168,979	\$ 167,436	\$ 362,690

1/26/2017--9:23 AM
2016-17CBWM_Invoice_Summary_ISBM_20170105--Projection Summary



Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2016/17
As of December 31, 2016

Acct #	Description	Projected Feb-17	Projected Mar-17	Projected Apr-17	Projected May-17	Projected Jun-17	Total Projected	Less IEUA Portion of Cost Share			
								Total Projected	Under / (Over) Rev. Budget	YTD % Billed Rev. Budget	Projected % Rev. Budget
6906	OBMP Engineering	\$ 61,071	\$ 49,171	\$ 38,904	\$ 30,471	\$ 27,971	\$ 614,273	\$ 614,273	\$ 206,726	42%	75%
6906.1	OBMP - Watermaster Model Applications	20,000	-	-	-	-	173,716	173,716	2,744	70%	98%
6906.2	State of the Basin Report	20,000	25,000	30,000	25,000	24,230	149,333	149,333	(49,333)	16%	149%
6910.11	IEUA - As-Need Support for Obtaining Grant Funding of RMPU Projects	-	-	-	-	-	5,502	2,751	(2,751)	n/a	n/a
6910.13	IEUA - GW Velocity Field - San Savaine Basin Improvement Project	-	-	-	-	-	792	396	(396)	n/a	n/a
6910.14	IEUA - Truing-Up 2013 RMPU Recharge Estimates	-	-	-	-	-	65,059	42,530	(42,530)	n/a	n/a
6910.2	IEUA - MPI Analysis for RMPU	-	-	-	-	-	99,539	49,770	(49,770)	n/a	n/a
7103.3	GW Quality - Engineering Services	15,850	14,000	5,000	-	14,000	116,394	116,394	13,161	49%	90%
7103.5	GW Quality - Laboratory Services	626	-	-	-	-	29,668	29,668	9,517	74%	76%
7104.3	GW Level - Engineering Services	16,853	11,903	17,603	17,103	13,698	170,920	170,920	21,747	39%	89%
7104.8	GW Level - Contract Services	-	-	-	10,000	-	10,000	10,000	-	0%	100%
7104.9	GW Level - Capital Services	-	-	-	-	3,500	-	7,549	(549)	58%	108%
7107.2	Ground Level - Engineering Services	4,666	16,236	6,993	1,466	23,466	83,779	83,779	713	23%	99%
7107.3	Ground Level - SAR Imagery	-	56,000	-	-	-	85,000	85,000	-	14%	100%
7107.6	Ground Level - Contract Services	21,572	-	1,700	300	1,596	68,245	68,245	0	0%	100%
7107.8	Ground Level - Capital Equipment	-	-	1,000	-	-	1,229	1,229	2,271	7%	35%
7108.3	HCMP - Engineering Services	12,330	18,100	10,815	830	-	59,814	59,814	(2,207)	25%	104%
7108.4	HCMP - Lab Services	-	-	2,032	-	-	21,936	21,936	3,145	71%	87%
7108.31	HCMP - Eng. Serv. - PBHSP	45,100	35,400	23,200	15,100	18,527	283,658	283,658	5,278	30%	98%
7108.32	HCMP - Adaptive Management Plan	-	-	-	-	-	48,839	48,839	1,161	87%	98%
7108.41	HCMP - Lab. Serv. - PBHSP	-	12,304	-	-	12,304	47,216	47,216	2,000	46%	96%
7108.6	HCMP - Eng. Serv. - PBHSP - Outside Pro	-	-	-	-	-	48,000	48,000	17,000	62%	74%
7109.3	Recharge & Well Monitoring - Engineering Serv.	3,000	-	-	9,000	3,000	19,252	19,252	4,067	18%	83%
7202.2	Comp Recharge - Engineering Services	17,555	15,055	15,055	17,555	15,055	136,470	136,470	24,546	29%	85%
7303	OBMP - Engineering Services - Desalters	1,000	1,000	1,000	1,000	1,000	5,000	5,000	4,480	0%	53%
7402	OBMP - Engineering Services - MZ1	18,600	23,000	7,750	12,568	19,100	142,490	142,490	(24,276)	43%	121%
7402.1	OBMP - Engineering Services - Northwest MZ1	28,731	26,750	65,390	17,000	17,591	342,863	342,863	19,241	42%	95%
7403	OBMP - Contract Services - MZ1	18,371	-	10,000	-	-	28,871	28,871	1,129	2%	96%
7502	OBMP - Engineering Services - WQC	3,620	3,620	3,620	-	3,620	28,848	28,848	14,592	20%	66%
7602	OBMP - Engineering Services - Storage	30,000	-	-	-	-	68,471	68,471	(1,575)	13%	102%
Totals		\$ 339,145	\$ 307,539	\$ 240,063	\$ 161,003	\$ 198,659	\$ 2,982,745	\$ 2,887,299	\$ 180,130	45%	97%

Note: Billed includes MMH Laboratory invoices paid directly by Watermaster.

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

The third ECAC report is scheduled to be issued in mid-May 2017 for the period July 2016 through March 2017.

November 2016:

The first ECAC report for the current fiscal year has been provided for the period ending September 30, 2016 and shows a projected over budget at fiscal year-end June 30, 2017 of \$35,859. The majority of the budget overage is projected in OBMP Engineering (6906's) and OBMP-Engineering Services-MZ1 (7402). There are also some activities that are projected to be under budget at fiscal year-end. To see the complete July 1, 2016 through September 30, 2016 ECAC report, click on the following link:

<http://www.cbwm.org/FTP/ECAC%20Reports/2016-17%201st%20Quarter%20Review%20and%20ECAC-070116%20to%20093016.pdf>

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

The second ECAC report is scheduled to be issued in mid-February 2017 for the period July 2016 through December 2016.

October 2016:

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 ECAC report for the current fiscal year has been provided for the period ending September 30, 2016 and shows a projected over budget at fiscal year-end June 30, 2017 of \$35,859. The majority of the budget overage is projected in OBMP Engineering (6906's) and OBMP-Engineering Services-MZ1 (7402). There are also some activities that are projected to be under budget at fiscal year-end. Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

The second ECAC report is scheduled to be issued in mid-February 2017 for the period July 2016 through December 2016.

Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2016/17
As of September 30, 2016

Acct #	Description	Original Budget	Revised Budget	Billed Jul-16	Billed Aug-16	Billed Sep-16	Projected Oct-16	Projected Nov-16	Projected Dec-16	Projected Jan-17
6906	OBMP Engineering	\$ 820,999	\$ 820,999	\$ 79,112	\$ 84,890	\$ 91,041	\$ 89,694	\$ 75,571	\$ 43,233	\$ 66,071
6906.1	OBMP - Watermaster Model Applications	176,460	176,460	2,359	23,757	10,948	27,000	14,050	14,050	14,050
6906.21	State of the Basin Report	100,000	100,000	-	-	-	-	12,000	8,000	20,000
7103.3	GW Quality - Engineering Services	129,555	129,555	16,738	14,493	14,423	2,871	4,350	9,500	10,803
7103.5	GW Quality - Laboratory Services	39,205	39,205	1,346	10,623	6,968	848	7,500	8,500	3,420
7104.3	GW Level - Engineering Services	192,667	192,667	8,788	23,979	10,748	7,555	19,185	16,385	18,785
7104.8	GW Level - Contract Services	10,000	10,000	-	-	-	-	-	-	-
7104.9	GW Level - Capital Services	7,000	7,000	-	1,232	474	1,800	5	-	-
7107.2	Ground Level - Engineering Services	84,492	84,492	4,591	2,880	1,440	4,180	2,500	10,700	13,293
7107.3	Ground Level - SAR Imagery	85,000	85,000	-	-	-	12,000	-	-	17,000
7107.6	Ground Level - Contract Services	68,245	68,245	-	-	-	-	202	15,300	30,300
7107.8	Ground Level - Capital Equipment	3,500	3,500	-	-	-	-	-	2,000	-
7108.3	HCMP - Engineering Services	57,607	57,607	2,052	7,996	1,668	2,459	200	100	3,874
7108.4	HCMP - Lab Services	25,081	25,081	2,032	13,408	-	2,432	-	-	2,032
7108.31	HCMP - Eng. Serv. - PBHSP	276,864	288,936	-	30,350	20,176	24,700	23,550	45,056	41,755
7108.32	HCMP - Adaptive Management Plan	-	50,000	-	6,981	6,966	4,500	18,650	14,956	-
7108.41	HCMP - Lab. Serv. - PBHSP	49,216	49,216	-	-	11,304	-	-	12,304	-
7108.6	HCMP - Eng. Serv. - PBHSP - Outside Pro	65,000	65,000	-	-	40,000	-	6,600	-	-
7109.3	Recharge & Well Monitoring - Engineering Serv.	23,318	23,318	-	2,171	-	-	2,700	-	-
7202.2	Comp Recharge - Engineering Services	181,016	181,016	17,889	7,199	3,298	9,898	12,208	12,208	16,114
7303	OBMP - Engineering Services - Desalters	9,480	9,480	-	-	-	250	1,150	1,150	1,150
7402	OBMP - Engineering Services - MZ1	111,212	118,212	10,405	14,026	21,782	1,600	9,600	9,600	600
7402.1	OBMP - Engineering Services - Northwest MZ1	104,599	362,104	11,553	27,005	24,485	53,303	44,000	40,750	40,250
7403	OBMP - Contract Services - MZ1	30,000	30,000	500	-	-	-	15,000	9,500	-
7502	OBMP - Engineering Services - WQC	43,440	43,440	1,405	-	1,274	4,500	3,520	3,620	3,520
7602	OBMP - Engineering Services - Storage	66,896	66,896	-	1,578	5,374	1,500	7,305	7,305	7,305
Totals		\$ 2,740,862	\$ 3,067,429	\$ 158,769	\$ 272,569	\$ 272,370	\$ 251,090	\$ 279,947	\$ 284,218	\$ 310,422



Attachment 1a
Chino Basin Watermaster: Invoice Projections for Engineering Tasks for Fiscal Year 2016/17
As of September 30, 2016

Acct #	Description	Projected Feb-17	Projected Mar-17	Projected Apr-17	Projected May-17	Projected Jun-17	Total Projected	Under / (Over) Rev. Budget	YTD % Billed Rev. Budget	Projected % Rev. Budget
6906	OBMP Engineering	\$ 62,162	\$ 65,531	\$ 69,171	\$ 67,771	\$ 64,171	\$ 677,419	\$ (56,420)	31%	107%
6906.1	OBMP - Watermaster Model Applications	14,050	14,050	14,050	14,050	14,050	175,460	-	21%	100%
6906.21	State of the Basin Report	20,000	20,000	20,000	-	-	100,000	-	0%	100%
7103.3	GW Quality - Engineering Services	18,200	12,110	4,386	-	15,000	122,874	6,681	35%	95%
7103.5	GW Quality - Laboratory Services	-	-	-	-	-	39,205	-	48%	100%
7104.3	GW Level - Engineering Services	17,353	13,603	19,853	17,603	15,260	189,100	3,567	23%	98%
7104.8	GW Level - Contract Services	-	-	-	10,000	-	10,000	-	0%	100%
7104.9	GW Level - Capital Services	-	-	-	-	5,200	8,712	(1,712)	24%	124%
7107.2	Ground Level - Engineering Services	4,700	20,148	16,793	1,500	1,500	84,224	268	11%	100%
7107.3	Ground Level - SAR Imagery	-	55,000	-	-	-	85,000	-	0%	100%
7107.6	Ground Level - Contract Services	300	19,949	300	300	1,596	68,245	-	0%	100%
7107.8	Ground Level - Capital Equipment	-	1,000	-	-	-	3,000	500	0%	86%
7108.3	HCMP - Engineering Services	12,190	14,990	11,813	730	1,026	59,098	(1,491)	20%	103%
7108.4	HCMP - Lab Services	-	-	2,032	-	-	21,936	3,145	62%	87%
7108.31	HCMP - Eng. Serv. - PBHSP	31,030	30,086	12,713	13,441	14,602	287,459	1,477	17%	99%
7108.32	HCMP - Adaptive Management Plan	-	-	-	-	-	52,052	(2,052)	28%	104%
7108.41	HCMP - Lab. Serv. - PBHSP	-	12,304	-	-	12,304	48,216	1,000	23%	98%
7108.6	HCMP - Eng. Serv. - PBHSP - Outside Pro	-	-	-	-	-	46,600	18,400	62%	72%
7109.3	Recharge & Well Monitoring - Engineering Serv.	3,200	-	-	9,000	5,118	22,189	1,129	9%	95%
7202.2	Comp Recharge - Engineering Services	16,114	16,114	16,114	16,114	16,114	159,366	1,630	18%	99%
7303	OBMP - Engineering Services - Desalters	1,150	1,150	1,150	1,150	1,150	9,450	30	0%	100%
7402	OBMP - Engineering Services - MZ1	13,000	23,000	7,750	12,558	19,100	143,021	(24,809)	39%	121%
7402.1	OBMP - Engineering Services - Northwest MZ1	20,750	23,790	39,750	14,000	15,591	355,227	6,877	17%	98%
7403	OBMP - Contract Services - MZ1	-	-	5,000	-	-	30,000	-	2%	100%
7502	OBMP - Engineering Services - WQC	3,620	3,620	3,620	5,000	3,620	37,519	5,921	6%	86%
7602	OBMP - Engineering Services - Storage	7,305	7,305	7,305	7,305	7,305	65,896	(0)	10%	100%
Totals		\$ 246,124	\$ 374,750	\$ 250,800	\$ 190,622	\$ 212,708	\$ 3,183,288	\$ (35,859)	80%	101%

Note: Billed includes MWH Laboratory invoices paid directly by Watermaster.

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July 2016:

The approved "Original" Engineering Services budget of \$2,740,852 was increased by "Carry Over" funding in the amount of \$326,577 to the "Amended" amount of \$3,067,429 for FY 2016/17 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 2016/17 timeframe or future years. The Carry-Over amount of \$326,577 from FY 2015/16 to the FY 2016/17 budget are provided in detail as follows:

1. The ongoing Adaptive Management Plan for the Prado Basin Habitat Sustainability Program in connection with the vegetation monitoring database in HydroDaVE (account 7108.31 in the amount of \$12,072). This work was originally scoped for FY 2015/16 but was not performed because the Adaptive Management Plan was not finalized and adopted by Watermaster in FY 2015/16.
2. Preparation of the Final PBHSP Adaptive Management Plan and the 2016 PBHSP Annual Report (account 7108.32 in the amount of \$50,000). The Adaptive Management Plan for the PBHSP was not finalized during FY 2015/16 and as a result, the initial Annual Report was not completed. The scope for preparing the 2016 Annual Report in FY 2016/17 was based on the assumption that the initial 2015 Annual Report of the PBHSP would have already been completed.
3. The finalization of the 2015 Annual Report of the Ground-Level Monitoring Committee (account 7402 in the amount of \$7,000). The Annual Report has been delayed primarily because the InSAR and ground-level survey data were delivered in March, which delayed the report and completion. The report will be finalized in FY 2016/17.

4. Three separate subtasks for the effort to develop a Subsistence Management Plan for the Northwest MZ-1 Area which is a 5-6 year effort (account 7402.1 in the amount of \$257,505) which will be performed in sequential phases. Some of the early phases of the work have been delayed for various reasons (e.g. delays in initiation of the monitoring program because of difficulties in coordination with well owners). These delays push some of the work that was expected to be completed in FY 2015/16 to FY 2016/17, including subtasks associated with setup and initiation of the monitoring program, siting of extensometers, modeling, and reporting.

The breakdown of the total Task Order amount of \$2,740,852 includes direct labor costs for Wildermuth Environmental, Inc. (82.6%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (17.4%).

PRADO BASIN HABITAT SUSTAINABILITY PROGRAM

The Prado Basin Habitat Sustainability Program came about as a result of the Peace II Agreement SEIR mitigation measure 4.4-3 and was adopted by IEUA's Board in October, 2010. The purpose of the mitigation measure is to ensure that the Prado Basin riparian habitat will not be impacted by Hydraulic Control. The basic program tasks are to convene a committee that will develop this adaptive management plan, to install necessary monitoring wells, to complete vegetation and aerial surveys, and to implement photo station monitoring. In terms of the financial aspects of this program, there is a cost sharing agreement, which was approved by the Watermaster Board in September, 2012 for a total budget of \$440,000. The cost sharing agreement between IEUA and Watermaster was increased from \$220,000 to \$300,000 effective August 22, 2013 with the approval of the Watermaster Board. The increase from \$220,000 to \$300,000 was to reflect a change in the consultant preparing the Adaptive Management Plan. On August 25, 2016, the cost sharing agreement between IEUA and Watermaster was increased from \$300,000 to \$385,000 (\$770,000 x 50% = \$385,000) with the approval of the Watermaster Board. A number of issues associated with the drilling of the monitoring wells (unavailable locations requiring negotiation of new easements, nesting season limitations, etc.), increased the cost of the construction of the 16 wells. The majority of the additional costs were due to extended construction management, additional easement fees, and environmental reporting for the pre- and during construction time period. The associated increase in cost was \$170,000, changing the total amount from \$600,000 to \$770,000.

This is a 50/50 cost sharing agreement between Watermaster and IEUA with a not to exceed amount of \$385,000 for each party. Included in that cost is hiring a consultant to develop the adaptive management plan, WEI performing the project management tasks related to the monitoring well installation, hiring a contractor to construct and install up to seventeen monitoring wells at nine separate sites, and United States Bureau of Reclamation performing vegetation monitoring every three years. Grants have been applied for to offset the cost of this program; however, the Grants were not approved.

The process of invoicing IEUA for their 50% portion of the (WEI) invoices will be completed by Watermaster staff at the end of every quarter. The information listed below is provided for the period of May 1, 2012 through January 31, 2017:

	Wildermuth Environmental, Inc.	50% Billing "TO" IEUA	50% Billing "FROM" IEUA	Costs For Watermaster	Watermaster Staff "Hours"	Watermaster Staff "Costs"
May 2012 - Jun. 2012	\$ 11,143.75	\$ (5,571.88)	\$ -	\$ 5,571.87	4.00	\$ 411.38
Jul. 2012 - Jun. 2013	\$ 120,945.28	\$ (60,472.65)	\$ 6,275.92	\$ 66,748.55	73.00	\$ 7,837.27
Jul. 2013 - Jun. 2014	\$ 21,722.09	\$ (10,861.05)	\$ 474.09	\$ 11,335.13	56.00	\$ 5,719.30
Jul. 2014 - Jun. 2015	\$ 198,138.44	\$ (99,069.23)	\$ -	\$ 99,069.21	9.00	\$ 1,141.63
Jul. 2015 - Jun. 2016	\$ -	\$ -	\$ -	\$ -	30.00	\$ 3,587.65
Jul. 2016 - Jan. 2017	\$ -	\$ -	\$ -	\$ -	15.00	\$ 2,148.96
Totals	\$ 351,949.56	\$ (175,974.81)	\$ 6,750.01	\$ 182,724.76	187.00	\$ 20,846.19
	7108.7	7108.71, 7108.72	7108.75			7108.11

OTHER INCOME AND EXPENSE

There were no other significant items to report within the category of Other Income and Expenses for the month ending January 31, 2017.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

December 2016:

The interest earned on the Chino Basin Watermaster deposits with the Local Agency Investment Fund (LAIF) for the quarter ending December 31, 2016 of \$15,179.19 was recorded during the month of December, 2016.

During the month of December, 2016, Chino Basin Watermaster received an invoice from IEUA in the amount of \$2,471,040.00 for the purchase of 4,160.000 AF of untreated water. The purchase consisted of Cumulative Unmet Replenishment Obligation (CURO) purchases of 3,988.661 AF; Desalter Replenishment Obligation (DRO) purchases of 168.004 AF; with an excess balance of 3.335 AF being carried by Watermaster. The total purchase of 4,160.000 AF at an AF cost of \$594 (4,160.000 AF X \$594 = \$2,471,040.00). The amount of \$2,471,040.00 has been recorded to Groundwater Replenishment expense (5010).

July 2016:

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 2016/17 annual administrative fee invoice was issued on July 31, 2016 in the amount of \$159,631.04 under invoice number DYY 16-01.

"CARRY OVER" FUNDING

BACKGROUND OF "CARRY OVER" FUNDING

Once the FY 2015/16 period as of June 30, 2016 was closed, the amount of unfinished capital projects and related engineering costs was calculated and the "Carry Over" funding amount was added to the current FY 2016/17 budget. The Total "Carry Over" funding amount of \$2,630,337.45 was posted to the accounts as of July 1, 2016. The total amount of \$2,630,337.45 consisted of \$2,264,522.96 from Capital Improvement Projects; \$326,577.00 from Engineering Services; \$29,285.99 from the Chino Hills ASR Project; and \$9,951.50 from the Administration budget for completion of the Annual Reports.

CURRENT MONTH – JANUARY 2017

As of January 31, 2017, the total (YTD) amount remaining of the "Carried Over" funding is \$1,851,903.04 (\$2,630,337.45 - \$778,434.41 = \$1,851,903.04).

The following details are provided:

"Carried Over" Expenses At June 30, 2016

			GL Account		
Printing - Annual Report	\$ 5,000.00	A	6045	FY 2015/16	ADM
Rauch Communication Consultants - Annual Report	\$ 4,951.50	B	6061.3	FY 2015/16	ADM
Chino Hills ASR Project	\$ 29,285.99	C	7107.62	FY 2013/14	ASR
Hydraulic Control Engineering - PBHSP	\$ 12,072.00	D	7108.31 ¹	FY 2015/16	ENG
Hydraulic Control Monitoring - Adaptive Mgmt Plan	\$ 50,000.00	E	7108.32 ²	FY 2015/16	ENG
PE4 - Engineering Services	\$ 7,000.00	F	7402 ³	FY 2015/16	ENG
PE4 - Northwest MZ-1 Area Project	\$ 257,505.00	G	7402.1 ⁴	FY 2015/16	ENG
Jurupa Pumping Station (TO #5)	\$ 37,981.33	H	7209.1 ⁵	FY 2013/14	PROJ
Wineville Basin Proof of Concept (TO #6)	\$ 35,397.53	I	7209.2 ⁵	FY 2013/14	PROJ
Hickory Basin Recharge Improvement Project	\$ 3,877.00	J	7690.3 ⁵	FY 2013/14	PROJ
RMPU Amendment (TO #1)	\$ 467,269.61	K	7690.15	FY 2015/16	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 58,683.31	L	7690.4	FY 2013/14	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 175,000.00	L	7690.4	FY 2014/15	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ 1,126,900.00	L	7690.4	FY 2015/16	PROJ
CB20 Turnout Noise Abatement Project	\$ 859.80	M	7690.5 ⁵	FY 2013/14	PROJ
GWR SCADA Upgrades (TO #4)	\$ 279,343.47	N	7690.61	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)	\$ 38,675.00	N	7690.61	FY 2015/16	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 32,836.88	O	7690.7	FY 2014/15	PROJ
Upper Santa Ana River HCP (TO #7)	\$ 5,000.00	O	7690.7	FY 2015/16	PROJ
Lower Day Basin RMPU (TO #2)	\$ 2,699.03	P	7690.8	FY 2014/15	PROJ
Total Balance, June 30, 2016	\$ 2,630,337.45				

"Carried Over" Balance, July 1, 2016 \$ 2,630,337.45

Less: (Invoices Received To Date FY 2016/17)

Printing - Annual Report	\$ (5,000.00)	A	6045	FY 2015/16	ADM
Rauch Communication Consultants - Annual Report	\$ (4,951.50)	B	6061.3	FY 2015/16	ADM
Hydraulic Control Engineering - PBHSP	\$ (12,072.00)	D	7108.31 ¹	FY 2015/16	ENG
Hydraulic Control Monitoring - Adaptive Mgmt Plan	\$ (6,981.00)	E	7108.32 ²	FY 2015/16	ENG
PE4 - Engineering Services	\$ (7,000.00)	F	7402 ³	FY 2015/16	ENG
PE4 - Northwest MZ-1 Area Project	\$ (164,587.74)	G	7402.1 ⁴	FY 2015/16	ENG
RMPU Amendment (TO #1)	\$ (467,269.61)	K	7690.15	FY 2015/16	PROJ
San Sevaine Recharge Improvement Project (TO #8)	\$ (58,916.60)	L	7690.4	FY 2013/14	PROJ
GWR SCADA Upgrades (TO #4)	\$ (48,956.93)	N	7690.61	FY 2014/15	PROJ
Lower Day Basin RMPU (TO #2)	\$ (2,699.03)	P	7690.8	FY 2014/15	PROJ
Updated Balance as of January 31, 2017	\$ 1,851,903.04				

¹Preparation of a vegetation monitoring database in HydroDaVE pursuant to the Adaptive Management Plan for the PBHSP

²Preparation of the Final PBHSP Adaptive Management Plan and the 2016 PBHSP Annual Report

³Finalization of the 2015 Annual Report of the Ground- Level Monitoring Committee

⁴ Carryover budget for three separate subtasks to develop a Subsidence Management Plan for the Northwest MZ- 1 Area

⁵ Project completed and funds are available for reallocation to another project, distribution to Appropriative Pool, or maintain as extra funding

ANNUAL REPORTS:

Unspent funds of \$9,951.50 related to the ongoing Annual Reports for development, production, and printing from the Administrative budget from FY 2015/16 from two accounts were "Carried Over" into the current FY 2016/17 budget. These funds were from the Printing-Annual Report [A] in the amount of

\$5,000 in account (6045); and Rauch Communication Consultants-Annual Report [B] in the amount of \$4,951.50 in account (6061.3).

CHINO HILLS ASR:

The ongoing Chino Hills ASR Project [C] continues into FY 2016/17 and previous years funding of \$29,285.99 has been carried over into account (7107.62).

ENGINEERING SERVICES:

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2015/16 in several accounts totaling \$326,577 were "Carried Over" into the current FY 2016/17 budget. These funds were from the Hydraulic Control Monitoring-Engineering-PBHSP [D] in the amount of \$12,072 in account (7108.31); Hydraulic Control Monitoring-Adaptive Management Plan [E] in the amount of \$50,000 in account (7108.32); PE4-Engineering Services [F] in the amount of \$7,000 in account (7402); and PE4-Northwest MZ-1 Area Project [G] in the amount of \$257,505 in account (7402.10).

COMPLETED PROJECTS WITH FUNDING AVAILABLE:

Several projects were completed during FY 2014/15 and have remaining funds available to be either (1) transferred to other project(s) that need additional funding, (2) keep amounts on reserve for future Capital Improvement Projects, or (3) refunded back to the Appropriative Pool when the Assessment package is invoiced. The funding amounts available are as follows: Jurupa Pumping Station [H] in the amount of \$37,981.33 (account 7209.1); Wineville Basin Proof of Concept [I] in the amount of \$35,397.53 (account 7209.2); and Hickory Basin Recharge Improvement Project [J] in the amount of \$3,877.00 (account 7690.3). One project was completed during FY 2015/16 and has funds available. This project is the CB20 Turnout Noise Abatement Project [M] in the amount of \$859.80 (account 7690.5). The total amount available is \$78,115.66 ($\$37,981.33 + \$35,397.53 + \$3,877.00 + \$859.80 = \$78,115.66$).

ONGOING RECHARGE IMPROVEMENT PROJECTS:

The RMPU Amendment-Task Order #1 [K] has a remaining budget from FY 2015/16 of \$467,269.61 in account (7690.15); the San Sevaine Recharge Improvement Project-Task Order #8 [L] has a remaining funded budget balance of \$1,360,583.31 in account (7690.4); the CB 20 Turnout project has a remaining funded budget balance of \$80,000 in account (7690.5); the GWR SCADA Upgrades-Task Order #4 [N] has a remaining funded budget balance of \$318,018.47 in account (7690.61); the Upper Santa Ana River HCP-Task Order #7 [O] has a remaining funded balance of \$37,836.88 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 [P] has a remaining funded budget balance of \$2,699.03 in account (7690.8). The total funded budget for these combined projects is \$1,609,700.

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, 2017, any remaining balances of the FY 2016/17 and prior years funding (if any), along with any new FY 2016/17 expenses, will then be "Carried Over" into the FY 2017/18 budget.

AUDIT FIELD WORK

FY 2016/17:

The start of the interim field work by Fedak & Brown LLP for the period of July 1, 2016 through January 31, 2017 is planned for April 2017. The final field work for the period of February 1, 2017 through June 30, 2017 is planned for August 2017, with the Annual Financial and Audit Reports presented to the Watermaster Board by Fedak & Brown LLP at the November 16, 2017 Board meeting. The Annual Financial and Audit Reports for FY 2016/17 are anticipated to be posted to the Watermaster website no later than December 15, 2017.

FY 2015/16:

Auditors from the audit firm of Fedak & Brown, LLP were onsite at the Watermaster offices on March 28, 2016. This was the start of the interim field work for the period of July 1, 2015 through January 31, 2016.

The final field work for the period of February 1, 2016 through June 30, 2016 was completed during August 16, 2016 and August 17, 2016. The Annual Financial and Audit Reports were presented to the Watermaster Board by Chris Brown from Fedak & Brown LLP at the November 17, 2016 Board meeting. The Annual Financial and Audit Reports for FY 2015/16 were posted to the Watermaster website on November 22, 2016.

ASSESSMENT INVOICING

CURRENT MONTH – JANUARY 2017

To date, all assessment invoice payments have been received. No Assessment activity for the month to report.

PREVIOUSLY REPORTED ACTIONS (Descending Order)

December 2016:

The Watermaster Board approved the FY 2016-2017 Assessment Package (Production Year 2015-2016) at the November 17, 2016 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 17, 2016. The Assessment invoices were due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business at 5:00pm on Monday, December 19, 2016. As in prior years, payments could be made by either check or wire transfer. As of December 19, 2016, all but one payment had been received. The late payment was received on December 20, 2016 with the late fee for one day being invoiced. The late fee was received on January 3, 2017.

November 2016:

The Watermaster Board approved the FY 2016-2017 Assessment Package (Production Year 2015-2016) at the November 17, 2016 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 17, 2016. The Assessment invoices were due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business at 5:00pm on Monday, December 19, 2016. As in prior years, payments could be made by either check or wire transfer. As of December 19, 2016, all but one payment had been received. The late payment was received on December 20, 2016 with the late fee for one day being invoiced.

October 2016:

The Watermaster Board approved the FY 2016-2017 Assessment Package (Production Year 2015-2016) at the November 17, 2016 meeting. Watermaster staff created and emailed the Assessment invoices on Thursday, November 17, 2016. The Assessment invoices are due 30 days from invoice date, with all payments to be received by Watermaster on or before the close of business Monday, December 19, 2016. As in prior years, payments can be made by either check or wire transfer.

This year's Assessment invoicing included the standard Assessment amounts per the Assessment Package, along with any Special Assessments and the "Excess Cash Reserve" refund credits. The Appropriative Pool had a Special Assessment of \$50,000 as approved during the budgeting process. The \$50,000 was allocated to the Appropriative Pool members based upon a prorated formula of 50% Operating Safe Yield (OSY) and 50% physical production numbers from FY 2015/16.

The Non-Agricultural Pool had a Special Assessment of \$60,000 as approved during a Confidential Session on April 14, 2016. The \$60,000 was allocated to the Non-Agricultural Pool members based upon the actual production numbers from 2015/16.

The Excess Cash Reserve refunds totaled \$31,189 to the Appropriative Pool members and \$3,509 to the Non-Agricultural Pool members, based upon the pro rata share of FY 2015/16 payments. The Excess Cash Reserve-Recharge Debt Payment refund of \$155,824 was refunded to the Appropriative Pool members based upon the pro rata share of FY 2015/16 Recharge Debt Assessments paid. The refunds

were applied as credits on the Assessment invoices and allocated based upon last year's percentage of assessments paid.

September 2016:

The Assessment Year 2016-2017 Package (Production Year 2015-2016) is scheduled for presentation to the Pools at the November 10, 2016 meetings; and approval by the Advisory Committee and adoption by the Watermaster Board at the November 17, 2016 meetings.

No Assessment activity for the month to report.

ATTACHMENTS

1. Financial Report - B5

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	1/12th (8.33%) of the Total Budget				7/12th (58.33%) of the Total Budget				100% of the Total Budget			
	For The Month of January 2017				Year-To-Date as of January 31, 2017				Fiscal Year End as of June 30, 2017			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
Income												
4010 · Local Agency Subsidies	0.00	0.00	0.00	0.0%	159,631.04	158,923.00	708.04	100.45%	159,631.04	158,923.00	708.04	100.45%
4110 · Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	10,059,406.05	10,002,660.00	56,746.05	100.57%	10,059,406.05	10,002,660.00	56,746.05	100.57%
4120 · Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	255,682.35	311,996.00	-56,313.65	81.95%	255,682.35	311,996.00	-56,313.65	81.95%
4700 · Non Operating Revenues	0.00	0.00	0.00	0.0%	22,635.02	7,956.00	14,679.02	284.5%	33,500.00	19,890.00	13,610.00	168.43%
4900 · Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Income	0.00	0.00	0.00	0.0%	10,497,354.46	10,481,535.00	15,819.46	100.15%	10,508,219.44	10,493,469.00	14,750.44	100.14%
Gross Profit	0.00	0.00	0.00	0.0%	10,497,354.46	10,481,535.00	15,819.46	100.15%	10,508,219.44	10,493,469.00	14,750.44	100.14%
Expense												
6010 · Admin. Salary/Benefit Costs	68,974.81	81,539.00	-12,564.19	84.59%	592,533.89	572,098.00	20,435.89	103.57%	967,118.16	971,056.00	-3,937.84	99.59%
6020 · Office Building Expense	8,821.04	10,199.00	-1,377.96	86.49%	58,366.00	65,589.00	-7,223.00	88.99%	107,089.92	111,356.00	-4,266.08	96.17%
6030 · Office Supplies & Equip.	1,475.70	2,420.00	-944.30	60.98%	13,644.90	17,440.00	-3,795.10	78.24%	28,338.40	30,040.00	-1,701.60	94.34%
6040 · Postage & Printing Costs	4,767.54	7,641.00	-2,873.46	62.39%	36,570.43	40,367.00	-3,796.57	90.6%	61,605.78	61,852.00	-246.22	99.6%
6050 · Information Services	10,548.27	10,341.00	207.27	102.0%	86,549.85	86,637.00	-87.15	99.9%	140,003.16	141,092.00	-1,088.84	99.23%
6060 · Contract Services	325.27	0.00	325.27	100.0%	30,499.40	30,951.50	-452.10	98.54%	33,674.13	30,951.50	2,722.63	108.8%
6070 · Watermaster Legal Services	17,939.50	13,810.00	4,129.50	129.9%	196,931.26	131,664.00	65,267.26	149.57%	247,983.52	200,713.00	47,270.52	123.55%
6080 · Insurance	0.00	0.00	0.00	0.0%	26,253.22	31,962.00	-5,708.78	82.14%	28,753.22	31,962.00	-3,208.78	89.96%
6110 · Dues and Subscriptions	8,460.00	8,057.00	403.00	105.0%	20,502.61	20,554.00	-51.39	99.75%	20,885.22	21,054.00	-168.78	99.2%
6140 · WM Admin Expenses	0.00	100.00	-100.00	0.0%	885.12	1,700.00	-814.88	52.07%	1,770.24	2,500.00	-729.76	70.81%
6150 · Field Supplies	0.00	0.00	0.00	0.0%	394.82	850.00	-455.18	46.45%	1,289.64	1,450.00	-160.36	88.94%
6170 · Travel & Transportation	1,179.29	2,800.00	-1,620.71	42.12%	8,658.21	15,310.00	-6,651.79	56.55%	18,957.84	24,870.00	-5,912.16	76.23%
6190 · Training, Conferences, Seminars	2,423.65	3,050.00	-626.35	79.46%	14,407.91	21,350.00	-6,942.09	67.48%	35,968.52	36,600.00	-631.48	98.28%
6200 · Advisory Comm - WM Board	3,676.87	3,739.00	-62.13	98.34%	21,333.82	24,391.00	-3,057.18	87.47%	38,813.90	42,819.00	-4,005.10	90.65%
6300 · Watermaster Board Expenses	17,720.53	12,969.00	4,751.53	136.64%	87,571.93	94,795.00	-7,223.07	92.38%	154,702.80	159,234.00	-4,531.20	97.15%
8300 · Appr PI-WM & Pool Admin	9,832.06	9,485.00	347.06	103.66%	62,044.69	63,713.00	-1,668.31	97.38%	108,925.26	110,765.00	-1,839.74	98.34%
8400 · Agri Pool-WM & Pool Admin	5,356.47	5,180.00	176.47	103.41%	24,856.28	33,601.00	-8,744.72	73.98%	53,999.62	59,176.00	-5,176.38	91.25%
8467 · Ag Legal & Technical Services	19,937.50	17,083.00	2,854.50	116.71%	121,227.50	119,585.00	1,642.50	101.37%	203,830.00	205,000.00	-1,170.00	99.43%
8470 · Ag Meeting Attend -Special	1,400.00	1,850.00	-450.00	75.68%	9,975.00	12,950.00	-2,975.00	77.03%	19,650.00	22,200.00	-2,550.00	88.51%
8471 · Ag Pool Expense	0.00	0.00	0.00	0.0%	0.00	32,500.00	-32,500.00	0.0%	35,000.00	65,000.00	-30,000.00	53.85%
8485 · Ag Pool - Misc. Exp. - Ag Fund	0.00	0.00	0.00	0.0%	545.98	400.00	145.98	136.5%	800.00	400.00	400.00	200.0%
8500 · Non-Ag PI-WM & Pool Admin	9,314.97	9,165.00	149.97	101.64%	54,571.36	61,537.00	-6,965.64	88.68%	102,512.78	107,152.00	-4,639.22	95.67%
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	-15,799.42	-31,542.00	15,742.58	50.09%	-102,916.54	-220,795.00	117,878.46	46.61%	-249,234.24	-378,505.00	129,270.76	65.85%
6900 · Optimum Basin Mgmt Plan	160,229.81	136,649.00	23,580.81	117.26%	906,197.89	971,730.00	-65,532.11	93.26%	1,616,936.16	1,654,053.00	-37,116.84	97.76%
6950 · Mutual Agency Projects	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9501 · G&A Expenses Allocated-OBMP	4,406.73	6,122.00	-1,715.27	71.98%	19,409.99	42,856.00	-23,446.01	45.29%	45,006.52	73,466.00	-28,459.48	61.26%
7101 · Production Monitoring	2,380.28	6,846.00	-4,465.72	34.77%	25,191.95	47,726.00	-22,534.05	52.79%	75,623.34	81,372.00	-5,748.66	92.94%
7102 · In-line Meter Installation	0.00	5,617.00	-5,617.00	0.0%	764.23	39,285.00	-38,520.77	1.95%	51,528.46	67,264.00	-15,735.54	76.61%
7103 · Grdwtr Quality Monitoring	10,424.39	15,664.00	-5,239.61	66.55%	145,005.07	172,669.00	-27,663.93	83.98%	262,161.36	262,397.00	-235.64	99.91%
7104 · Gdwtr Level Monitoring	21,795.15	21,581.00	214.15	100.99%	126,508.40	150,933.00	-24,424.60	83.82%	244,426.50	258,416.00	-13,989.50	94.59%
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%
7107 · Ground Level Monitoring	32,349.21	13,020.00	19,329.21	248.46%	92,981.49	162,922.99	-69,941.50	57.07%	246,264.56	270,522.99	-24,258.43	91.03%

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	1/12th (8.33%) of the Total Budget				7/12th (58.33%) of the Total Budget				100% of the Total Budget			
	For The Month of January 2017				Year-To-Date as of January 31, 2017				Fiscal Year End as of June 30, 2017			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Budget	\$ Over(Under)	% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 · Hydraulic Control Monitoring	52,247.04	40,250.00	11,997.04	129.81%	262,371.79	343,785.00	-81,413.21	76.32%	525,249.50	544,931.00	-19,681.50	96.39%
7109 · Recharge & Well Monitoring Prog	0.00	1,943.00	-1,943.00	0.0%	4,251.50	13,603.00	-9,351.50	31.25%	16,003.00	23,318.00	-7,315.00	68.63%
7200 · PE2- Comp Recharge Pgm	258,439.69	18,584.00	239,855.69	1,390.66%	825,769.82	941,816.86	-116,047.04	87.68%	1,239,660.26	1,277,384.86	-37,724.60	97.05%
7300 · PE3&5-Water Supply/Desalte	0.00	2,684.00	-2,684.00	0.0%	78.60	18,732.00	-18,653.40	0.42%	15,157.20	31,972.00	-16,814.80	47.41%
7400 · PE4- Mgmt Plan	19,635.87	21,490.00	-1,854.13	91.37%	222,205.39	414,897.00	-192,691.61	53.56%	490,139.04	522,241.00	-32,101.96	93.85%
7500 · PE6&7-CoopEfforts/SaltMgmt	468.80	4,422.00	-3,953.20	10.6%	9,216.80	30,915.00	-21,698.20	29.81%	42,496.00	52,912.00	-10,416.00	80.31%
7600 · PE8&9-StorageMgmt/Conj Use	2,395.59	9,504.00	-7,108.41	25.21%	17,711.77	66,349.00	-48,637.23	26.7%	103,132.36	113,336.00	-10,203.64	91.0%
7690 · Recharge Improvement Debt Pymt	0.00	0.00	0.00	0.0%	1,129,867.43	4,395,744.10	-3,265,876.67	25.7%	4,009,734.86	5,525,944.10	-1,516,209.24	72.56%
7700 · Inactive Well Protection Prgm	0.00	42.00	-42.00	0.0%	0.00	290.00	-290.00	0.0%	250.00	500.00	-250.00	50.0%
9502 · G&A Expenses Allocated-Projects	11,392.69	25,420.00	-14,027.31	44.82%	83,506.55	177,939.00	-94,432.45	46.93%	204,227.72	305,039.00	-100,811.28	66.95%
Total Expense	752,519.30	497,724.00	254,795.30	151.19%	5,236,446.31	9,251,342.45	-4,014,896.14	56.6%	11,350,434.71	13,123,806.45	-1,773,371.74	86.49%
Net Ordinary Income	-752,519.30	-497,724.00	-254,795.30	151.19%	5,260,908.15	1,230,192.55	4,030,715.60	427.65%	-842,215.27	-2,630,337.45	1,788,122.18	32.02%
Other Income												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	959,063.76	0.00	959,063.76	100.0%	935,492.38	0.00	935,492.38	100.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	15,798.22	0.00	15,798.22	100.0%	15,798.22	0.00	15,798.22	100.0%
4225 · Interest Income	0.00	0.00	0.00	0.0%	5,762.11	0.00	5,762.11	100.0%	12,024.22	0.00	12,024.22	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%
Total Other Income	0.00	0.00	0.00	0.0%	980,624.09	0.00	980,624.09	100.0%	963,314.82	0.00	963,314.82	100.0%
Other Expense												
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	2,471,040.00	0.00	2,471,040.00	100.0%	2,471,040.00	0.00	2,471,040.00	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%	31,189.00	0.00	31,189.00	100.0%	31,189.00	0.00	31,189.00	100.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	3,509.00	0.00	3,509.00	100.0%	3,509.00	0.00	3,509.00	100.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	155,824.00	0.00	155,824.00	100.0%	155,824.00	0.00	155,824.00	100.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	158,251.00	0.00	158,251.00	100.0%	158,251.00	0.00	158,251.00	100.0%
Total Other Expense	0.00	0.00	0.00	0.0%	2,819,813.00	0.00	2,819,813.00	100.0%	2,819,813.00	0.00	2,819,813.00	100.0%
Net Other Income	0.00	0.00	0.00	0.0%	-1,839,188.91	0.00	-1,839,188.91	100.0%	-1,856,498.18	0.00	-1,856,498.18	100.0%
Net Income	-752,519.30	-497,724.00	-254,795.30	151.19%	3,421,719.24	1,230,192.55	2,191,526.69	278.15%	-2,698,713.45	-2,630,337.45	-68,376.00	102.6%

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

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

C. OBMP SEMI-ANNUAL STATUS REPORTS 2015-2 AND 2016-1



CHINO BASIN WATERMASTER

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

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: Semi-Annual Optimum Basin Management Program Status Reports 2015-2 and 2016-1
(Consent Calendar Item I.C.)

SUMMARY

Issue: Watermaster produces the Semi-Annual Optimum Basin Management Program (OBMP) Status Reports. The reports for the period July to December 2015 and January to June 2016 have been drafted.

Recommendation: Adopt the Semi-Annual OBMP Status Report 2015-2 and 2016-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

Financial Impact: The costs of preparing the Semi-Annual OBMP Status Report and filing it with the Court are included in the Watermaster budget.

Future Consideration

Watermaster Board - March 23, 2017: Adopt the Semi-Annual OBMP Status Reports 2015-2 and 2016-1, along with filing a copy with the Court, subject to any necessary non-substantive changes [Discretionary Function]

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously recommended to the Advisory Committee to re commend to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2015-2 and 2016-1 along with filing a copy with the Court, subject to any necessary non-substantive changes.

Non-Agricultural Pool – March 9, 2017: Unanimously recommended their representatives to support at the Advisory Committee and Watermaster Board meetings along with filing a copy with the Court subject to changes they deem appropriate.

Agricultural Pool – March 10, 2017: Unanimously recommended to the Advisory Committee to re commend to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2015-2 and 2016-1 along with filing a copy with the Court, subject to any necessary non-substantive changes.

Advisory Committee – March 16, 2017: Unanimously recommended to the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2015-2 and 2016-1 along with a copy with the Court, subject to any necessary non-substantive changes.

Watermaster Board – March 23, 2017:

BACKGROUND

Semi-Annual OBMP Status Report 2015-2 covers the period from July to December 2015; Semi-Annual OBMP Status Report 2016-1 covers the period from January to June 2016. The reports describe work conducted, and the current status of the nine Program Elements of the Optimum Basin Management Program during the six-month period.

DISCUSSION

Semi-Annual OBMP Status Reports 2015-2 and 2016-1 have been drafted. Once adopted by the Board, the Semi-Annual OBMP Status Reports will be filed with the Court.

ATTACHMENTS

1. Semi-Annual Optimum Basin Management Program Status Report 2015-2
2. Semi-Annual Optimum Basin Management Program Status Report 2016-1

Optimum Basin Management Program

Staff Status Report 2015-2: July to December 2015



Optimum Basin Management Program

CHINO BASIN WATERMASTER

Highlighted Activities

- During this reporting period, Watermaster manually measured 419 water levels at 90 private wells throughout the Chino Basin, conducted two quarterly download events at about 130 wells containing pressure transducers, collected 46 groundwater-quality samples from private and dedicated monitoring wells, and collected four surface-water quality samples.
- As a requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent Environmental Impact Report (SEIR), Watermaster, the Inland Empire Utilities Agency (IEUA) and the Orange County Water District (OCWD) continued to develop a Prado Basin Habitat Sustainability Program (PBHSP). During this reporting period, the Prado Basin Habitat Sustainability Committee (PBHSC) prepared and reviewed the draft Adaptive Management Plan, and prepared a final report of the results of cone penetrometer testing and drilling and construction of the PBHSP monitoring wells. Additionally, Watermaster conducted the first two rounds of quarterly groundwater-level and -quality monitoring at the eighteen PBHSP monitoring wells.
- The 2015 update to the *Chino Basin Subsidence Management Plan* was adopted by the Watermaster Pools, Advisory Committee and Board in July 2015. This plan is an update to the prior *MZ-1 Plan* that was adopted by the Watermaster in 2007, and includes a new *Work Plan to Develop the Subsidence Management Plan for the Northwest MZ-1 Area* (Northwest MZ-1 Work Plan) as an appendix.
- Watermaster began implementation of the Northwest MZ-1 Work Plan, including working with the Parties in the area to develop a plan to monitor groundwater levels at existing production wells using pressure transducers and beginning the development of a one-dimensional aquifer-system compaction model that will be used to estimate future ground-level movement in the Northwest MZ-1 Area.
- Watermaster and the IEUA are continuing to implement the 2013 Amendment to the 2010 Recharge Master Plan Update (2013 RMPU) pursuant to the October 2013 Court Order authorizing its implementation. During this reporting period, Watermaster and the IEUA continued developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPU report, prioritize the construction of these projects relative to the availability of grant funding, and to plan subsequent implementation.
- During this reporting period, stormwater recharge was approximately 4,003 acre-feet, recycled water recharge was approximately 5,997 acre-feet, and imported water recharge was zero acre-feet.
- Development and planning continues between the Chino Desalter Authority (CDA) and Watermaster to expand the Chino Desalters to an ultimate raw-water production capacity of 40,000 acre-feet per year. On June 30, 2015 Watermaster and the IEUA submitted a final plan and schedule for the construction and operation of three new desalter wells (II-10, II-11, and II-12) to achieve this capacity. During this reporting period, Chino Creek Well Field (CCWF) wells I-20 and I-21 were equipped for production and the construction of Chino II Desalter wells II-10 and II-11 was completed in September 2015.
- Watermaster began its evaluation of the Safe Yield in 2013. In this reporting period, the Watermaster parties concluded the facilitated process and developed substantial consensus as to an agreement to implement the recalculated Safe Yield. At its September 24, 2015 meeting, the Board adopted Resolution 2015-06, endorsing the 2015 Safe Yield Reset Agreement and directed Watermaster legal counsel to file the Agreement with the Court. Resolution 2015-06 was adopted by majority vote, with two of the nine Board members opposing the action. This agreement was filed with the Court on October 23, 2015 with a motion recommending the Court to reset the Safe Yield of the Chino Basin at 135,000 acre-feet per year. The hearing on this motion was scheduled for December 18, 2015. The Court continued the hearing to January 22, 2016 and then to February 26, 2016.

Important Court Hearings and Orders

- AUGUST 21, 2015 - HEARING ON CBWM STATUS REPORT ON WATERMASTER'S SAFE YIELD REDETERMINATION AND RESET, REQUEST FOR APPROVAL OF INTERVENTION OF MVWD INTO THE NON-AG POOL, AND TRANSMITTAL OF 35TH ANNUAL REPORT
- AUGUST 21, 2015 - RULING RE APPROVAL OF INTERVENTION OF MVWD INTO THE NON-AG POOL, AND RECEIVE AND FILE 35TH ANNUAL REPORT
- NOVEMBER 20, 2015 - ORDER GRANTING REQUEST TO RECEIVE AND FILE OBMP STATUS REPORT 2013-1
- DECEMBER 2, 2015 - ORDER CONTINUING 12/18/15 HEARING AND CONFIRMATION OF FILINGS THROUGH CBWM
- DECEMBER 16, 2015 - ORDER RE MODIFICATION OF DECEMBER 2, 2015 ORDERS AND BRIEFING SCHEDULE
- DECEMBER 21, 2015 - MODIFICATION OF DECEMBER 16, 2015 ORDER

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program

Groundwater Level Monitoring

Watermaster initiated a basin-wide groundwater-level monitoring program as part of the implementation of the Optimum Basin Management Program (OBMP). The monitoring program has been refined over time to satisfy the evolving needs of the Watermaster and the IEUA, such as new regulatory requirements and improved data coverage. The groundwater-level monitoring program supports many Watermaster functions, such as the periodic reassessment of Safe Yield, the monitoring and management of ground-level movement, the analysis of desalter pumping impacts at private wells, and the analysis of the implementation of the Peace II Agreement on groundwater levels and riparian vegetation in Prado Basin, the triennial re-computation of ambient water quality mandated by the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan), and the assessment of hydraulic control—a maximum-benefit commitment in the Basin Plan. The data are also used to update and re-calibrate Watermaster’s computer-simulation groundwater-flow model, to understand directions of groundwater flow, to compute storage changes, to interpret water quality data, and to identify areas of the basin where recharge and discharge are not in balance.

The current groundwater-level monitoring program is comprised of about 1,180 wells. At about 960 of these wells, water levels are measured by well owners, which include municipal water agencies, the California Department of Toxic Substances Control (DTSC), the Counties, and various private consulting firms. Watermaster collects these water level data at least semi-annually. At the remaining 220 wells, water levels are measured by Watermaster staff using manual methods once per month or by using pressure transducers that record data once every 15 minutes. These wells are mainly Agricultural Pool wells or dedicated monitoring wells located south of the 60 freeway.

All groundwater-level data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. During this reporting period, Watermaster measured 419 manual water levels at 90 private wells throughout the Chino Basin, and conducted two quarterly downloads at about 130 wells containing pressure transducers. Additionally, Watermaster compiled all available groundwater-level data from other parties for the April to September 2015 period.



Pressure Transducer Equipment Before Installation

Groundwater Quality Monitoring

Watermaster initiated a comprehensive groundwater-quality monitoring program as part of the implementation of the OBMP. The monitoring program has been refined over time to satisfy the evolving needs of the Watermaster and the IEUA, such as new regulatory requirements, improved data coverage. The groundwater-quality data are used by Watermaster for: the biennial State of the Basin report; the triennial ambient water quality update; the demonstration of hydraulic control, monitoring nonpoint-source groundwater contamination and plumes associated with point-source discharges, and to assess the overall health of the groundwater basin. Groundwater-quality data are also used in conjunction with numerical models to assist Watermaster and other parties in evaluating proposed groundwater remediation strategies. The groundwater-quality monitoring program currently consists of the following five components:

1. An annual Key-Well Water-Quality Monitoring Program consisting of about 110 wells, which are mostly privately-owned agricultural wells in the southern portion of Chino Basin that are otherwise not included in an established sampling program. Twenty of these wells are sampled every year, and the remaining wells are sampled once every three years. The wells sampled annually are for the continuous monitoring of areas of concern associated with the southern edge of the South Archibald Plume, the southern region of the Chino Airport Plume, and the Kaiser Steel Mill Plume, and also includes two multi-port MZ-3 monitoring wells.
2. Annual sampling at nine HCMP multi-port monitoring wells strategically placed between the Chino Desalter well fields and the Santa Ana River. Results of the annual sampling are used to analyze the effect of desalter pumping over time on hydraulic control, by comparing water quality of the native groundwater and the Santa Ana River.
3. Quarterly sampling at four near-river wells to characterize the interaction between the Santa Ana River and nearby groundwater. These shallow monitoring wells along the Santa Ana River consist of two former US Geological Survey (USGS) National Water Quality Assessment Program wells (Archibald 1 and Archibald 2), and two wells owned by the Santa Ana River Water Company (Well 9 and Well 11).

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

4. Quarterly sampling of eighteen PBHSP monitoring wells located in nine locations near the fringes of riparian vegetation in the Prado Basin. The data will be used to support the assessment of the impacts from the implementation of the Peace II Agreement on groundwater levels and riparian vegetation in Prado Basin.
5. A cooperative basin-wide data-collection effort known as the Chino Basin Data Collection program, which relies on municipal producers and other government agencies to supply groundwater-quality data on a cooperative basis. These sources include the Chino Basin Appropriators, the DTSC, the Regional Water Quality Control Board (Regional Board), the USGS, the Counties, and other cooperators.

All groundwater-quality data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. During this reporting period, Watermaster collected 46 groundwater-quality samples from private and dedicated monitoring wells. Additionally, Watermaster compiled all available groundwater-quality data from other parties for the January to June 2015 period.

Groundwater Production Monitoring

All active agricultural production wells (except for minimum user wells) are now metered. Watermaster reads the production data from the meters on a quarterly basis and enters these data into Watermaster's relational database that can be accessed online through HydroDaVESM.

Surface Water Monitoring in the Santa Ana River

Watermaster measures selected water quality parameters at two sites along the Santa Ana River (Santa Ana River at River Road and Santa Ana River at Etiwanda) on a quarterly basis. Along with data collected at four near-river wells, these data are used to characterize the interaction between the Santa Ana River and nearby groundwater. During this reporting period, Watermaster collected four surface-water quality samples.

Hydraulic Control

In January 2004, the Regional Board amended the Basin Plan to incorporate an updated total dissolved solids (TDS) and nitrogen (N) management plan. The Basin Plan amendment includes both "antidegradation" and "maximum benefit" objectives for TDS and nitrate-N for the Chino-North and Cucamonga groundwater management zones (GMZs). The maximum benefit objectives allow for the reuse and recharge of recycled water and the recharge of imported water without mitigation; these activities are an integral part of the OBMP. The application of the maximum-benefit objectives is contingent on Watermaster and the IEUA's implementation of specific projects and requirements termed the maximum-benefit commitments.

One of the main maximum-benefit commitments is to achieve and maintain "hydraulic control" of the Chino Basin so that downstream beneficial uses of the Santa Ana River are protected. Hydraulic control is defined by the Basin Plan as the elimination of groundwater discharge from the Chino-North GMZ to the Santa Ana River or its reduction to a de minimus level. In October 2011, the Regional Board indicated that groundwater discharge from the Chino-North GMZ to the Prado Basin surface water management zone in an amount less than 1,000 acre-feet per year is considered de minimus.

Two of the maximum-benefit commitments are to implement surface and groundwater monitoring programs. On April 15, 2005, the Regional Board adopted resolution R8-2005-0064, approving Watermaster and the IEUA's surface and groundwater monitoring programs. These monitoring programs were conducted pursuant to the 2005 work plan until 2012, when the Basin Plan was amended to remove all references to the specific monitoring locations and sampling frequencies required for groundwater and surface water monitoring. The Basin Plan amendment allowed for the monitoring programs to be modified over time on a go-forward basis, subject to the approval of the Executive Officer of the Regional Board. The Basin Plan amendment was approved by the Regional Board on February 12, 2012 and by the State Office of Administrative Law on December 6, 2012. This amendment was adopted based on demonstrations made by Watermaster and the IEUA showing that the surface water monitoring program, as explicitly described in the Basin Plan, was not meaningfully adding to the body of evidence required to demonstrate hydraulic control. In the place of specific monitoring requirements, the Basin Plan required that Watermaster and the IEUA submit for approval by the Executive Officer a new surface water monitoring program work plan by February 25, 2012 and a new groundwater monitoring program work plan by December 31, 2013. In February 2012, Watermaster and the IEUA submitted, and the Regional Board approved, a new surface water monitoring program that reduced the 2005 monitoring program from bi-weekly surface water quality measurements at 17 sites and direct discharge measurements at six sites, to quarterly surface water quality sampling at two sites. The new work plan including these changes was adopted by the Regional Board in March 2012.

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

In December 2013, Watermaster and the IEUA submitted an updated *Maximum Benefit Monitoring Program Work Plan and Proposed Schedule for Achieving Hydraulic Control* to the Regional Board. The updated Work Plan states that Watermaster and the IEUA will recalibrate the Chino Basin groundwater model every five years and use the model to estimate groundwater discharge from the Chino-North GMZ to the Santa Ana River (i.e. annual underflow past the CCWF) and determine whether hydraulic control has been achieved. The new Maximum Benefit Monitoring Program Work Plan was adopted by the Regional Board in April 2014.

In January 2014, in a letter to Watermaster and the IEUA, the Regional Board confirmed that the model results indicated that hydraulic control would be achieved under the projected range of pumping at the CCWF. The Regional Board also requested that Watermaster and the IEUA submit a plan and schedule to increase desalter production capacity from 32,000 to 40,000 acre-feet per year by May 31, 2014. Watermaster and the IEUA submitted a plan and schedule to the Regional Board on May 30, 2014 to install three new desalter wells—with the location of one well being provisional. On June 30, 2015 Watermaster and the IEUA submitted a final plan and schedule for the construction and operation of the three new desalter wells including the final well locations.

During this reporting period, Watermaster continued implementing the surface and groundwater monitoring programs required by the maximum benefit commitments. As described in the Program Element 1 update herein, Watermaster measured 419 manual water levels at 90 private wells throughout the Chino Basin, conducted two quarterly downloads at about 130 wells containing pressure transducers, collected 46 groundwater-quality samples at private and dedicated monitoring wells and collected four surface-water quality samples.

Prado Basin Habitat Sustainability Monitoring Program

A requirement of Mitigation Measure 4.4-3 from the Peace II SEIR is for Watermaster, the IEUA, and the OCWD to develop an Adaptive Management Plan for the PBHSP and to form the Prado Basin Habitat Sustainability Committee (PBHSC), convened by Watermaster and the IEUA, to implement the Adaptive Management Plan. The objective of this plan is to ensure that the riparian habitat in Prado Basin is not adversely impacted by drawdown associated with the implementation of the Peace II activities. Sixteen monitoring wells at nine sites were constructed in April and May 2015 as part of the monitoring program for the PBHSP. Two existing wells will also be monitored as part of the PBHSP. The PBHSC is developing the Adaptive Management Plan to describe an initial monitoring program and a process to modify the monitoring program and/or implement mitigation strategies, as necessary. During this reporting period, the PBHSC prepared and reviewed the draft Adaptive Management Plan, and prepared the final report of the results of cone penetrometer testing and drilling and construction of the PBHSP monitoring wells. Additionally, Watermaster collected two rounds of quarterly groundwater-quality samples and conducted two quarterly downloads of pressure transducers that measure water levels at the eighteen PBHSP monitoring wells.

Chino Basin Groundwater Recharge Program

Watermaster, the IEUA, the Chino Basin Water Conservation District, and the San Bernardino County Flood Control District jointly sponsor the Chino Basin Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells by increasing the recharge of storm, imported, and recycled waters. The recharge program is regulated under RWQCB Order No. R8-2007-0039 and Monitoring and Reporting Program No. R8-2007-0039.

Watermaster and the IEUA measure the quantity of storm and supplemental water that enters into recharge basins using pressure transducers or staff gauges that measure water levels during recharge operations. They also collect weekly water quality samples from recharge basins that are actively recharging recycled water and from lysimeters installed within those recharge basins. Additionally, imported water quality data for State Water Project water are obtained from the Metropolitan Water District of Southern California (MWDSC) and recycled water quality data for the RP-1 and RP-4 treatment plant effluents are obtained from the IEUA. Combining the measured flow data with the respective water qualities enables the calculation of the blended water quality of the recharge sources in each recharge basin and assess if there is adequate dilution of recycled water as required by the recycled water recharge permits held with the Department of Drinking Water (DDW). Additionally, the measurements of recharge are used to estimate the New Yield to the Chino Basin as a result of the recharge activities.



Brooks Basin

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

Recharge Activities. During this reporting period, ongoing recycled water recharge occurred in the Brooks, 7th Street, Turner, Victoria, Ely, Hickory, DeClez, RP-3, and Banana Basins; stormwater was recharged at 16 recharge basins across all management zones of the Chino Basin; and no imported water was recharged.

Monitoring Activities. During this reporting period, the IEUA performed its on-going monitoring program to measure and record recharge volumes and collect stormwater quality samples pursuant to its permit requirements. Also, during this reporting period, approximately 120 recharge basin and lysimeter samples were collected and 26 recycled water samples were collected for alternative monitoring plans that include the application of a correction factor for soil-aquifer treatment determined from each recharge basin's start-up period. Monitoring wells located down-gradient of the recharge basins were sampled, at a minimum, on a quarterly basis; however, some monitoring wells were sampled more frequently during the reporting period for a total of 104 samples.

Reporting. Watermaster and the IEUA completed the following required reports concerning the recharge program during the reporting period:

- 2Q-2015 Quarterly Report, submitted to the RWQCB – August 2015
- 3Q-2015 Quarterly Report, submitted to the RWQCB – November 2015

Ground-Level Monitoring

In response to the occurrence of land subsidence in the City of Chino, the Watermaster prepared and submitted a subsidence management plan (known as the MZ-1 Plan) to the Court for approval and, in November 2007, the Court ordered its implementation (see the update in this report under Program Element 4 for more on the MZ-1 Plan implementation). The MZ-1 Plan called for several monitoring and mitigation measures to minimize or abate the future occurrence of land subsidence and ground fissuring in the western Chino Basin. These measures and activities included:

- Continuing the scope and frequency of monitoring within the so-called Managed Area (southwest MZ-1) that was conducted during the period when the MZ-1 Plan was being developed.
- Expanding the monitoring of the aquifer system and ground-level movement into other areas of MZ-1 and Chino Basin where the data indicate concern for future subsidence and ground fissuring.
- Monitoring of horizontal strain across the historical zone of ground fissuring.
- Evaluating the potential contribution of groundwater production in northern MZ-1 on ground-level conditions in southern MZ-1.
- Conducting additional testing and monitoring to refine the MZ-1 Guidance Criteria.
- Developing alternative pumping plans for the MZ-1 producers that are impacted by the MZ-1 Plan.
- Constructing and testing a lower-cost cable extensometer facility at Ayala Park.
- Evaluating and comparing ground-level surveying and Interferometric Synthetic Aperture Radar (InSAR), and recommending future monitoring protocols for both techniques.
- Conducting an aquifer storage recovery (ASR) feasibility study at a City of Chino Hills production well within the MZ-1 Managed Area (Well 16).
- Providing for recovery of groundwater levels in the MZ-1 Managed Area.

Since the initial MZ-1 Plan was adopted by the Watermaster in 2007, Watermaster has conducted the annual Ground-Level Monitoring Program (GLMP) to implement the monitoring and reporting program. The main results and recommendations of the GLMP were that very little permanent land subsidence has occurred in the MZ-1 Managed Area, which indicates that subsidence is being successfully managed in this area; and that land subsidence has been occurring in the Northwest MZ-1 Area. Of particular concern is that subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault—the same pattern of differential subsidence that occurred in the MZ-1 Managed Area during the time of ground fissuring.

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

Based on these results, Watermaster determined that the subsidence management plan needed to be updated to include a *Subsidence Management Plan for the Northwest MZ-1 Area* with the long-term objective to minimize or abate the occurrence of the differential land subsidence. Thus, the Watermaster expanded the GLMP into the Northwest MZ-1 Area and prepared a draft *2015 Chino Basin Subsidence Management Plan (SMP)*, which included the *Work Plan to Develop a Subsidence-Management Plan for the Northwest MZ-1 Area (Work Plan)* as an appendix.

During this reporting period, Watermaster undertook the following activities called for in the MZ-1 Plan and the SMP:

- Continued high-resolution water-level monitoring at wells within the Managed Area and within the Areas of Subsidence Concern. All monitoring equipment is inspected at least quarterly and is repaired and/or replaced as necessary. The data collected were checked and analyzed to assess the functionality of the monitoring equipment and for compliance with the MZ-1 Plan.
- Continued monitoring and maintenance at the extensometer facilities at the Ayala Park, Chino Creek, and Daniels sites. Specifically, Watermaster facilitated negotiations between the City of Chino and the new property owner to determine the fate of the Daniels Horizontal Extensometer facility when new owners take control of the property.
- Tasked the German Aerospace Center's TerraSAR-X satellite to collect five (5) InSAR data scenes across the western Chino Basin during the 2015-16 fiscal year.
- Continued implementation of the Long-Term Pumping Test in the MZ-1 Managed Area:
 - The City of Chino Hills modified and tested the wellhead-treatment facility at CH-15B. No significant pumping at the well occurred that resulted in declining water levels at PA-7 to below the Guidance Level.
 - The City of Chino Hills performed planning tasks to connect CH-16 to a source-water pipeline for injection.
- Began implementation of the Northwest MZ-1 Work Plan, including:
 - Worked with the wells owners in the area to (1) record on/off times and pumping rates at all active production wells, (2) canvass each accessible well to determine the feasibility of installing pressure transducers, and (3) developed plans to monitor groundwater levels at these wells at 15-minute intervals using pressure transducers. Transducer installations were designed based on well construction and the historical water-level data. Transducers and installation hardware were purchased.
- Began development of a one-dimensional aquifer-system compaction model that will be used to estimate future land subsidence in the Northwest MZ-1 Area.

Program Element 2: Develop and Implement a Comprehensive Recharge Program

The objectives of the comprehensive recharge program include enhancing the yield of the Chino Basin through the development and implementation of a Recharge Master Plan to improve, expand, and construct recharge facilities that enable the recharge of storm, recycled, and imported waters; ensuring a balance of recharge and discharge in the Chino Basin management zones, and ensuring that sufficient storm and imported waters are recharged to comply with recycled water dilution requirements in Watermaster and the IEUA's recycled water recharge permits.

Pursuant to PE2 of the OBMP, Watermaster and the IEUA partnered with the San Bernardino County Flood Control District and the Chino Basin Water Conservation District to construct and/or improve eighteen recharge sites. This project was known as the Chino Basin Facilities Improvement Project (CBFIP). The average annual stormwater recharge of the CBFIP facilities is approximately 13,000 acre-feet per year, the supplemental "wet"¹ water recharge capacity is approximately 59,100 acre-feet per year, and the in-lieu supplemental water recharge capacity ranges from 25,000 to 40,000 acre-feet per year. In addition to the CBFIP facilities, the Monte Vista Water District has five ASR wells with a demonstrated well injection capacity of 5,600 acre-feet per year. The current total supplemental water recharge capacity ranges from 91,200 to 106,200 acre-feet per year which is greater than the projected supplemental water recharge capacity required by Watermaster.

¹ The modifier "wet" means actual physical water is being recharged in spreading basins as opposed to the dedication of water from storage or in-lieu recharge.

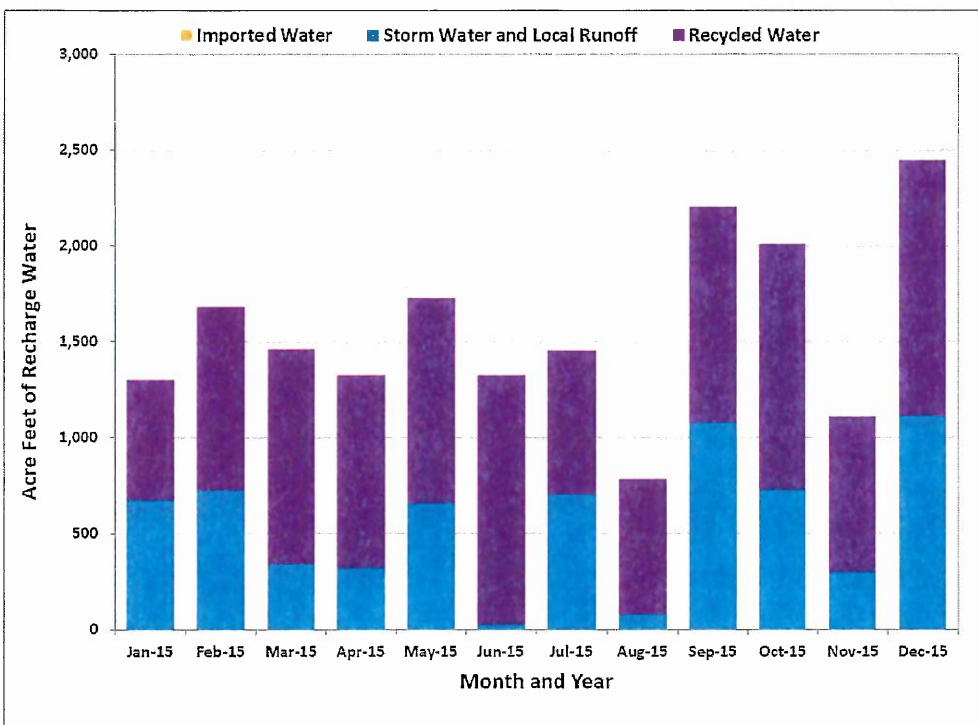
Optimum Basin Management Program

Program Element 2: Develop and Implement a Comprehensive Recharge Program (Continued)

In 2008, Watermaster began preparing the *2010 Recharge Master Plan Update* (2010 RMPU) pursuant to the December 21, 2007 Court Order (the Peace II Agreement) to complete a Recharge Master Plan Update by July 1, 2010. In October 2010, the Court accepted the 2010 RMPU as satisfying the condition and ordered that certain recommendations of the 2010 RMPU be implemented. In November 2011, Watermaster reported its progress to the Court pursuant to the October 2010 Court Order; after which, in December 2011, the Court issued an order directing Watermaster to continue with its implementation of the 2010 RMPU per its October 2010 order but with a revised schedule. And, on December 15, 2011, the Watermaster Board moved to:

“approve that within the next year there will be the completion of [a] Recharge Master Plan Update, there will be the development of an Implementation Plan to address balance issues within the Chino Basin subzones, and the development of a Funding Plan, as presented.”

This motion led to the development of an update to the 2010 RMPU and in 2012, Watermaster staff sent out a “call for projects” to the Watermaster parties, seeking their recommendations for recharge improvement projects that should be considered in the update. The *2013 Update to the 2010 Recharge Master Plan Update* (2013 RMPU) outlines the recommended projects to be implemented by Watermaster, and lays out the implementation plan and financing plan. The 2013 RMPU report was approved by the Watermaster Board in September 2013 and filed with the Court in October 2013. In December 2013, the Court approved the 2013 RMPU with the exception of Section 5 that dealt with the accounting for new recharge from Municipal Separate Stormwater Sewer Systems which was later approved by the Court in April 2014.



2013 RMPU Implementation.

Watermaster and the IEUA are continuing the process to carry out the October 2013 Court Order authorizing Watermaster and the IEUA to implement the 2013 RMPU. During the reporting period, Watermaster and the IEUA continued developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPU report, prioritizing the construction of these projects relative to the availability of grant funding.

Additionally, Watermaster and the IEUA continued to develop a series of projects outside of the 2013 RMPU effort that will increase and/or facilitate stormwater and supplemental water recharge and have jointly agreed to fund these projects. Watermaster’s share of the cost of these projects was included in the budget adopted by Watermaster for fiscal 2015/16.

The Recharge Investigations and Projects Committee meets monthly on the progress of implementing the 2013 RMPU Projects and other recharge-related projects.

Recharge for Dilution of Recycled Water. In fiscal year 2009/10, Watermaster and the IEUA’s recharge permit was amended to allow for existing underflow dilution and extended the period for calculating dilution from a running 60-month to a running 120-month period. Additionally, the IEUA has worked with the DDW to obtain approval to increase the allowable recycled water contribution (RWC) at wells to 50 percent. These permit amendments allow for increased recycled water recharge without having to increase the amount of imported and storm waters required for dilution. The IEUA projects its dilution requirements as part of its annual reporting to the DDW. Based on the latest Annual Report (May 2015), the IEUA projects that dilution requirements will be met through 2020, even if no imported water were available for dilution.

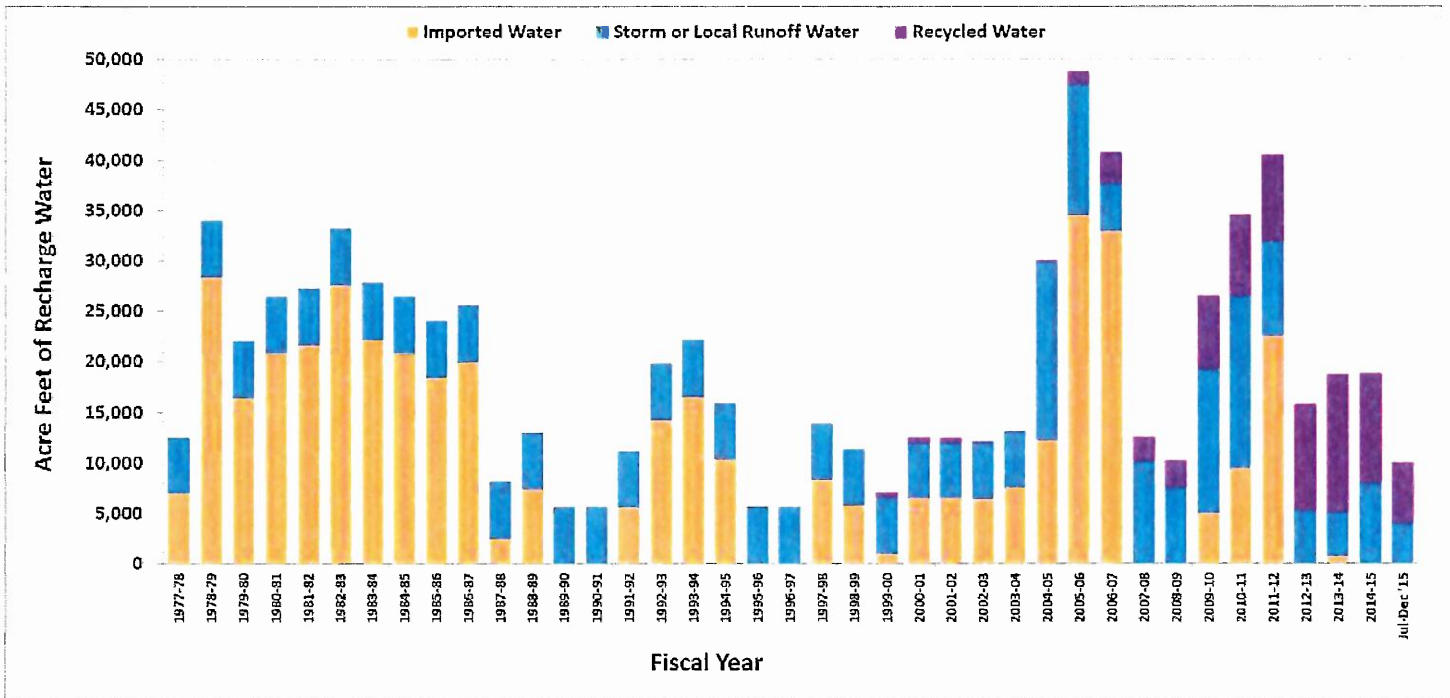
Optimum Basin Management Program

Program Element 2: Develop and Implement a Comprehensive Recharge Program (Continued)

Recharge Activities. During this reporting period, stormwater recharge was approximately 4,003 acre-feet, recycled water recharge was approximately 5,997 acre-feet, and imported water recharge was zero acre-feet.

Balance of Recharge and Discharge in MZ-1

The total amount of supplemental water recharged in MZ-1 since the Peace II Agreement through December 31, 2015 was approximately 45,610 acre-feet, which is almost 13,000 acre-feet less than the 58,500 acre-feet that is required to be recharged by June 30, 2016 (annual requirement of 6,500 acre-feet); the shortfall will be recharged in MZ-1 in subsequent years as supplemental water becomes available. The amount of supplemental water recharged into MZ-1 during the reporting period was approximately 514 acre-feet.



Program Element 3: Develop and Implement Water Supply Plan for the Impaired Areas of the Basin; and Program Element 5: Develop and Implement Regional Supplemental Water Program

The Chino I Desalter Expansion and the Chino II Desalter facilities were completed in February 2006. As currently configured, the Chino I Desalter produces about 13,500 acre-feet per year (12.1 million gallons per day [MGD]) of groundwater at 15 wells (I-1 through I-15) that is treated through air stripping (volatile organic compound [VOC] removal), ion exchange (nitrate removal), and/or reverse osmosis (for nitrate and TDS removal). The Chino II Desalter produces about 15,800 acre-feet per year (14.1 MGD) of groundwater at eight wells (II-1 through II-4 and II-6 through II-9) that is treated through ion exchange and/or reverse osmosis.

Development and planning continues between the CDA and Watermaster to expand the production and treatment capacity of the Chino Desalters by about 10,500 acre-feet per year (9.5 MGD). More than \$77 million in grant funds have been secured toward this expansion. The most recent expansion project completed includes the construction of five wells for the new CCWF (wells I-16, I-17, I-18, I-20 and I-21), which were required to meet the hydraulic control commitment associated with maximum benefit, and will provide additional raw water to the Chino I Desalter. Construction of the raw water pipelines from Wells I-16, I-17 and I-18 is complete, and production at wells I-16 and I-17 began in mid-2014. Well I-18 is currently not planned for operation by the CDA due to high concentrations of VOCs, however, a nine-month pilot test at well I-18 for the treatment of trichloroethene (TCE), 1,2,3-trichloropropane, and nitrate was conducted through mid-2015. Production at wells I-20 and I-21 is planned to begin in early 2016. Three additional wells are being planned for construction to provide additional raw water to the Chino II Desalter; these wells are required to meet the maximum-benefit commitment to produce a total of 40,000 acre-feet per year from the combined desalter

Optimum Basin Management Program

Program Element 3: Develop and Implement Water Supply Plan for the Impaired Areas of the Basin; and Program Element 5: Develop and Implement Regional Supplemental Water Program (Continued)

well fields. This amount was determined in the OBMP Phase I report as the production necessary to maintain hydraulic control. Watermaster and the IEUA coordinated with the CDA to develop a plan to achieve the 40,000 acre-feet per year of desalter production and submitted a preliminary plan to the Regional Board on May 30, 2014. A final plan was submitted to the Regional Board on June 30, 2015 and includes the construction and operation of three new wells for the Chino II Desalter (II-10, II-11, and II-12).

During this reporting period, equipping of CCWF wells I-20 and I-21 was completed and the construction of Chino II Desalter wells II-10 and II-11 was completed in September 2015.

Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1

MZ-1 Management Plan

Because of the historical occurrence of pumping-induced land subsidence and ground fissuring in southwestern Chino Basin (southern MZ-1), the OBMP called for the development and implementation of an Interim Management Plan (IMP) for MZ-1 that would:

- minimize subsidence and fissuring in the short-term,
- collect information necessary to understand the extent, rate, and mechanisms of subsidence and fissuring, and
- formulate a management plan to reduce to tolerable levels or abate future subsidence and fissuring.

From 2001-2005, Watermaster developed, coordinated, and conducted an IMP under the guidance of the MZ-1 Technical Committee. The investigation provided enough information for Watermaster to develop Guidance Criteria for the MZ-1 producers in the investigation area that, if followed, would minimize the potential for subsidence and fissuring during the completion of the MZ-1 Plan. The Guidance Criteria included a listing of Managed Wells and their owners subject to the criteria, a map of the so-called Managed Area, and an initial threshold water level (Guidance Level) of 245 feet below the top of the PA-7 well casing. The MZ-1 Summary Report and the Guidance Criteria were adopted by the Watermaster Board in May 2006. The Guidance Criteria formed the basis for the MZ-1 Plan, which was approved by Watermaster in October 2007. The Court approved the MZ-1 Plan in November 2007 and ordered its implementation. Watermaster has implemented the MZ-1 Plan since this time, including the ongoing Ground-Level Monitoring Program (GLMP) called for by the MZ-1 Plan (refer to the update in this report under Program Element 1).



Fissuring at Ely Basin 3

The MZ-1 Plan states that if data from existing monitoring efforts in the so-called Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster will revise the MZ-1 Plan pursuant to the process outlined in Section 3 of the MZ-1 Plan. In early 2015, Watermaster prepared an update to the MZ-1 Plan, which included a name change to the *Chino Basin Subsidence Management Plan (SMP)* and a *Work Plan to Develop the Subsidence Management Plan for the Northwest MZ-1 Area (Work Plan)* as an appendix. The SMP and the Work Plan were adopted through the Watermaster Pool process during July 2015.

The Watermaster continues to implement the MZ-1 Plan, and now the SMP and Work Plan. The data, analysis, and reports generated through the implementation of the plans are reviewed and discussed by the Ground-Level Monitoring Committee (GLMC), which meets on a periodic basis throughout the year. The GLMC is open to all interested participants, including the Watermaster Parties and their consultants. During this reporting period, Watermaster undertook the following data analysis and reporting tasks:

- Reviewed water levels at the PA-7 piezometer and determined that levels remained above the Guidance Level during the reporting period, and very little, if any, permanent compaction was recorded at the Ayala Park Extensometer.

Optimum Basin Management Program

Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1 (Continued)

- The data, results, and conclusions of the information generated from the GLMP were incorporated into the *2014 Annual Report of the Ground-Level Monitoring Committee*. The 2014 Annual Report was approved through the Watermaster Pool process in July 2015 and the final report was submitted to the Court in August 2015.
- The 2015 update to the *Chino Basin Subsidence Management Plan*, with the Northwest MZ-1 Work Plan as an appendix, was adopted by the Watermaster Pools, Advisory Committee and Board in July 2015.
- Began preparing a technical memorandum titled *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area*. The technical memorandum describes (1) the technical information that is required to develop a subsidence management plan for the Northwest MZ-1 Area, (2) the currently known technical information, and (3) a strategy to acquire the remaining necessary technical information through a monitoring and testing program.
- There were no GLMC meetings during the reporting period.

Program Element 6: Develop and Implement Cooperative Programs with the Regional Water Quality Control Board, Santa Ana Region and Other Agencies to Improve Basin Management; and Program Element 7: Develop and Implement a Salt Management Program

South Archibald Plume

In July 2005, the Regional Board prepared draft Cleanup and Abatement Orders (CAOs) for six parties who were tenants on the Ontario Airport with regard to the South Archibald TCE Plume. The draft CAOs required the parties to “submit a work plan and time schedule to further define the lateral and vertical extent of the TCE and related VOCs that are discharging, have been discharged, or threaten to be discharged from the site” and to “submit a detailed remedial action plan, including an implementation schedule, to cleanup or abate the effects of the TCE and related VOCs.” Four of the six parties (Aerojet-General Corporation, The Boeing Company, General Electric, and Lockheed Martin) voluntarily formed a group known as ABGL to work jointly on a remedial investigation. Northrop Grumman declined to participate in the group. The US Air Force, in cooperation with the US Army Corps of Engineers, funded the installation of one of the four clusters of monitoring wells installed by the ABGL parties.

In 2008, the Regional Board staff conducted research pertaining to the likely source of the TCE contamination, and identified discharges of wastewater that may have contained TCE to the RP-1 treatment plant and associated disposal areas to be a potential source. 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’s sewage systems and subsequently 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 the IEUA as the previous and current operators of the RP-1 treatment plant and disposal area (collectively, the RP-1 parties). In part, the draft CAOs requires the RP-1 parties to “supply uninterrupted replacement water service...to all residences south of Riverside Drive that are served by private domestic wells at which TCE has been detected at concentrations at or exceeding 5 µg/L...” and to report this information to the Regional Board. In addition, the RP-1 parties are to “prepare and submit [a] ...feasibility study” and “prepare, submit and implement the Remedial Action Plan” to mitigate the “effects of the TCE groundwater plume.”

Under the Regional Board’s oversight, sampling at private residential wells and taps has been conducted approximately every two years (2007-2008, 2009, 2011, 2013-2014) by multiple parties in the region where groundwater is potentially contaminated with TCE. As of 2014, all private residences in the area of the plume have been sampled at least once. Alternative water systems (tanks) have been installed at residences in the area where well water contains TCE at or above 80% of the MCL for TCE. Residents who declined tank system are being provided bottled water. Watermaster also routinely samples for water quality at private wells in the area, and uses data obtained from this monitoring to delineate the spatial extent of the plume.

Many of the parties are pursuing various grant funding opportunities to help finance the remediation strategy. This includes applications submitted to the United States Bureau of Reclamation, which resulted in a \$3 million award to the parties. The RP-1 Parties have entered into a Cost Sharing Agreement to fund the South Archibald Plume Cleanup Project. In July 2015, they completed the *Draft Feasibility Study Report for the South Archibald Plume* (Feasibility Study). The Feasibility Study establishes clean-up objectives for both domestic water supply and plume remediation, and evaluates alternatives to accomplish these objectives. A *Draft Remedial*

Optimum Basin Management Program

Program Element 6: Develop and Implement Cooperative Programs with the Regional Water Quality Control Board, Santa Ana Region and Other Agencies to Improve Basin Management; and

Program Element 7: Develop and Implement a Salt Management Program (Continued)

Action Plan (RAP) was concurrently prepared and published in August 2015. Two community meetings were convened 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, a revised Draft Feasibility Study, RAP, and Responses to Comments were completed to address input from the public, ABGL, and others.

The preferred plume remediation alternative identified in the Draft Feasibility Study and RAP involves the use of existing and proposed CDA production wells and facilities. The RP-1 Parties reached a Joint Facility Development Agreement with the CDA for implementation of a project designed to remediate the South Archibald Plume. The proposed project includes the operation of three new CDA desalter wells (II-10, II-11, and II-12), and a dedicated pipeline to convey produced groundwater from the three new wells and existing CDA well I-11 to the Desalter II treatment facility. The Draft Feasibility Study and RAP will be finalized based on regulatory input from the Regional Board, and comments from the public and other stakeholders.



Chino II Desalter Treatment Facility

Chino Airport

In 1990, the Regional Board issued CAO No. 90-134 to the County of San Bernardino, Department of Airports (County) to address groundwater contamination originating from the Chino Airport. During 1991 to 1992, ten underground storage tanks and 310 containers of hazardous waste were removed, and 81 soil borings were drilled and sampled on the airport property. During 2003 to 2005, nine onsite monitoring wells were installed and used to collect groundwater quality samples. In 2007, the County conducted its first offsite monitoring effort, and in 2008, the Regional Board issued CAO No. R8-2008-0064, which requires the County to define the lateral and vertical extent of the plume and prepare a remedial action plan. From 2009 to 2012, Tetra Tech, the consultant to the County, conducted several off-site plume characterization studies to delineate the areal and vertical extent of the plume, and constructed 33 offsite monitoring wells. From 2013 to early-2015 Tetra Tech conducted an extensive investigation of several areas identified for additional characterization of soil and groundwater contamination; and at the conclusion of the work constructed an additional 33 groundwater monitoring wells on and adjacent to the Airport property. The County conducts quarterly and/or annual monitoring events at all 75 of their monitoring wells constructed to date. Conclusions from this monitoring program can be found in reports posted on the Regional Board's GeoTracker website. In September 2015, Tetra Tech submitted the *Semiannual Groundwater Monitoring Report, Winter and Spring 2015, Chino Airport Groundwater Assessment, San Bernardino County, California*.

Also in July 2015, Tetra Tech and the County presented an overview to the Regional Board on the results of the aforementioned comprehensive groundwater investigation that occurred from 2013 through early 2015, the construction of 33 new monitoring wells, and the proposed interim remedial action plan. For the interim remedial action plan, the County has proposed to design and construct a wellhead treatment system at existing CCWF well I-18 located in the center of the plume. Preliminary design is underway and negotiations have been initiated with the CDA to implement this remedy. The County is developing a site-specific groundwater model to evaluate remedial alternatives to assist in the preparation a feasibility study of the remedial alternatives for cleanup of plume contamination.

Watermaster periodically collects groundwater-quality samples from dedicated monitoring wells and private wells in and around the Chino Airport plume area. And, Watermaster has also used its calibrated groundwater model to estimate cleanup times and contaminant concentrations in the vicinity of the CCWF. This work will be updated, given new information about the extent of contamination, subsurface hydrogeology, well performance, and the need for habitat sustainability in the Prado Basin.

Other Water Quality Issues

Watermaster continues to track monitoring programs and mitigation measures associated with other point sources in the Chino Basin, including: Alumax Aluminum Recycling, Alger Manufacturing Facility, the Former Crown Coach Facility, General Electric Test Cell and Flatiron, Former Kaiser Steel Mill, Milliken Landfill, Upland Landfill, and the Stringfellow National Priorities List sites.

Optimum Basin Management Program

Program Element 8: Develop and Implement a Groundwater Storage Management Program; and Program Element 9: Develop and Implement a Storage and Recovery Program

Groundwater storage is important to the Chino Basin. Watermaster has committed to investigate the technical and management implications of Local Storage Agreements, improve related policies and procedures, and then revisit all pending Local Storage Agreement applications.

The existing Watermaster/IEUA/MWDSC/Three Valleys Municipal Water District Dry-Year Yield (DYY) program continues to be implemented. By April 30, 2011, all DYY program construction projects and a full “put” and “take” cycle had been completed, leaving the DYY storage account with a zero balance. During the reporting period no water was stored or withdrawn from storage in the DYY Program.

Safe Yield Redetermination

The Basin’s Safe Yield was initially set by the Judgment at 140,000 acre-feet per year. The Safe Yield was based in part on the hydrology of the period 1965 through 1974. Pursuant to the Judgment, the Chino Basin Safe Yield is to be re-determined periodically, but provides that the Safe Yield would not be reexamined for at least ten years from 1978. Pursuant to the OBMP Implementation Plan and Watermaster’s Rules and Regulations, in year 2010/11 and every ten years thereafter, Watermaster is to compute the Safe Yield based in part on the information obtained in the prior ten-year period and reset the Safe Yield for the next ten-year period.

In 2011, Watermaster authorized Watermaster staff to compile the data necessary to recalculate Safe Yield and update its computer model of the Basin and based on the information developed from the data and the model to recalculate the Safe Yield. The model calibration was completed in 2012, and evaluation of the Safe Yield began in 2013. During the prior reporting period, the Watermaster parties, pursuant to Watermaster Board direction, met intensively in a facilitated process to develop an agreement regarding the implementation of the recalculated Safe Yield. In this reporting period, the Watermaster parties concluded the process and developed substantial consensus as to an agreement to implement the recalculated Safe Yield. At its September 24, 2015 meeting, the Board adopted Resolution 2015-06, endorsing the 2015 Safe Yield Reset Agreement and directed Watermaster legal counsel to file the Agreement with the Court. Resolution 2015-06 was adopted by majority vote, with two of the nine Board members opposing the action. This agreement was filed with the Court on October 23, 2015 with a motion recommending the Court to reset the Safe Yield of the Chino Basin at 135,000 acre-feet per year. The hearing on this motion was scheduled for December 18, 2015. The Court continued the hearing to January 22, 2016 and then to February 26, 2016.

Optimum Basin Management Program

Staff Status Report 2016-1: January to June 2016



CHINO BASIN WATERMASTER

Optimum Basin Management Program

Highlighted Activities

- During this reporting period, Watermaster manually measured 395 water levels at 80 private wells throughout the Chino Basin, conducted two quarterly download events at about 130 wells containing pressure transducers, collected 46 groundwater-quality samples from private and dedicated monitoring wells, and collected four surface-water quality samples.
- Development and planning continues between the Chino Desalter Authority (CDA) and Watermaster to expand the Chino Desalters to an ultimate raw-water production capacity of 40,000 acre-feet per year, and to increase production at the CCWF wells to achieve hydraulic control in the western end of the Basin. In February 2016, groundwater production at CCWF Wells I-20 and I-21 commenced and total production from the CCWF well field is now at the level required to ensure de minimus outflow of groundwater from Chino North to the Prado Basin. With this accomplishment, the Watermaster has achieved full hydraulic control of the Chino Basin.
- As a requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent Environmental Impact Report (SEIR), Watermaster, the Inland Empire Utilities Agency (IEUA) and the Orange County Water District (OCWD) continued to develop a Prado Basin Habitat Sustainability Program (PBHSP). During this reporting period, the Prado Basin Habitat Sustainability Committee (PBHSC) reviewed and revised the draft Adaptive Management Plan, and convened a PBHSC meeting in April 2016 to present the draft 2016 Adaptive Management Plan. Additionally, Watermaster conducted the first two rounds of quarterly groundwater-level and -quality monitoring at the eighteen PBHSP monitoring wells.
- Watermaster continued implementation of the Northwest MZ-1 Work Plan, including the completion of a technical memorandum titled *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area*. The technical memorandum describes (1) the technical information that is required to develop a subsidence management plan for the Northwest MZ-1 Area, (2) the currently known technical information, and (3) a strategy to acquire the remaining necessary technical information through a monitoring and testing program.
- Watermaster and the IEUA are continuing to implement the 2013 Amendment to the 2010 Recharge Master Plan Update (2013 RMPU) pursuant to the October 2013 Court Order authorizing its implementation. During this reporting period, Watermaster and the IEUA continued developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPU report, prioritize the construction of these projects relative to the availability of grant funding, and to plan subsequent implementation.
- During this reporting period, stormwater recharge was approximately 5,229 acre-feet, recycled water recharge was approximately 7,225 acre-feet, and imported water recharge was zero acre-feet.
- Watermaster began its evaluation of the Safe Yield in 2013. In this reporting period, the Watermaster parties concluded the facilitated process and developed an agreement to implement the recalculated Safe Yield. This agreement was filed with the Court on October 23, 2015 with a motion recommending the Court to reset the Safe Yield of the Chino Basin at 135,000 acre-feet per year. The hearing on this motion was scheduled for December 18, 2015. The Court continued the hearing to September 23, 2016.

Important Court Hearings and Orders

- JANUARY 22, 2016 - HEARING AND ORDER RE-APPOINTING NINE-MEMBER BOARD FOR A FURTHER THREE-YEAR TERM
- FEBRUARY 4, 2016 - ORDER CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR FEBRUARY 26, 2016
- MARCH 22, 2016 - ORDER FOR ADDITIONAL BRIEFING AND CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR APRIL 8, 2016, TO MAY 6, 2016
- APRIL 25, 2016 - ORDER FOR ADDITIONAL BRIEFING AND CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR MAY 6, 2015, TO JUNE 10, 2016
- MAY 24, 2016 - ORDER CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR JUNE 10, 2016, TO JUNE 24, 2016
- JUNE 9, 2016 - ORDER CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR JUNE 24, 2016, TO JULY 29, 2016
- JUNE 27, 2016 - ORDER CONTINUING HEARING FOR ALL MATTERS CURRENTLY SCHEDULED FOR JULY 29, 2016 TO SEPTEMBER 23, 2016

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program

Groundwater Level Monitoring

Watermaster initiated a basin-wide groundwater-level monitoring program as part of the implementation of the Optimum Basin Management Program (OBMP). The monitoring program has been refined over time to satisfy the evolving needs of the Watermaster and the IEUA, such as new regulatory requirements and improved data coverage. The groundwater-level monitoring program supports many Watermaster functions, such as the periodic reassessment of Safe Yield, the monitoring and management of ground-level movement, the analysis of desalter pumping impacts at private wells, and the analysis of the implementation of the Peace II Agreement on groundwater levels and riparian vegetation in Prado Basin, the triennial re-computation of ambient water quality mandated by the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan), and the assessment of hydraulic control—a maximum-benefit commitment in the Basin Plan. The data are also used to update and re-calibrate Watermaster's computer-simulation groundwater-flow model, to understand directions of groundwater flow, to compute storage changes, to interpret water quality data, and to identify areas of the basin where recharge and discharge are not in balance.

The current groundwater-level monitoring program is comprised of about 1,180 wells. At about 970 of these wells, water levels are measured by well owners, which include municipal water agencies, the California Department of Toxic Substances Control (DTSC), the Counties, and various private consulting firms. Watermaster collects these water level data at least semi-annually. At the remaining 210 wells, water levels are measured by Watermaster staff using manual methods once per month or by using pressure transducers that record data once every 15 minutes. These wells are mainly Agricultural Pool wells or dedicated monitoring wells located south of the 60 freeway.

All groundwater-level data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. During this reporting period, Watermaster measured 395 manual water levels at 80 wells throughout the Chino Basin, and conducted two quarterly downloads at about 130 wells containing pressure transducers. Additionally, Watermaster compiled all available groundwater-level data from well owners in the basin for the October 2015 to March 2016 period.



Maintaining Transducer Equipment in One of the Well Sites

Groundwater Quality Monitoring

Watermaster initiated a comprehensive groundwater-quality monitoring program as part of the implementation of the OBMP. The monitoring program has been refined over time to satisfy the evolving needs of the Watermaster and the IEUA, such as new regulatory requirements, improved data coverage. The groundwater-quality data are used by Watermaster for: the biennial State of the Basin report; the triennial ambient water quality update; the demonstration of hydraulic control, monitoring nonpoint-source groundwater contamination and plumes associated with point-source discharges, and to assess the overall health of the groundwater basin. Groundwater-quality data are also used in conjunction with numerical models to assist Watermaster and other parties in evaluating proposed groundwater remediation strategies. The groundwater-quality monitoring program currently consists of the following five components:

1. An annual Key-Well Water-Quality Monitoring Program consisting of about 110 wells, which are mostly privately-owned agricultural wells in the southern portion of Chino Basin that are otherwise not included in an established sampling program. Twenty of these wells are sampled every year, and the remaining wells are sampled once every three years. The wells sampled annually are for the continuous monitoring of areas of concern associated with the southern edge of the South Archibald Plume, the southern region of the Chino Airport Plume, and the Kaiser Steel Mill Plume, and also includes two multi-port MZ-3 monitoring wells.
2. Annual sampling at nine HCMP multi-port monitoring wells strategically placed between the Chino Desalter well fields and the Santa Ana River. Results of the annual sampling are used to analyze the effect of desalter pumping over time on hydraulic control, by comparing water quality of the native groundwater and the Santa Ana River.
3. Quarterly sampling at four near-river wells to characterize the interaction between the Santa Ana River and nearby groundwater. These shallow monitoring wells along the Santa Ana River consist of two former US Geological Survey (USGS) National Water Quality Assessment Program wells (Archibald 1 and Archibald 2), and two wells owned by the Santa Ana River Water Company (Well 9 and Well 11).

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

4. Quarterly sampling of eighteen PBHSP monitoring wells located in nine locations near the fringes of riparian vegetation in the Prado Basin. The data will be used to support the assessment of the impacts from the implementation of the Peace II Agreement on groundwater levels and riparian vegetation in Prado Basin.
5. A cooperative basin-wide data-collection effort known as the Chino Basin Data Collection program, which relies on municipal producers and other government agencies to supply groundwater-quality data on a cooperative basis. These sources include the Chino Basin Appropriators, the DTSC, the Regional Water Quality Control Board (Regional Board), the USGS, the Counties, and other cooperators.

All groundwater-quality data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. During this reporting period, Watermaster collected 46 groundwater-quality samples from private and dedicated monitoring wells. Additionally, Watermaster compiled all available groundwater-quality data from other parties for the January to June 2015 period.

Groundwater Production Monitoring

All active agricultural production wells (except for minimum user wells) are now metered. Watermaster reads the production data from the meters on a quarterly basis and enters these data into Watermaster's relational database that can be accessed online through HydroDaVESM.

Surface Water Monitoring in the Santa Ana River

Surface Water Monitoring in the Santa Ana River. Watermaster measures selected water quality parameters at two sites along the Santa Ana River (Santa Ana River at River Road and Santa Ana River at Etiwanda) on a quarterly basis. Along with data collected at four near-river wells, these data are used to characterize the interaction between the Santa Ana River and nearby groundwater. During this reporting period, Watermaster collected four surface-water quality samples.

Hydraulic Control

In January 2004, the Regional Board amended the Basin Plan to incorporate an updated total dissolved solids (TDS) and nitrogen (N) management plan. The Basin Plan amendment includes both "antidegradation" and "maximum benefit" objectives for TDS and nitrate-N for the Chino-North and Cucamonga groundwater management zones (GMZs). The maximum benefit objectives allow for the reuse and recharge of recycled water and the recharge of imported water without mitigation; these activities are an integral part of the OBMP. The application of the maximum-benefit objectives is contingent on Watermaster and the IEUA's implementation of specific projects and requirements termed the maximum-benefit commitments.

One of the main maximum-benefit commitments is to achieve and maintain "hydraulic control" of the Chino Basin so that downstream beneficial uses of the Santa Ana River are protected. Hydraulic control is defined by the Basin Plan as the elimination of groundwater discharge from the Chino-North GMZ to the Santa Ana River or its reduction to a de minimus level. In October 2011, the Regional Board indicated that groundwater discharge from the Chino-North GMZ to the Prado Basin surface water management zone (Prado Basin) in an amount less than 1,000 acre-feet per year is considered de minimus.

Two of the maximum-benefit commitments are to implement surface and groundwater monitoring programs. On April 15, 2005, the Regional Board adopted resolution R8-2005-0064, approving Watermaster and the IEUA's surface and groundwater monitoring programs. These monitoring programs were conducted pursuant to the 2005 work plan until 2012, when the Basin Plan was amended to remove all references to the specific monitoring locations and sampling frequencies required for groundwater and surface water monitoring. The Basin Plan amendment allowed for the monitoring programs to be modified over time on a go-forward basis, subject to the approval of the Executive Officer of the Regional Board. The Basin Plan amendment was approved by the Regional Board on February 12, 2012 and by the State Office of Administrative Law on December 6, 2012. This amendment was adopted based on demonstrations made by Watermaster and the IEUA showing that the surface water monitoring program, as explicitly described in the Basin Plan, was not meaningfully adding to the body of evidence required to demonstrate hydraulic control. In the place of specific monitoring requirements, the Basin Plan required that Watermaster and the IEUA submit for approval by the Executive Officer a new surface water monitoring program work plan by February 25, 2012 and a new groundwater monitoring program work plan by December 31, 2013. In February 2012, Watermaster and the IEUA submitted, and the Regional Board approved, a new surface water monitoring program that reduced the 2005 monitoring program from bi-weekly surface water quality measurements at 17 sites and direct discharge measurements at six sites, to quarterly surface water quality sampling at two sites. The new work plan including these changes was adopted by the Regional Board in March 2012.

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

In December 2013, Watermaster and the IEUA submitted an updated *Maximum Benefit Monitoring Program Work Plan and Proposed Schedule for Achieving Hydraulic Control* to the Regional Board. The updated Work Plan states that Watermaster and the IEUA will recalibrate the Chino Basin groundwater model every five years and use the model to estimate groundwater discharge from the Chino-North GMZ to the Santa Ana River (i.e. annual underflow past the CCWF) and determine whether hydraulic control has been achieved. The new Maximum Benefit Monitoring Program Work Plan was adopted by the Regional Board in April 2014.

In January 2014, in a letter to Watermaster and the IEUA, the Regional Board confirmed that the model results indicated that hydraulic control would be achieved under the projected range of pumping at the CCWF. The Regional Board also requested that Watermaster and the IEUA submit a plan and schedule to increase desalter production capacity from 32,000 to 40,000 acre-feet per year by May 31, 2014. Watermaster and the IEUA submitted a plan and schedule to the Regional Board on May 30, 2014 to install three new desalter wells—with the location of one well being provisional. On June 30, 2015 Watermaster and the IEUA submitted a final plan and schedule for the construction and operation of the three new desalter wells including the final well locations.

During this reporting period, Watermaster continued implementing the surface and groundwater monitoring programs required by the maximum benefit commitments. As described in the Program Element 1 update herein, Watermaster measured 395 manual water levels at 80 wells throughout the Chino Basin, conducted two quarterly downloads at about 130 wells containing pressure transducers, collected 46 groundwater-quality samples at private and dedicated monitoring wells and collected four surface-water quality samples. And in February 2016, groundwater production at the CCWF commenced and reached a level of production that reduced groundwater discharge from Chino-North to the Prado Basin to a de minimus level and thus achieving full hydraulic control.

Prado Basin Habitat Sustainability Monitoring Program

A requirement of Mitigation Measure 4.4-3 from the Peace II SEIR is for Watermaster, the IEUA, and the OCWD to develop an Adaptive Management Plan for the PBHSP and to form the Prado Basin Habitat Sustainability Committee (PBHSC), convened by Watermaster and the IEUA, to implement the Adaptive Management Plan. The objective of this plan is to ensure that the riparian habitat in Prado Basin is not adversely impacted by drawdown associated with the implementation of the Peace II activities. Sixteen monitoring wells at nine sites were constructed in April and May 2015 as part of the monitoring program for the PBHSP. Two existing wells will also be monitored as part of the PBHSP. The PBHSC is developing the Adaptive Management Plan to describe an initial monitoring program and a process to modify the monitoring program and/or implement mitigation strategies, as necessary.

During this reporting period, the PBHSC reviewed and revised the draft Adaptive Management Plan, and convened a PBHSC meeting in April 2016 to present the draft 2016 Adaptive Management Plan. A final 2016 Adaptive Management Plan for the PBHSP will be completed later in the year. Additionally, Watermaster collected two rounds of quarterly groundwater-quality samples and conducted two quarterly downloads of pressure transducers that measure water levels at the eighteen PBHSP monitoring wells.

Chino Basin Groundwater Recharge Program

Watermaster, the IEUA, the Chino Basin Water Conservation District, and the San Bernardino County Flood Control District jointly sponsor the Chino Basin Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve the groundwater quality in local drinking water wells by increasing the recharge of storm, imported, and recycled waters. The recharge program is regulated under RWQCB Order No. R8-2007-0039 and Monitoring and Reporting Program No. R8-2007-0039.

Watermaster and the IEUA measure the quantity of storm and supplemental water that enters into recharge basins using pressure transducers or staff gauges that measure water levels during recharge operations. They also collect weekly water quality samples from recharge basins that are actively recharging recycled water and from lysimeters installed within those recharge basins. Additionally, imported water quality data for State Water Project water are obtained from the Metropolitan Water District of Southern California (MWDSC) and recycled water quality data for the RP-1 and RP-4 treatment plant effluents are obtained from the IEUA. Combining the measured flow data with the respective water qualities enables the calculation of the blended water quality of the recharge sources in each recharge basin and assess if there is adequate dilution of recycled water as required by the recycled water recharge permits held with the Department of Drinking Water (DDW). Additionally, the measurements of recharge are used to estimate the New Yield to the Chino Basin as a result of the recharge activities.



Brooks Basin After a Rain Storm Event

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

Recharge Activities. During this reporting period, ongoing recycled water recharge occurred in the Brooks, 7th Street, 8th Street, Turner, Ely, Hickory, DeClez, RP-3, and Banana Basins; stormwater was recharged at 16 recharge basins across all management zones of the Chino Basin; and no imported water was recharged.

Monitoring Activities. During this reporting period, the IEUA performed its on-going monitoring program to measure and record recharge volumes and collect stormwater quality samples pursuant to its permit requirements. Also, during this reporting period, approximately 286 recharge basin and lysimeter samples were collected and 26 recycled water samples were collected for alternative monitoring plans that include the application of a correction factor for soil-aquifer treatment determined from each recharge basin's start-up period. Monitoring wells located down-gradient of the recharge basins were sampled, at a minimum, on a quarterly basis; however, some monitoring wells were sampled more frequently during the reporting period for a total of 141 samples.

Reporting. Watermaster and the IEUA completed the following required reports concerning the recharge program during the reporting period:

- 4Q-2015 Quarterly Report, submitted to the RWQCB – February 2016
- 1Q-2015 Quarterly Report, submitted to the RWQCB – May 2016
- 2015 Annual Report, submitted to the RWQCB – May 2016

Ground-Level Monitoring

In response to the occurrence of land subsidence in the City of Chino, the Watermaster prepared and submitted a subsidence management plan (known as the MZ-1 Plan) to the Court for approval and, in November 2007, the Court ordered its implementation (see the update in this report under Program Element 4 for more on the MZ-1 Plan implementation). The MZ-1 Plan called for several monitoring and mitigation measures to minimize or abate the future occurrence of land subsidence and ground fissuring in the western Chino Basin. These measures and activities included:

- Continuing the scope and frequency of monitoring within the so-called Managed Area (southwest MZ-1) that was conducted during the period when the MZ-1 Plan was being developed.
- Expanding the monitoring of the aquifer system and ground-level movement into other areas of MZ-1 and Chino Basin where the data indicate concern for future subsidence and ground fissuring.
- Monitoring of horizontal strain across the historical zone of ground fissuring.
- Evaluating the potential contribution of groundwater production in northern MZ-1 on ground-level conditions in southern MZ-1.
- Conducting additional testing and monitoring to refine the MZ-1 Guidance Criteria.
- Developing alternative pumping plans for the MZ-1 producers that are impacted by the MZ-1 Plan.
- Constructing and testing a lower-cost cable extensometer facility at Ayala Park.
- Evaluating and comparing ground-level surveying and Interferometric Synthetic Aperture Radar (InSAR), and recommending future monitoring protocols for both techniques.
- Conducting an aquifer storage recovery (ASR) feasibility study at a City of Chino Hills production well within the MZ-1 Managed Area (Well 16).
- Providing for recovery of groundwater levels in the MZ-1 Managed Area.

Since the initial MZ-1 Plan was adopted by the Watermaster in 2007, Watermaster has conducted the annual Ground-Level Monitoring Program (GLMP) to implement the monitoring and reporting program. The main results and recommendations of the GLMP were that very little permanent land subsidence has occurred in the MZ-1 Managed Area, which indicates that subsidence is being successfully managed in this area; and that land subsidence has been occurring in the Northwest MZ-1 Area. Of particular concern is that subsidence in Northwest MZ-1 has occurred differentially across the San Jose Fault—the same pattern of differential subsidence that occurred in the MZ-1 Managed Area during the time of ground fissuring.

Optimum Basin Management Program

Program Element 1: Develop and Implement a Comprehensive Monitoring Program (Continued)

Based on these results, Watermaster determined that the subsidence management plan needed to be updated to include a *Subsidence Management Plan for the Northwest MZ-1 Area* with the long-term objective to minimize or abate the occurrence of the differential land subsidence. Thus, the Watermaster expanded the GLMP into the Northwest MZ-1 Area and prepared a draft *2015 Chino Basin Subsidence Management Plan (SMP)*, which included the *Work Plan to Develop a Subsidence-Management Plan for the Northwest MZ-1 Area (Work Plan)* as an appendix.

During this reporting period, Watermaster undertook the following activities called for in the SMP:

- Continued high-resolution water-level monitoring at wells within the Managed Area and within the Areas of Subsidence Concern. All monitoring equipment is inspected at least quarterly and is repaired and/or replaced as necessary. The data collected were checked and analyzed to assess the functionality of the monitoring equipment and for compliance with the MZ-1 Plan.
- Continued monitoring and maintenance at the extensometer facilities at the Ayala Park, Chino Creek, and Daniels sites. Specifically, decommissioned and completely removed the Daniels Horizontal Extensometer facility. A new planned development at the site necessitated the removal of the facility.
- Collected InSAR data scenes across the western Chino Basin from the German Aerospace Center's TerraSAR-X satellite. Worked with the City of Chino to preserve a ground-level survey benchmark on Kimball Avenue that will be destroyed in the widening of the intersection of Kimball Avenue and Rincon Meadows.
- Conducted ground-level surveys and electronic distance measurements (EDMs) at benchmarks in the Southeast Area, the MZ-1 Managed Area, and the San Jose Fault Zone.
- Continued the Long-Term Pumping Test in the MZ-1 Managed Area. Specifically, the City of Chino Hills modified and tested the wellhead-treatment facility at CH-15B. No significant pumping at the well occurred that resulted in declining water levels at PA-7 to below the Guidance Level.
- Continued implementation of the Northwest MZ-1 Work Plan, including:
 - Installed transducers within wells in the Study Area to measure and record piezometric levels. Collected, processed and checked groundwater level data and production data from wells in the Study Area monthly.
 - Developed a one-dimensional aquifer-system compaction model that will be used to estimate past and future land subsidence in the Northwest MZ-1 Area.
 - Conducted research and discussions with insurance agencies to determine the feasibility and methodology to insure against damages related to land subsidence.
 - Developed multiple groundwater production and wet-water recharge scenarios for the Northwest MZ-1 Area in support of developing an Initial Subsidence-Management Alternative (ISMA). These scenarios were incorporated into the most recent Chino Basin Groundwater Model and evaluated to assess the groundwater-level response to each scenario.

Program Element 2: Develop and Implement a Comprehensive Recharge Program

The objectives of the comprehensive recharge program include enhancing the yield of the Chino Basin through the development and implementation of a Recharge Master Plan to improve, expand, and construct recharge facilities that enable the recharge of storm, recycled, and imported waters; ensuring a balance of recharge and discharge in the Chino Basin management zones, and ensuring that sufficient storm and imported waters are recharged to comply with recycled water dilution requirements in Watermaster and the IEUA's recycled water recharge permits.

Pursuant to PE2 of the OBMP, Watermaster and the IEUA partnered with the San Bernardino County Flood Control District and the Chino Basin Water Conservation District to construct and/or improve eighteen recharge sites. This project was known as the Chino Basin Facilities Improvement Project (CBFIP). The average annual stormwater recharge of the CBFIP facilities is approximately 13,000 acre-feet per year, the supplemental "wet"¹ water recharge capacity is approximately 59,100 acre-feet per year, and the in-lieu supplemental water recharge capacity ranges from 25,000 to 40,000 acre-feet per year. In addition to the CBFIP facilities, the Monte Vista Water District has five ASR wells with a demonstrated well injection capacity of 5,600 acre-feet per year. The current total supplemental water recharge capacity ranges from 91,200 to 106,200 acre-feet per year which is greater than the projected supplemental water recharge capacity required by Watermaster.

¹The modifier "wet" means actual physical water is being recharged in spreading basins as opposed to the dedication of water from storage or in-lieu recharge.

Optimum Basin Management Program

Program Element 2: Develop and Implement a Comprehensive Recharge Program (Continued)

In 2008, Watermaster began preparing the *2010 Recharge Master Plan Update* (2010 RMPU) pursuant to the December 21, 2007 Court Order (the Peace II Agreement) to complete a Recharge Master Plan Update by July 1, 2010. In October 2010, the Court accepted the 2010 RMPU as satisfying the condition and ordered that certain recommendations of the 2010 RMPU be implemented. In November 2011, Watermaster reported its progress to the Court pursuant to the October 2010 Court Order; after which, in December 2011, the Court issued an order directing Watermaster to continue with its implementation of the 2010 RMPU per its October 2010 order but with a revised schedule. And, on December 15, 2011, the Watermaster Board moved to:

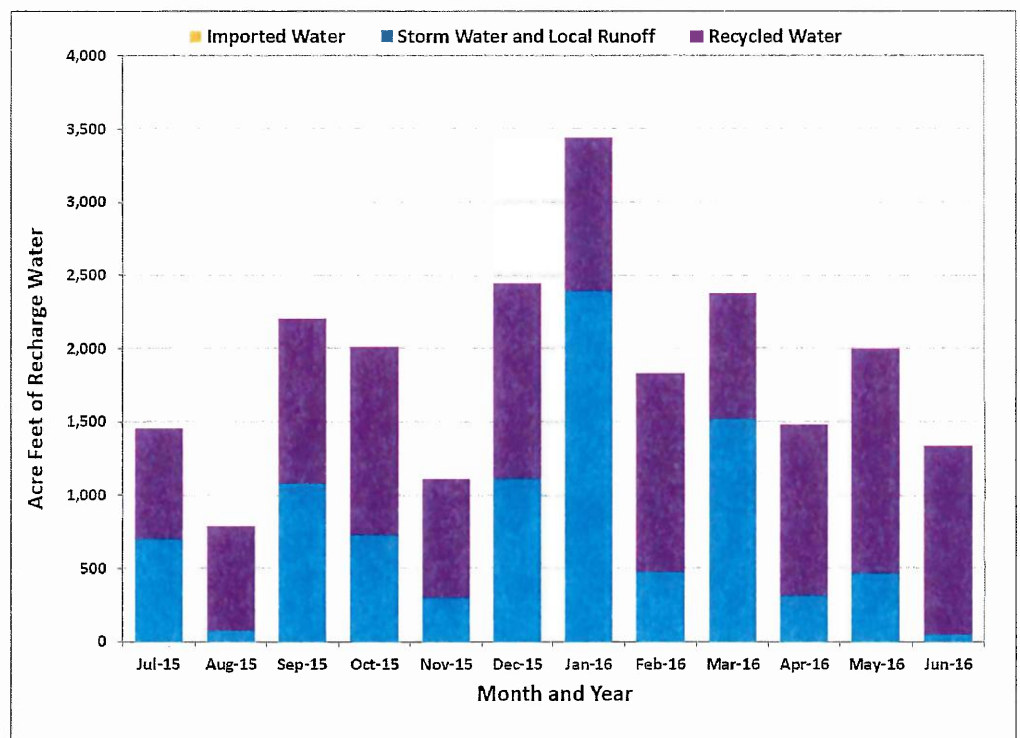
“approve that within the next year there will be the completion of [a] Recharge Master Plan Update, there will be the development of an Implementation Plan to address balance issues within the Chino Basin subzones, and the development of a Funding Plan, as presented.”

This motion led to the development of an update to the 2010 RMPU and in 2012, Watermaster staff sent out a “call for projects” to the Watermaster parties, seeking their recommendations for recharge improvement projects that should be considered in the update. The *2013 Update to the 2010 Recharge Master Plan Update* (2013 RMPU) outlines the recommended projects to be implemented by Watermaster, and lays out the implementation plan and financing plan. The 2013 RMPU report was approved by the Watermaster Board in September 2013 and filed with the Court in October 2013. In December 2013, the Court approved the 2013 RMPU with the exception of Section 5 that dealt with the accounting for new recharge from Municipal Separate Stormwater Sewer Systems which was later approved by the Court in April 2014.

2013 RMPU Implementation. Watermaster and the IEUA are continuing the process to carry out the October 2013 Court Order authorizing Watermaster and the IEUA to implement the 2013 RMPU. During the reporting period, Watermaster and the IEUA continued developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPU report, prioritizing the construction of these projects relative to the availability of grant funding.

Additionally, Watermaster and the IEUA continued to develop a series of projects outside of the 2013 RMPU effort that will increase and/or facilitate stormwater and supplemental water recharge and have jointly agreed to fund these projects. These projects include monitoring upgrades, habitat conservation, and a potential new recharge basin. Watermaster’s share of the cost of these projects was included in the budget adopted by Watermaster for fiscal 2015/16.

The Recharge Improvements Project Committee met monthly on the progress of implementing the 2013 RMPU Projects and other recharge-related projects.



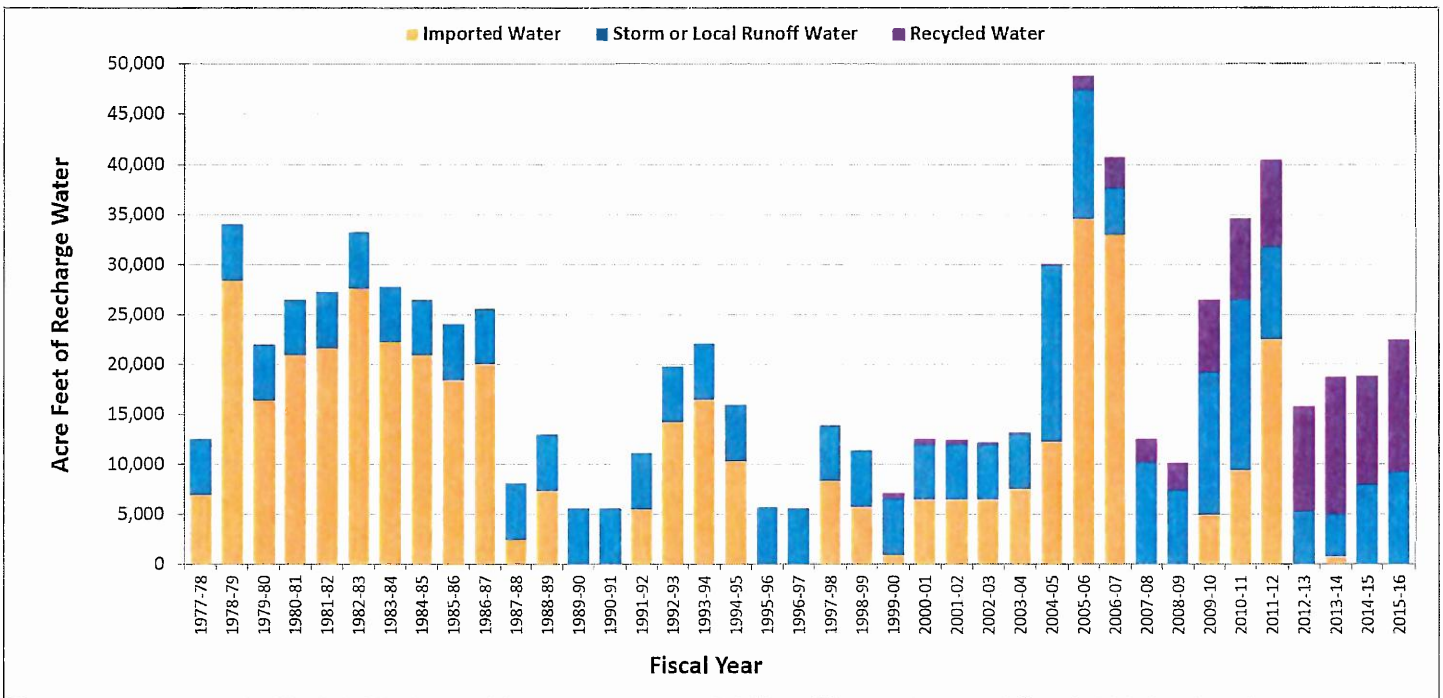
Recharge for Dilution of Recycled Water. In fiscal year 2009/10, Watermaster and the IEUA’s recharge permit was amended to allow for existing underflow dilution and extended the period for calculating dilution from a running 60-month to a running 120-month period. Additionally, the IEUA has worked with the DDW to obtain approval to increase the allowable recycled water contribution (RWC) at wells to 50 percent. These permit amendments allow for increased recycled water recharge without having to increase the amount of imported and storm waters required for dilution. The IEUA projects its dilution requirements as part of its annual reporting to the DDW. Based on the latest Annual Report (May 2016), the IEUA projects that dilution requirements will be met through 2020, even if no imported water were available for dilution.

Optimum Basin Management Program

Program Element 2: Develop and Implement a Comprehensive Recharge Program (Continued)

Recharge Activities. During this reporting period, stormwater recharge was approximately 5,229 acre-feet, recycled water recharge was approximately 7,225 acre-feet, and imported water recharge was zero acre-feet.

Balance of Recharge and Discharge in MZ-1. The total amount of supplemental water recharged in MZ-1 since the Peace II Agreement through June 30, 2016 was approximately 47,781 acre-feet, which is almost 11,000 acre-feet less than the 58,500 acre-feet that was required to be recharged by June 30, 2016 (annual requirement of 6,500 acre-feet); the shortfall of 6,390 acre-feet will be recharged in MZ-1 in subsequent years as supplemental water becomes available. The amount of supplemental water recharged into MZ-1 during the reporting period was approximately 2,171 acre-feet.



Program Element 3: Develop and Implement Water Supply Plan for the Impaired Areas of the Basin; and

Program Element 5: Develop and Implement Regional Supplemental Water Program

The Chino I Desalter Expansion and the Chino II Desalter facilities were completed in February 2006. As currently configured, the Chino I Desalter produces about 13,500 acre-feet per year (12.1 million gallons per day [MGD]) of groundwater at 15 wells (I-1 through I-15) that is treated through air stripping (volatile organic compound [VOC] removal), ion exchange (nitrate removal), and/or reverse osmosis (for nitrate and TDS removal). The Chino II Desalter produces about 15,800 acre-feet per year (14.1 MGD) of groundwater at eight wells (II-1 through II-4 and II-6 through II-9) that is treated through ion exchange and/or reverse osmosis. Development and planning continues between the CDA and Watermaster to expand the production and treatment capacity of the Chino Desalters by about 10,500 acre-feet per year (9.5 MGD). More than \$77 million in grant funds have been secured toward this expansion.

The most recent expansion project completed includes the construction of five wells for the new CCWF (wells I-16, I-17, I-18, I-20 and I-21), which were required to meet the hydraulic control commitment associated with maximum benefit, and will provide additional raw water to the Chino I Desalter. Production at wells I-16 and I-17 began in mid-2014, production at wells I-20 and I-21 began in early 2016, and well I-18 is currently not planned for operation by the CDA due to high concentrations of VOCs.

Optimum Basin Management Program

Program Element 3: Develop and Implement Water Supply Plan for the Impaired Areas of the Basin; and Program Element 5: Develop and Implement Regional Supplemental Water Program (Continued)

Three additional wells are planned for construction to provide additional raw water to the Chino II Desalter and are required to meet the maximum-benefit commitment to produce a total of 40,000 acre-feet per year from the combined desalter well fields. This amount was determined in the OBMP Phase I report as the production necessary to maintain hydraulic control. Watermaster and the IEUA coordinated with the CDA to develop a plan to achieve the 40,000 acre-feet per year of desalter production and submitted a preliminary plan to the Regional Board on May 30, 2014. A final plan was submitted to the Regional Board on June 30, 2015 and includes the construction and operation of three new wells for the Chino II Desalter (II-10, II-11, and II-12). The construction of wells II-10 and II-11 was completed in late-2015. The location of the third well, II-12, is in the land acquisition process and construction is anticipated to begin in late-2016.

During this reporting period, production at CCWF wells I-20 and I-21 began in February 2016 and total production from the CCWF well field is now at the level required to ensure de minimus outflow of groundwater from Chino North to the Prado Basin. With this accomplishment, the Watermaster has achieved full hydraulic control of the Chino Basin..

Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1

MZ-1 Management Plan

Because of the historical occurrence of pumping-induced land subsidence and ground fissuring in southwestern Chino Basin (southern MZ-1), the OBMP called for the development and implementation of an Interim Management Plan (IMP) for MZ-1 that would:

- minimize subsidence and fissuring in the short-term,
- collect information necessary to understand the extent, rate, and mechanisms of subsidence and fissuring, and
- formulate a management plan to reduce to tolerable levels or abate future subsidence and fissuring.

From 2001-2005, Watermaster developed, coordinated, and conducted an IMP under the guidance of the MZ-1 Technical Committee. The investigation provided enough information for Watermaster to develop Guidance Criteria for the MZ-1 producers in the investigation area that, if followed, would minimize the potential for subsidence and fissuring during the completion of the MZ-1 Plan. The Guidance Criteria included a listing of Managed Wells and their owners subject to the criteria, a map of the so-called Managed Area, and an initial threshold water level (Guidance Level) of 245 feet below the top of the PA-7 well casing. The MZ-1 Summary Report and the Guidance Criteria were adopted by the Watermaster Board in May 2006. The Guidance Criteria formed the basis for the MZ-1 Plan, which was approved by Watermaster in October 2007. The Court approved the MZ-1 Plan in November 2007 and ordered its implementation. Watermaster has implemented the MZ-1 Plan since this time, including the ongoing Ground-Level Monitoring Program (GLMP) called for by the MZ-1 Plan (refer to the update in this report under Program Element 1).

The MZ-1 Plan states that if data from existing monitoring efforts in the so-called Areas of Subsidence Concern indicate the potential for adverse impacts due to subsidence, Watermaster will revise the MZ-1 Plan pursuant to the process outlined in Section 3 of the MZ-1 Plan. In early 2015, Watermaster prepared an update to the MZ-1 Plan, which included a name change to the *2015 Chino Basin Subsidence Management Plan (SMP)* and a *Work Plan to Develop the Subsidence Management Plan for the Northwest MZ-1 Area (Work Plan)* as an appendix. The SMP and the Work Plan were adopted through the Watermaster Pool process during July 2015.

The Watermaster continues to implement the MZ-1 Plan, and now the SMP and Work Plan. The data, analysis, and reports generated through the implementation of the plans are reviewed and discussed by the Ground-Level Monitoring Committee (GLMC), which meets on a periodic basis throughout the year. The GLMC is open to all interested participants, including the Watermaster Parties and their consultants. During this reporting period, Watermaster undertook the following data analysis and reporting tasks:

- Reviewed water levels at the PA-7 piezometer and determined that levels remained above the Guidance Level during the reporting period, and very little, if any, permanent compaction was recorded at the Ayala Park Extensometer.
- The data, results, and conclusions of the information generated from the GLMP were incorporated into the draft *2015 Annual Report of the Ground-Level Monitoring Committee*.

Optimum Basin Management Program

Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1 (Continued)

- Completed a technical memorandum titled *Initial Hydrogeologic Conceptual Model and the Monitoring and Testing Program for the Northwest MZ-1 Area*. The technical memorandum describes (1) the technical information that is required to develop a subsidence management plan for the Northwest MZ-1 Area, (2) the currently known technical information, and (3) a strategy to acquire the remaining necessary technical information through a monitoring and testing program.
- The GLMC met in March, April, and May 2016. The meeting on April 4, 2016 was conducted via conference call. The following was discussed at these meetings:
 - The status of and data collected for the GLMP.
 - The removal of the Daniels Horizontal Extensometer and construction of a new horizontal extensometer in the Managed Area.
 - The initial conceptual model for the Northwest MZ-1 Area.
 - The proposed scope and budget for the GLMP for fiscal year 2016-17.



Removal of the Daniels Horizontal Extensometer

Program Element 6: Develop and Implement Cooperative Programs with the Regional Water Quality Control Board, Santa Ana Region and Other Agencies to Improve Basin Management; and Program Element 7: Develop and Implement a Salt Management Program

South Archibald Plume

In July 2005, the Regional Board prepared draft Cleanup and Abatement Orders (CAOs) for six parties who were tenants on the Ontario Airport with regard to the South Archibald TCE Plume. The draft CAOs required the parties to “submit a work plan and time schedule to further define the lateral and vertical extent of the TCE and related VOCs that are discharging, have been discharged, or threaten to be discharged from the site” and to “submit a detailed remedial action plan, including an implementation schedule, to cleanup or abate the effects of the TCE and related VOCs.” Four of the six parties (Aerojet-General Corporation, The Boeing Company, General Electric, and Lockheed Martin) voluntarily formed a group known as ABGL to work jointly on a remedial investigation. Northrop Grumman declined to participate in the group. The US Air Force, in cooperation with the US Army Corps of Engineers, funded the installation of one of the four clusters of monitoring wells installed by the ABGL parties.

In 2008, the Regional Board staff conducted research pertaining to the likely source of the TCE contamination, and identified discharges of wastewater that may have contained TCE to the RP-1 treatment plant and associated disposal areas to be a potential source. 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’s sewage systems and subsequently 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 the IEUA as the previous and current operators of the RP-1 treatment plant and disposal area (collectively, the RP-1 parties). In part, the draft CAOs requires the RP-1 parties to “supply uninterrupted replacement water service...to all residences south of Riverside Drive that are served by private domestic wells at which TCE has been detected at concentrations at or exceeding 5 µg/L...” and to report this information to the Regional Board. In addition, the RP-1 parties are to “prepare and submit [a] ...feasibility study” and “prepare, submit and implement the Remedial Action Plan” to mitigate the “effects of the TCE groundwater plume.”

In 2016, the Regional Board issued final language for the Stipulated Settlement and CAO No. R8-2016-0016 to the parties issued draft CAOs, with the exception of Northrop Grumman Corporation. The final CAO will become effective pending all identified parties’ signatures.

Under the Regional Board’s oversight, sampling at private residential wells and taps has been conducted approximately every two years (2007-2008, 2009, 2011, 2013-2014) by multiple parties in the region where groundwater is potentially contaminated with TCE. As of 2014, all private residences in the area of the plume have been sampled at least once. Alternative water systems (tanks) have been installed at residences in the area where well water contains TCE at or above 80% of the MCL for TCE. Residents who declined tank system are being provided bottled water. Watermaster also routinely samples for water quality at private wells in the area, and uses data obtained from this monitoring to delineate the spatial extent of the plume.

Optimum Basin Management Program

Program Element 6: Develop and Implement Cooperative Programs with the Regional Water Quality Control Board, Santa Ana Region and Other Agencies to Improve Basin Management; and

Program Element 7: Develop and Implement a Salt Management Program (Continued)

Many of the parties are pursuing various grant funding opportunities to help finance the remediation strategy. This includes applications submitted to the United States Bureau of Reclamation, which resulted in a \$3 million award to the parties. The RP-1 Parties have entered into a Cost Sharing Agreement to fund the South Archibald Plume Cleanup Project. In July 2015, they completed the *Draft Feasibility Study Report for the South Archibald Plume* (Feasibility Study). The Feasibility Study establishes clean-up objectives for both domestic water supply and plume remediation, and evaluates alternatives to accomplish these objectives. A *Draft Remedial Action Plan* (RAP) was concurrently prepared and published in August 2015. Two community meetings were convened 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, a revised Draft Feasibility Study, RAP, and Responses to Comments were completed to address input from the public, ABGL, and others.

The preferred plume remediation alternative identified in the Draft Feasibility Study and RAP involves the use of existing and proposed CDA production wells and facilities. The RP-1 Parties reached a Joint Facility Development Agreement with the CDA for implementation of a project designed to remediate the South Archibald Plume. The proposed project includes the operation of three new CDA desalter wells (II-10, II-11, and II-12), and a dedicated pipeline to convey produced groundwater from the three new wells and existing CDA well I-11 to the Desalter II treatment facility. The Draft Feasibility Study and RAP will be finalized based on regulatory input from the Regional Board, and comments from the public and other stakeholders.

Chino Airport

In 1990, the Regional Board issued CAO No. 90-134 to the County of San Bernardino, Department of Airports (County) to address groundwater contamination originating from the Chino Airport. During 1991 to 1992, ten underground storage tanks and 310 containers of hazardous waste were removed, and 81 soil borings were drilled and sampled on the airport property. During 2003 to 2005, nine onsite monitoring wells were installed and used to collect groundwater quality samples. In 2007, the County conducted its first offsite monitoring effort, and in 2008, the Regional Board issued CAO No. R8-2008-0064, which requires the County to define the lateral and vertical extent of the plume and prepare a remedial action plan. From 2009 to 2012, Tetra Tech, the consultant to the County, conducted several off-site plume characterization studies to delineate the areal and vertical extent of the plume, and constructed 33 offsite monitoring wells. From 2013 to early-2015 Tetra Tech conducted an extensive investigation of several areas identified for additional characterization of soil and groundwater contamination; and at the conclusion of the work constructed an additional 33 groundwater monitoring wells on and adjacent to the Airport property. The County conducts quarterly and/or annual monitoring events at all 75 of their monitoring wells constructed to date. Conclusions from this monitoring program can be found in reports posted on the Regional Board's GeoTracker website. In February 2016, Tetra Tech submitted the *Semiannual Groundwater Monitoring Report, Summer and Fall 2015, Chino Airport Groundwater Assessment, San Bernardino County, California*.

In July 2015, Tetra Tech and the County presented an overview to the Regional Board on the results of the aforementioned comprehensive groundwater investigation that occurred from 2013 through early 2015, the construction of 33 new monitoring wells, and the proposed interim remedial action plan. For the interim remedial action plan, the County has proposed to design and construct a wellhead treatment system at existing CCWF well I-18 located in the center of the plume. Preliminary design is underway and negotiations have been initiated with the CDA to implement this remedy. The County is developing a site-specific groundwater model to evaluate remedial alternatives to assist in the preparation a feasibility study of the remedial alternatives for cleanup of plume contamination.

Watermaster periodically collects groundwater-quality samples from dedicated monitoring wells and private wells in and around the Chino Airport plume area. And, Watermaster has also used its calibrated groundwater model to estimate cleanup times and contaminant concentrations in the vicinity of the CCWF. This work will be updated, given new information about the extent of contamination, subsurface hydrogeology, well performance, and the need for habitat sustainability in the Prado Basin.

Other Water Quality Issues

Watermaster continues to track monitoring programs and mitigation measures associated with other point sources in the Chino Basin, including: Alumax Aluminum Recycling, Alger Manufacturing Facility, the Former Crown Coach Facility, General Electric Test Cell and Flatiron, Former Kaiser Steel Mill, Milliken Landfill, Upland Landfill, and the Stringfellow National Priorities List sites.

Optimum Basin Management Program

Program Element 8: Develop and Implement a Groundwater Storage Management Program; and Program Element 9: Develop and Implement a Storage and Recovery Program

Groundwater storage is important to the Chino Basin. Watermaster has committed to investigate the technical and management implications of Local Storage Agreements, improve related policies and procedures, and then revisit all pending Local Storage Agreement applications.

The existing Watermaster/IEUA/MWDSC/Three Valleys Municipal Water District Dry-Year Yield (DYY) program continues to be implemented. By April 30, 2011, all DYY program construction projects and a full “put” and “take” cycle had been completed, leaving the DYY storage account with a zero balance. During the reporting period no water was stored or withdrawn from storage in the DYY Program.

Safe Yield Redetermination

The Basin’s Safe Yield was initially set by the Judgment at 140,000 acre-feet per year. The Safe Yield was based in part on the hydrology of the period 1965 through 1974. Pursuant to the Judgment, the Chino Basin Safe Yield is to be re-determined periodically, but provides that the Safe Yield would not be reexamined for at least ten years from 1978. Pursuant to the OBMP Implementation Plan and Watermaster’s Rules and Regulations, in year 2010/11 and every ten years thereafter, Watermaster is to compute the Safe Yield based in part on the information obtained in the prior ten-year period and reset the Safe Yield for the next ten-year period.

In 2011, Watermaster authorized Watermaster staff to compile the data necessary to recalculate Safe Yield and update its computer model of the Basin and based on the information developed from the data and the model to recalculate the Safe Yield. The model calibration was completed in 2012, and evaluation of the Safe Yield began in 2013. During fiscal year 2014/15, the Watermaster parties, pursuant to Watermaster Board direction, met intensively in a facilitated process to develop an agreement regarding the implementation of the recalculated Safe Yield. In the prior reporting period, the Watermaster parties concluded the facilitated process and developed an agreement to implement the recalculated Safe Yield. At its September 24, 2015 meeting, the Board adopted Resolution 2015-06, endorsing the 2015 Safe Yield Reset Agreement and directed Watermaster legal counsel to file the Agreement with the Court. Resolution 2015-06 was adopted by majority vote, with two of the nine Board members opposing the action. The agreement was filed with the Court on October 23, 2015 with a motion recommending the Court to reset the Safe Yield of the Chino Basin at 135,000 acre-feet per year. The hearing on this motion was originally scheduled for December 18, 2015. During this reporting period, the Court continued the hearing to September 23, 2016.

CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

D. SGMA ANNUAL REPORTING SUBMITTAL



CHINO BASIN WATERMASTER

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PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017

TO: Board Members

SUBJECT: Chino Basin Watermaster Submittal of Annual Reporting Requirements for Adjudicated Basins Pursuant to the Sustainable Groundwater Management Act (SGMA) (Consent Calendar Item. I.D.)

SUMMARY

Issue: Pursuant to the SGMA, Water Code Section 10720.8(f), the Chino Basin Watermaster is required to submit specific data, information and reports to the Department of Water Resources (DWR) by April 1, 2017.

Recommendation: Approve and direct staff to file the information/reports with the DWR.

Financial Impact: There is no financial impact as a result of this submittal.

Future Consideration

Watermaster Board – March 23, 2017: Approval with direction to file the information/reports with the DWR.

ACTIONS:

Appropriative Pool – March 9, 2017: Unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve and direct staff to file the information/reports with the DWR.

Non-Agricultural Pool – March 9, 2017: Unanimously recommended their representatives to support at Advisory Committee and Watermaster Board meetings subject to changes which they deem appropriate.

Agricultural Pool – March 10, 2017: Unanimously recommended Advisory Committee to recommend to the Watermaster Board to approve and direct staff to file the information/reports with the DWR.

Advisory Committee – March 16, 2017: Unanimously recommended the Watermaster Board to approve and direct staff to file the information/reports with the DWR.

Watermaster Board – March 23, 2017:

BACKGROUND

California Water Code Section 10720.8(a) identifies 26 adjudicated areas, including the Chino Basin, which are exempt from the requirements of the SGMA except for the reporting requirements listed in Water Code Section 10720.8(f). A Watermaster or local agency within an adjudicated area listed under Water Code 10720.8(a) is required to report the following:

- (1) *By April 1, 2016, submit to the department a copy of a governing final judgement, or other judicial order or decree, and amendments entered before April 1, 2016.*
- (2) *Within 90 days of entry by court, submit to the department a copy of any amendment made and entered by the court to the governing final judgment or other judicial order or decree on or after April 1, 2016.*
- (3) *By April 1, 2016, and annually thereafter, submit to the department a report containing the following information to the extent available for the portion of the basin subject to the adjudication:*
 - (A) *Groundwater elevation data unless otherwise submitted pursuant to Section 10932.*
 - (B) *Annual aggregated data identifying groundwater extraction for the preceding water year.*
 - (C) *Surface water supply used for or available for use for groundwater recharge or in-lieu use*
 - (D) *Total water use*
 - (E) *Change in groundwater storage*
 - (F) *The annual report submitted to the court.*

DISCUSSION

Pursuant to Water Code 10720.8(a), the Chino Basin Watermaster submitted items (1), (2), and (3) listed above by April 1, 2016. Item (3) information was submitted for water year 2015. The submittal of water year 2016 information by April 1, 2017 is the second such submittal by the Chino Basin Watermaster to the DWR for Water Code 10720.8(a) item (3).

The DWR has implemented an on-line submission system, which is accessible with secure login credentials, to facilitate the transmittal of all the required data and reports for adjudicated basins pursuant to the SGMA. The online system, called the *Adjudicated Basin Annual Reporting System*, consists of a specialized reporting template to populate all the required information and to upload supporting documents and reports. The attached Memorandum, prepared by Wildermuth Environmental Inc (WEI) explicitly describes the information and reports that will be submitted by the Chino Basin Watermaster to the DWR's *Adjudicated Basin Annual Reporting System* by April 1, 2017.

ATTACHMENTS

1. Memorandum: Chino Basin Watermaster submittal of the water year 2016 reporting requirements for adjudicated basins pursuant to the Sustainable Groundwater Management Act



Memorandum	
To:	Chino Basin Watermaster
From:	Veva Weamer
Date:	March 2, 2017
Subject:	Chino Basin Watermaster submittal of the water year 2016 reporting requirements for adjudicated basins pursuant to the Sustainable Groundwater Management Act

Pursuant to the Sustainable Groundwater Management Act (SGMA) requirements for adjudicated basins, as described in California Water Code (CWC) Section 10720.8(f), the Chino Basin Watermaster (Watermaster) is preparing to submit information pursuant to the annual reporting requirements for Chino Basin for water year 2016 (October 1, 2015 to September 30, 2016). The water year 2016 submittal is the second such submittal by the Watermaster to the California Department of Water Resources (DWR). The SGMA requires that the following six categories of data be submitted to the DWR by April 1 of each year: (A) groundwater elevation data, unless otherwise submitted pursuant to Section 10932¹; (B) annual aggregated data identifying total groundwater extractions for the preceding water year; (C) surface water supply used, or available for use, for groundwater recharge or in-lieu use; (D) total water use; (E) change in groundwater storage; and (F) the annual report submitted to the court.

The annual reporting data are submitted to the DWR using its Adjudicated Basin Annual Reporting System—a password-secured, online submission system accessible at <http://sgma.water.ca.gov/adjudbasins>. The DWR Adjudicated Basin Annual Reporting System facilitates the submission of all reporting requirements for adjudicated basins and consists of a standardized reporting template to enter all of the required information, including the ability to upload supporting documents and reports. The standardized reporting template includes sections to upload specific required information for reporting under the SGMA legislation, as well as for including optional information.

This memorandum describes all of the information that Wildermuth Environmental, Inc. (WEI) proposes to submit to the DWR using the Adjudicated Basin Annual Reporting System on behalf of the Watermaster to satisfy the water year 2016 reporting requirements for the Chino Basin.

¹ CWC Section 10932 requires reporting of groundwater levels for the California State Groundwater Elevation Monitoring (CASGEM) Program.

If the information and/or reports proposed for submittal to the DWR are not required, it is specified as such within this memorandum.

Water Data for Water Year 2016

The following Chino Basin water year 2016 data and digital documents will be submitted. The DWR Adjudicated Basin Annual Reporting System language is in ***bold italics*** and the information for submittal is shown in regular text. All volume data are reported in acre-feet (AF).

(A) Groundwater elevation data unless otherwise submitted pursuant to Section 10932.

Is water level data submitted to the CASGEM Program? Yes

Does the watermaster collect or receive additional groundwater levels? Yes

Does the watermaster measure groundwater levels? Yes

(B) Annual aggregated data identifying groundwater extraction for the preceding water year

Total Groundwater Extraction (AF): 149,730

Method used to determine extraction (if available):

The submittal of this information is optional; the following information will be submitted:

	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Meters</i>	16,350	Agricultural production metered by Watermaster
<i>Land Use</i>	752	Agricultural Production estimated by Watermaster using the water duty method
<i>Reported by pumper</i>	132,363	Pumpers meter production and report the data to the Watermaster
<i>Other Method</i>	264	Agricultural production estimated by Watermaster – broken meter

Groundwater extraction by water use sector (if available):

The submittal of this information is optional; the following information will be submitted:

<i>Sector</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Urban</i>	129,472	Appropriative Pool (Pool 3)

<i>Sector</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Agricultural</i>	17,366	Agricultural Pool (Pool 1)
<i>Other Sector</i>	2,892	Non-Agricultural Pool (Pool 2)

(C) Surface water supply used for or available for use for groundwater recharge or in-lieu use.

Surface Water Supply (AF): 105,420

Method used to determine: The submittal of this information is optional; the following information will be submitted:

The value reported represents total surface water used for direct consumption and for groundwater recharge. Imported water and recycled water deliveries to recharge basins are metered and recorded daily. Storm water and urban runoff recharge volumes are measured by stage sensors in the recharge basins. Imported water, recycled water, and local surface water amounts used for direct consumption are provided by the individual parties in the Chino Basin. For parties that have service areas not entirely within the Chino Basin adjudicated boundary, the proportion of the surface water supply used for consumption inside the Chino Basin adjudicated boundary is not quantified. The portion of the reported volumes that were used for recharge, were recharged entirely within the Chino Basin adjudicated boundary.

Water available for recharge or in-lieu use by source type (if available):

The submittal of this information is optional; the following information will be submitted:

<i>Source Type</i>	<i>Volume (AF)</i>	<i>Explanation</i>
<i>Local Surface Deliveries</i>	19,305	This includes 7,571 AF of storm water and urban runoff for groundwater recharge, and 9,624 AF of native surface water for direct consumption.
<i>State Water Project Deliveries</i>	50,288	This includes zero AF for groundwater recharge, and 50,288 AF for direct consumption.
<i>Recycled Water</i>	35,828	This includes 14,086 acre-feet for groundwater recharge, and 21,742 AF for direct consumption.

(D) Total Water Use (report water use in the basin as data is available and/or as reported in the annual report)

Total Water Use (AF): 304,495

Method used to determine: The submittal of this information is optional; the following information will be submitted:

Total water use data includes water used for direct consumption and for groundwater recharge. Data were obtained from Watermaster records, and/or collected from the parties in the Chino Basin. The total water use represents the sum of total water use by parties to the Chino Basin judgment. Many of the Chino Basin appropriative pool parties have service areas that extend outside the Chino Basin adjudicated boundary. The proportion of the total water use for direct consumption that is used inside the Chino Basin adjudicated boundary is not quantified by Watermaster.

Total water use is reported using the pre-defined categories by the DWR under the **Water use met by source type below**, and is apportioned as follows: **Groundwater** is groundwater produced from Chino Basin and other basins used for direct use; **Surface water** is imported State Water Project water and native surface water used for direct use; **Recycled or reused water** is recycled water used for direct use; and **Other** is water used for groundwater recharge which includes storm water and urban runoff, imported State Water Project water, and recycled water.

Water Use met by source type:

The submittal of this information is optional; the following information will be submitted:

Type	Volume (AF)
Groundwater	199,075
Surface water	62,022
Recycled or reused water	21,742
Other	21,657

(E) Annual change in groundwater storage

Change in storage (AF): -2,000

Method used to determine: The submittal of this information is optional; the following information will be submitted:

The storage change over the period of October 1, 2015 through September 30, 2016 was estimated using the Chino Basin groundwater model, which was updated by extending the calibration period from July 1, 1960 through September 30, 2016. For context, the Chino Basin Judgment and Peace II Agreement contain Court-approved storage depletion provisions that would cause a change in storage over the period of October 1, 2015 through September 30, 2016 of about 19,500 AF. That is, the actual change in storage of -2,000 AF is less than the planned change in storage of - 19,500 AF.

The 19,500 AF of planned storage decline is intended to be composed of 5,000 AF of court approved overdraft from the original Judgment and the remainder is from court ordered overdraft to achieve hydraulic control.

Time period for change: Start date: 10/1/2015 End date: 9/30/2016

(F) The annual report submitted to the court

Start date: 7/1/2015 End date: 6/30/2015

Please submit an electronic (PDF preferred) copy of your annual report:

Watermaster published two Annual Reports since the last the SGMA annual reporting requirements for the Chino Basin were submitted on April 1, 2016. The Chino Basin Watermaster Annual Reports for fiscal year 2013/2014 and 2014/2015 are submitted herein. Subsequent Annual Reports will be submitted for succeeding April 1 annual reporting requirements as they are completed.

Please submit additional reports or documents:

The submittal of this information is optional; this memorandum will be submitted herein. Additional Chino Basin Watermaster engineering and legal reports are available for public download on Watermaster's website at www.cbwm.org

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CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

E. EXHIBIT "G" PHYSICAL SOLUTION TRANSFERS



CHINO BASIN WATERMASTER

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

PETER KAVOUNAS, P.E.
General Manager

STAFF REPORT

DATE: March 23, 2017
TO: Board Members
SUBJECT: 2016-2017 Exhibit "G" Physical Solution Transfers (Consent Calendar Item I.E.)

SUMMARY

Issue: Pursuant to Exhibit "G" of the Restated Judgment, members of the Overlying (Non-Agricultural) Pool may annually transfer water to members of the Appropriative Pool through a Watermaster clearinghouse process. Watermaster purchases water from the Overlying (Non-Agricultural) Pool members, which Watermaster then transfers to the members of the Appropriative Pool based on the prescribed process. Members of the Appropriative Pool purchasing water through the process must complete their payments to Watermaster by June 30 of the fiscal year.

Recommendation: 1) Find that NRG California South LP is in compliance with the Restated Judgment, Exhibit "G" ¶9(g), authorizing 2016-2017 Exhibit "G" Physical Solution Transfers, 2) Approve levy of assessments and subsequent payments for same.

Financial Impact: Watermaster functions as a pass-through for the payments for transferred water. There is no financial impact as a result of this action.

Future Consideration

Watermaster Board: March 23, 2017 1) Find that NRG California South LP is in compliance with the Restated Judgment, Exhibit "G" ¶9(g), authorizing 2016-2017 Exhibit "G" Physical Solution Transfers, 2) Approve levy of assessments and subsequent payments for same. [Within WM Duties and Powers]

ACTIONS:

March 23, 2017 – Watermaster Board –

BACKGROUND

Pursuant to the Restated Judgment, Exhibit "G," members of the Overlying (Non-Agricultural) Pool may annually make available water for sale to Watermaster and thence to members of the Appropriative Pool. By December 31st of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each Party shall make available in its individual discretion for purchase by the Appropriators. Watermaster is required to provide a Notice of Availability of each Appropriator's pro-rata share of such water by January 31st of each year.

Each member of the Appropriative Pool is afforded the right to purchase its pro-rata share of the water made available from the Overlying (Non-Agricultural) Pool, based on its combined total share of Operating Safe Yield and the previous year's actual Production by each party. If any member of the Appropriative Pool fails to commit to their allocated share by March 1 of each year, its share of the Overlying (Non-Agricultural) Pool water is made available to all other members of the Appropriative Pool according to the same proportions. Each member of the Appropriative Pool shall complete its payment for its share of water made available by June 30 of each year. Both water and payment for the same are funneled through Watermaster.

Exhibit "G" provides that the right of any member of the Overlying (Non-Agricultural) Pool to transfer water in accordance with this mechanism is dependent upon Watermaster making a finding that the member of the Overlying (Non-Agricultural) Pool is using recycled water where it is both physically available and appropriate for the designated end use in lieu of pumping groundwater, and that each member of the Appropriative Pool shall only be eligible to purchase water pursuant to this mechanism if the party is: (i) current on all their assessments; and (ii) in compliance with the OBMP.

DISCUSSION

Paragraph 9(d) of Restated Judgment, Exhibit "G," provides that Watermaster will purchase available water at a rate of 92% of the then-prevailing Metropolitan Water District of Southern California ("MWD") Replenishment Rate. As MWD does not currently publish a Replenishment Rate, the Overlying (Non-Agricultural) Pool, and the Appropriative Pool agreed that the temporary substitution of a rate of 85.58% of MWD's 2017 Tier 1 Untreated Rate for Physical Solution Transfers during Fiscal Year 2016-17 would be appropriate. On October 28, 2016, based on the approval of each of the Pool Committees, the Advisory Committee, and the Watermaster Board, Watermaster Legal Counsel moved the Court to approve the temporary rate substitution for 2017 Physical Solution Transfers. The temporary rate substitution was approved by the Court on December 9, 2016.

On December 12, 2016, Watermaster requested that members of the Overlying (Non-Agricultural) Pool interested in making water available for purchase pursuant to Paragraph 9 of Exhibit "G" notify Watermaster of available water by December 31, 2016. On December 29, 2016, NRG California South LP notified Watermaster of the availability of 1,000 acre-feet of water for purchase.

On January 13, 2017, Watermaster issued a Notice of Availability showing the allocation of the amount of water available to each Appropriator, per the prescribed formula, and the associated cost. Consistent with the provisions of Paragraph 9, the Notice provided the Appropriators until March 1, 2017 to notify Watermaster of their interest in purchasing their allocations of the available water, as well as the maximum amount of water they were interested in purchasing, should other members of Pool not wish to purchase their allocated shares.

As shown on the attached spreadsheet, four appropriators committed to purchase the available water, with such commitments resulting in the purchase of the entirety of the water made available by NRG California South LP. Pursuant to the provisions of Paragraph 9, Watermaster must purchase the available water from NRG California South LP, transfer such water to the purchasing appropriators, collect payment from those appropriators, and issue payment to NRG California South LP in the amounts shown on the attached spreadsheet.

According to Watermaster's records, each member of the Appropriative Pool wishing to purchase water is eligible to do so pursuant to the criteria that it be (i) current on all assessments; and (ii) in compliance with the OBMP. Additionally, pursuant to the information available to Watermaster, NRG California South LP is using recycled water in lieu of pumping groundwater where available.

ATTACHMENTS

1. Purchase Allocation Among Appropriators of Water Made Available for Transfer by Non-Agricultural Pool Parties According to Restated Judgment, Exhibit "G" in FY 2016-17

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Actual Allocation for the Purchase of the Exhibit "G" Non-Ag Pool Water 2017

The Restated Judgment, Exhibit "G" states:

9(a) By December 31 of each year, the members of the Overlying (Non-Agricultural) Pool shall notify Watermaster of the amount of water each member shall make available in their individual discretion for purchase by the Appropriators. By January 31 of each year, Watermaster shall provide a Notice of Availability of each Appropriator's pro-rata share of such water;

9(b) Except as they may be limited by paragraph 9(e) below, each member of the Appropriative Pool will have, in their discretion, a right to purchase its pro-rata share of the supply made available from the Overlying (Non-Agricultural) Pool at the price established in 9(d) below. Each Appropriative Pool member's pro-rata share of the available supply will be based on each Producer's combined total share of Operating Safe Yield and the previous year's actual Production by each party;

9(c) If any member of the Appropriative Pool fails to irrevocably commit to their allocated share by March 1 of each year, its share of the Overlying (Non-Agricultural) Pool water will be made available to all other members of the Appropriative Pool according to the same proportions as described in 9(b) above and at the price established in Paragraph 9(d) below. Each member of the Appropriative Pool shall complete its payment for its share of water made available by June 30 of each year.

Non-Ag Water Made Available By:		
Party	Volume Made Available (AF)	Payment @ \$570.00 per AF
NRG CA South LP	1,000.000	\$ 570,000.00
Total	1,000.000	\$ 570,000.00

1st Iteration Additional Amount Available To Be Reallocated:
(= Total [B] - Total [D])
889.706 Acre-Feet

2nd Iteration Additional Amount Available To Be Reallocated:
(= Total [B] - Total [J])
- Acre-Feet

3rd Iteration Additional Amount Available To Be Reallocated:
(= Total [B] - Total [O])
- Acre-Feet

Party	1,000.000 Potential Allocation (From Notice)	Maximum Amount Stated On Form	Amount of Original Potential Allocation Requested	Maximum Additional Amount Requested	Original Potential Allocation (If Purchasing Additional)	1st Iteration			Total Amount After Iteration	Original Potential Allocation (If Purchasing Additional)	2nd Iteration			Total Amount After Iteration	Original Potential Allocation (If Purchasing Additional)	3rd Iteration			Total Amount After Iteration	Cost for Each Party's Allocation @ \$570.00 per AF
						Percent Of Potential Allocation	Available Allocation Amount For This Iteration	Reallocation Actual Amount (Up To Maximum)			Percent Of Potential Allocation	Available Allocation Amount For This Iteration	Reallocation Actual Amount (Up To Maximum)			Percent Of Potential Allocation	Available Allocation Amount For This Iteration	Reallocation Actual Amount (Up To Maximum)		
Arrowhead Mtn Spring Water Co	1.981	1,000.000	1.981	998.019	1.981	100.000%	889.706	889.706	891.687	1.981	100.000%	-	-	891.687	1.981	100.000%	-	-	891.687	\$ 508,261.49
Chino Hills, City Of	27.863	27.863	27.863	-	-	-	-	-	27.863	-	-	-	-	27.863	-	-	-	-	27.863	\$ 15,881.91
Chino, City Of	36.782	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Cucamonga Valley Water District	147.205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Desalter Authority	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Fontana Union Water Company	58.283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Fontana Water Company	85.193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Fontana, City Of	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Golden State Water Company	8.242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Jurupa Community Services District	68.584	68.584	68.584	-	-	-	-	-	68.584	-	-	-	-	68.584	-	-	-	-	68.584	\$ 39,092.70
Marygold Mutual Water Company	10.162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Monte Vista Irrigation Company	6.171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Monte Vista Water District	89.611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Niagara Bottling, LLC	9.869	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Nicholson Trust	0.036	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Norco, City Of	1.838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Ontario, City Of	204.115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Pomona, City Of	157.683	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
San Antonio Water Company	19.473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
San Bernardino County Shtg Prk	0.052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Santa Ana River Water Company	11.866	11.866	11.866	-	-	-	-	-	11.866	-	-	-	-	11.866	-	-	-	-	11.866	\$ 6,763.90
Upland, City Of	40.473	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
West End Consolidated Water Company	8.642	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
West Valley Water District	5.875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
Total	1,000.000	1,108.313	110.294	998.019	1.981	100.000%	889.706	889.706	1,000.000	1.981	100.000%	-	-	1,000.000	1.981	100.000%	-	-	1,000.000	\$ 570,000.00

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T]	[U]
	As Provided On CBWM Notice To Parties	As Stated On Form By Party	Copied From [B] If Purchasing Water	= [C] - [D]	Copied From [B] If Purchasing Water	Party's [F] Divided By Total [F]	= Iteration Amount Available * [G]	[H] or [E], Whichever Is Lesser	= [D] + [I]	Copied From [B] If Purchasing Water	Party's [K] Divided By Total [K]	= Iteration Amount Available * [L]	[M] or ([C] - [J]), Whichever Is Lesser	= [J] + [N]	Copied From [B] If Purchasing Water	Party's [P] Divided By Total [P]	= Iteration Amount Available * [Q]	[R] or ([C] - [O]), Whichever Is Lesser	= [O] + [S]	= [T] * \$/AF Cost

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CHINO BASIN WATERMASTER

I. CONSENT CALENDAR

- F. RESOLUTION 2017-04 CONCURRING IN NOMINATION OF MELODY A. McDONALD TO THE EXECUTIVE COMMITTEE OF ACWA/JPIA**

RESOLUTION NO. 2017-04

RESOLUTION OF THE CHINO BASIN WATERMASTER,
CONCURRING IN NOMINATION OF MELODY A. MCDONALD
TO THE EXECUTIVE COMMITTEE
OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES
JOINT POWERS INSURANCE AUTHORITY ("ACWA JPIA")

WHEREAS, the Chino Basin Watermaster is a member of the ACWA JPIA; and

WHEREAS, the Bylaws of the ACWA JPIA provide that in order for a nomination to be made to ACWA JPIA's **Executive Committee**, three member districts must concur with the nominating district, and

WHEREAS, another ACWA JPIA member district, the San Bernardino Valley Water Conservation District has requested that this agency concur in its nomination of its member of the ACWA JPIA Board of Directors to the **Executive Committee** of the ACWA JPIA;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Chino Basin Watermaster that this agency concur with the nomination of Melody A. McDonald of San Bernardino Valley Water Conservation District to the **Executive Committee** of the ACWA JPIA.

BE IT FURTHER RESOLVED that the Chino Basin Watermaster Secretary is hereby directed to transmit a certified copy of this Resolution to the ACWA JPIA at P.O. Box 619082, Roseville, CA 95661-9082, forthwith.

ADOPTED by the Chino Basin Watermaster Board on this 23rd day of March, 2017.

APPROVED:

By: _____
Board Chair
Chino Basin Watermaster

ATTEST:

By: _____
Board Secretary/Treasurer
Chino Basin Watermaster

STATE OF CALIFORNIA)
) ss
COUNTY OF SAN BERNARDINO)

I, Bob Kuhn, Secretary/Treasurer of the Chino Basin Watermaster, DO HEREBY CERTIFY that the foregoing Resolution being No. 2017-03, was adopted at a regular meeting of the Chino Basin Watermaster Board by the following vote:

AYES: 8
NOES: 0
ABSENT: 1
ABSTAIN: 0

CHINO BASIN WATERMASTER

Watermaster Secretary/Treasurer

Date: March 23, 2017

CHINO BASIN WATERMASTER

IV. INFORMATION

1. Cash Disbursements for February 2017

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
February 2017

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount	
Bill Pmt -Check	02/06/2017	19927	APPLIED COMPUTER TECHNOLOGIES	2782	1012 - Bank of America Gen'l Ckg		
Bill	01/31/2017	2782		Datbase Consulting Services - January 2017	6052.2 - Applied Computer Technol	4,064.20	
TOTAL						4,064.20	
Bill Pmt -Check	02/06/2017	19928	BOWCOCK, ROBERT	Board Member Compensation	1012 - Bank of America Gen'l Ckg		
Bill	01/19/2017	1/19 Advisory Comm		1/19/17 Advisory Committee Meeting	6311 - Board Member Compensation	125.00	
Bill	01/26/2017	1/26 Board Mtg		1/26/17 Board Meeting	6311 - Board Member Compensation	125.00	
TOTAL						250.00	
Bill Pmt -Check	02/06/2017	19929	CHEF DAVE'S CAFE & CATERING	6556	1012 - Bank of America Gen'l Ckg		
Bill	01/26/2017	6556		Lunch for 1/26/17 Watermaster Board Meeting	6312 - Meeting Expenses	602.00	
TOTAL						602.00	
Bill Pmt -Check	02/06/2017	19930	CURATALO, JAMES	Board Member Compensation	1012 - Bank of America Gen'l Ckg		
Bill	01/24/2017	1/24 Agenda Preview		1/24/17 Agenda Preview Meeting	6311 - Board Member Compensation	125.00	
Bill	01/26/2017	1/26 Board Mtg.		1/26/17 Board Meeting	6311 - Board Member Compensation	125.00	
TOTAL						250.00	
P 9 3	Bill Pmt -Check	02/06/2017	19931	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg	
	Bill	01/12/2017	1/12 Ag Pool Mtg		1/12/17 Ag Pool Meeting	8411 - Compensation	25.00
					1/12/17 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	100.00
	Bill	01/17/2017	1/17 Special Ag Mtg		1/17/17 Special Ag Pool Meeting	8411 - Compensation	25.00
				1/17/17 Special Ag Pool Meeting	8470 - Ag Meeting Attend -Special	100.00	
TOTAL						250.00	
Bill Pmt -Check	02/06/2017	19932	DE HAAN, HENRY	Ag Pool Member Compensation	1012 - Bank of America Gen'l Ckg		
Bill	01/12/2017	1/12 Ag Pool Mtg		1/12/17 Ag Pool Meeting	8411 - Compensation	25.00	
				1/12/17 Ag Pool Meeting	8470 - Ag Meeting Attend -Special	100.00	
TOTAL						125.00	
Bill Pmt -Check	02/06/2017	19933	ELIE, STEVEN	Board Member Compensation	1012 - Bank of America Gen'l Ckg		
Bill	01/24/2017	1/24 Agenda Preview		1/24/17 Board Agenda Preview call	6311 - Board Member Compensation	125.00	
Bill	01/26/2017	1/26 Board Mtg		1/26/17 Board Meeting	6311 - Board Member Compensation	125.00	
TOTAL						250.00	
Bill Pmt -Check	02/06/2017	19934	EUROFINS EATON ANALYTICAL		1012 - Bank of America Gen'l Ckg		
Bill	12/22/2016	L0297043		L0297043	7108.41 - Hydraulic Control - PBHSP	1,256.00	
Bill	12/28/2016	L0297566		L0297566	7103.5 - Grdwtr Qual-Lab Svcs	3,400.00	
Bill	12/30/2016	L0297991		L0297991	7108.41 - Hydraulic Control - PBHSP	3,140.00	

CHINO BASIN WATERMASTER
Cash Disbursements For The Month of
February 2017

For Informational Purposes Only

Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	12/30/2016	L0297992		L0297992	7108.41 · Hydraulic Control - PBHSP	3,768.00
Bill	01/03/2017	L0298382		L0298382	7103.5 · Grdwtr Qual-Lab Svcs	2,512.00
Bill	01/10/2017	L0299434		L0299434	7108.41 · Hydraulic Control - PBHSP	628.00
TOTAL						14,704.00
Bill Pmt -Check	02/06/2017	19935	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2017	1/12 Ag Pool Mtg		1/12/17 Ag Pool Meeting	8411 · Compensation	25.00
				1/12/17 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/17/2017	1/17 Ag Pool Call		1/17/17 Ag Pool conference call	8411 · Compensation	25.00
				1/17/17 Ag Pool conference call	8470 · Ag Meeting Attend -Special	100.00
TOTAL						250.00
Bill Pmt -Check	02/06/2017	19936	KUHN, BOB	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2017	1/12 Appro Pool Mtg		1/12/17 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00
Bill	01/19/2017	1/19 Advisory Comm		1/19/17 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
Bill	01/25/2017	1/25 Admin Mtg		1/25/17 Administrative Meeting	6311 · Board Member Compensation	125.00
Bill	01/26/2017	1/26 Board Mtg.		1/26/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						500.00
P 94						
Bill Pmt -Check	02/06/2017	19937	LEVEL 3 COMMUNICATIONS	50998335	1012 · Bank of America Gen'l Ckg	
Bill	01/24/2017	50998335		1/17/17-2/16/17	6053 · Internet Expense	1,044.82
TOTAL						1,044.82
Bill Pmt -Check	02/06/2017	19938	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2017	1394905143		1959 Survivor Benefit 7/01/2016-6/30/2017	60180 · Employers PERS Expense	154.80
TOTAL						154.80
Bill Pmt -Check	02/06/2017	19939	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	0023230253		Office Water Bottle - January 2017	6031.7 · Other Office Supplies	17.90
TOTAL						17.90
Bill Pmt -Check	02/06/2017	19940	RR FRANCHISING, INC.	Janitorial Services	1012 · Bank of America Gen'l Ckg	
Bill	01/20/2017	34093		Carpet cleaning on 1/07/17	6024 · Building Repair & Maintenance	600.00
Bill	02/01/2017	34457		Monthly service February 201	6024 · Building Repair & Maintenance	740.00
TOTAL						1,340.00
Bill Pmt -Check	02/06/2017	19941	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
Bill	01/24/2017	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	667.50
TOTAL						667.50

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill Pmt -Check	02/06/2017	19942	STATE COMPENSATION INSURANCE FUND	1970970-16	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2017	1970970 -16		Premium for 1/26/17-2/26/17	60183 · Worker's Comp Insurance	910.00
TOTAL						910.00
Bill Pmt -Check	02/06/2017	19943	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/26/2017	1/26 Board Mtg.		1/26/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/06/2017	19944	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	7076224530355049		January 2017	6175 · Vehicle Fuel	179.29
TOTAL						179.29
Bill Pmt -Check	02/06/2017	19945	VANDEN HEUVEL, GEOFFREY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/12/2017	1/12 Ag Pool Mtg		1/12/17 Ag Pool Meeting	6311 · Board Member Compensation	125.00
Bill	01/26/2017	1/26 Board Mtg		1/26/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	02/06/2017	19946	VERIZON WIRELESS	9778613057	1012 · Bank of America Gen'l Ckg	
Bill	01/23/2017	9778613057		Acct #642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.06
TOTAL						100.06
Bill Pmt -Check	02/06/2017	19947	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
Bill	01/24/2017	001017890001		Vision Insurance Premium - February 2017	60182.2 · Dental & Vision Ins	85.60
TOTAL						85.60
Bill Pmt -Check	02/06/2017	19948	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/26/2017	1/26 Board Mtg		1/26/17 Board Meeting-Galleano attendance	6311 · Board Member Compensation	125.00
TOTAL						125.00
Bill Pmt -Check	02/06/2017	19949	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2017	08-k2 213849		Disposal Service - February 2017	6024 · Building Repair & Maintenance	111.57
TOTAL						111.57
Bill Pmt -Check	02/06/2017	19950	DI PRIMIO, ROBERT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/24/2017	1/24 Agenda Preview		1/24/17 Board Agenda Preview Meeting	6311 · Board Member Compensation	125.00
Bill	01/26/2017	1/26 Board Mtg		1/26/17 Board Meeting	6311 · Board Member Compensation	125.00
TOTAL						250.00
Bill Pmt -Check	02/01/2017	ACH 020117	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	01/28/2017	01/28/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/14/17-01/28/17	2000 · Accounts Payable	6,535.84

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Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						6,535.84
General Journal	02/11/2017	02/11/2017	Payroll and Taxes for 01/29/17-02/11/17	Payroll and Taxes for 01/29/17-02/11/17	1012 · Bank of America Gen'l Ckg	
				Direct Deposits for 01/29/17-02/11/17	1012 · Bank of America Gen'l Ckg	25,837.06
				Payroll Taxes for 01/29/17-02/11/17	1012 · Bank of America Gen'l Ckg	8,997.31
			ICMA-RC	457(f) Employee Deductions for 01/29/17-02/11/17	1012 · Bank of America Gen'l Ckg	4,399.88
			ICMA-RC	401(a) Employee Deductions for 01/29/17-02/11/17	1012 · Bank of America Gen'l Ckg	1,235.97
TOTAL						40,470.22
Bill Pmt -Check	02/14/2017	19951	ACWA JOINT POWERS INSURANCE AUTHORIT 0457748		1012 · Bank of America Gen'l Ckg	
Bill	02/02/2017	0463766		Prepayment - March 2017	1409 · Prepaid Life, BAD&D & LTD	144.67
				February 2017	60191 · Life & Disab.Ins Benefits	140.43
TOTAL						285.10
Bill Pmt -Check	02/14/2017	19952	CORELOGIC INFORMATION SOLUTIONS	21771171	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	81771171		21771171	7103.7 · Grdwtr Qual-Computer Svc	62.50
				21771171	7101.4 · Prod Monitor-Computer	62.50
TOTAL						125.00
P 96 Bill Pmt -Check	02/14/2017	19953	MINDSHIFT	0238641	1012 · Bank of America Gen'l Ckg	
Bill	02/02/2017	0238642		IT Managed Services	6052.4 · mindSHIFT-Managed Services	3,770.00
				Backup & Recovery	6052.5 · mindSHIFT-Data Backup/Storage	792.00
TOTAL						4,562.00
Bill Pmt -Check	02/14/2017	19954	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill	01/06/2017	1/06 Mtg w/Legal		1/06/17 Mtg w/Tracy Egoscue, Bob Feenstra	8411 · Compensation	25.00
				1/06/17 Mtg w/Tracy Egoscue, Bob Feenstra	8470 · Ag Meeting Attend -Special	100.00
Bill	01/12/2017	1/12 Ag Pool Mtg		1/12/17 Ag Pool Mtg	8411 · Compensation	25.00
				1/12/17 Ag Pool Mtg	8470 · Ag Meeting Attend -Special	100.00
Bill	01/12/2017	1/12 Special Ag Pool		1/12/17 Special Ag Pool Mtg	8411 · Compensation	25.00
				1/12/17 Special Ag Pool Mtg	8470 · Ag Meeting Attend -Special	100.00
Bill	01/17/2017	1/17 Special Ag Pool		1/17/17 Special Ag Pool Mtg	8411 · Compensation	25.00
				1/17/17 Special Ag Pool Mtg	8470 · Ag Meeting Attend -Special	100.00
Bill	01/19/2017	1/19 Advisory Comm		1/19/17 Advisory Committee Meeting	8411 · Compensation	25.00
				1/19/17 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/19/2017	1/19 RIPCom Mtg		1/19/17 RIPCom Meeting	8411 · Compensation	25.00
				1/19/17 RIPCom Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/19/2017	1/19 Special Ag Mtg		1/19/17 Special Ag Pool Meeting	8411 · Compensation	25.00
				1/19/17 Special Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
Bill	01/19/2017	1/19 Mtg w/ Legal		1/19/17 Meeting w/Legal Counsel, PK	8411 · Compensation	25.00

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	01/26/2017	1/26 Board Mtg		1/19/17 Meeting w/Legal Counsel, Pk	8470 · Ag Meeting Attend -Special	100.00
				1/26/17 Board Meeting	8411 · Compensation	25.00
				1/26/17 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL						1,125.00
Bill Pmt -Check	02/14/2017	19955	PRINTING RESOURCES	63898	1012 · Bank of America Gen'l Ckg	
Bill	02/01/2017	63898		Nameplate - Edgar Tellez-Foster	6031.7 · Other Office Supplies	30.60
TOTAL						30.60
Bill Pmt -Check	02/14/2017	19956	RAUCH COMMUNICATION CONSULTANTS, LLC	Jan-1703	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	Jan-1703		Work thru December 2016	6061.3 · Rauch	131.25
TOTAL						131.25
Bill Pmt -Check	02/14/2017	19957	TELLEZ-FOSTER, EDGAR	TRAVEL / MILEAGE REIMBURSEMENT	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2017			Mileage reimbursements to various meetings	6173 · Airfare/Mileage	71.17
				Expenses for Feb. 6-7, 2017 conf. attendance	6191 · Conferences - General	718.30
TOTAL						789.47
P97 Bill Pmt -Check	02/17/2017	ACH 021717	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
General Journal	02/11/2017	02/17/2017	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/29/17-02/11/17	2000 · Accounts Payable	6,535.85
TOTAL						6,535.85
Bill Pmt -Check	02/21/2017	19958	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
Bill	02/14/2017	1394905143		1394905143	60182.1 · Medical Insurance	8,172.69
TOTAL						8,172.69
Bill Pmt -Check	02/21/2017	19959	CUCAMONGA VALLEY WATER DISTRICT	Lease due March 1, 2017	1012 · Bank of America Gen'l Ckg	
Bill	02/13/2017			Lease due March 1, 2017	1422 · Prepaid Rent	6,447.61
TOTAL						6,447.61
Bill Pmt -Check	02/21/2017	19960	EGOSCUE LAW GROUP	11507	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	11507		Ag Pool Legal Services - January 2017	8467 · Ag Legal & Technical Services	19,937.50
TOTAL						19,937.50
Bill Pmt -Check	02/21/2017	19961	EUROFINS EATON ANALYTICAL		1012 · Bank of America Gen'l Ckg	
Bill	02/03/2017	L0303210		L0303210	7108.4 · Hydraulic Control-Lab Svcs	440.00
Bill	02/06/2017	L0303607		L0303607	7108.4 · Hydraulic Control-Lab Svcs	1,592.00
TOTAL						2,032.00
Bill Pmt -Check	02/21/2017	19962	FIRST LEGAL NETWORK LLC	40008002	1012 · Bank of America Gen'l Ckg	

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Type	Date	Num	Name	Memo	Account	Paid Amount
Bill	01/31/2017	40008002		Filings on 1/3/17, 1/10/17 and 1/11/17	6061.5 · Court Filing Services	194.02
TOTAL						194.02
Bill Pmt -Check	02/21/2017	19963	PAYCHEX	2017020200	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	2017020200		January 2017	6012 · Payroll Services	609.14
TOTAL						609.14
Bill Pmt -Check	02/21/2017	19964	PETTY CASH	2636-2647	1012 · Bank of America Gen'l Ckg	
Bill	02/15/2017	2636-2647		Supplies for WM 101 meeting	6909.1 · OBMP Meetings	5.87
				Supplies for admin meetings	6141.3 · Admin Meetings	60.76
				Mileage reimburse - Truong, Tellez-Foster	6173 · Airfare/Mileage	152.68
				E. Tellez-Foster mtg w/Scott-Coe	8312 · Meeting Expenses	29.35
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	74.79
TOTAL						323.45
Bill Pmt -Check	02/21/2017	19965	PREMIERE GLOBAL SERVICES	22884838	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	22884838		SGMA compliance call on 1/03	6907.44 · SGMA Compliance	6.06
				Non-Ag Pool meeting call on 1/12	8512 · Meeting Expense	21.18
				Fee - General	6022 · Telephone	49.00
				Fee - Confidential	6022 · Telephone	49.00
				WM coordination call on 1/02	6909.1 · OBMP Meetings	6.05
				Appropriative Pool agenda call on 1/05	8312 · Meeting Expenses	2.50
				Ag Pool agenda call on 1/05	8412 · Meeting Expenses	2.50
				Non-Ag Pool agenda call on 1/05	8512 · Meeting Expense	2.50
				WM coordination call on 1/09	6909.1 · OBMP Meetings	19.40
				Appropriative Pool meeting check call on 1/11	8312 · Meeting Expenses	3.83
				Ag Pool meeting check call on 1/11	8412 · Meeting Expenses	3.83
				Non-Ag Pool meeting check call on 1/11	8512 · Meeting Expense	3.84
				Appropriative Pool meeting check call on 1/11	8312 · Meeting Expenses	2.02
				Ag Pool meeting check call on 1/11	8412 · Meeting Expenses	2.02
				Non-Ag Pool meeting check call on 1/11	8512 · Meeting Expense	2.03
				WM coordination call on 1/16	6909.1 · OBMP Meetings	9.39
				SAWCO recharge call on 1/20	7204 · Comp Recharge-Supplies	6.07
				WM coordination call on 1/23	6909.1 · OBMP Meetings	9.70
				Board agenda preview call on 1/24	6312 · Meeting Expenses	11.24
				Service fee	6022 · Telephone	4.05
TOTAL						216.21
Bill Pmt -Check	02/21/2017	19966	PRINTING RESOURCES	63922	1012 · Bank of America Gen'l Ckg	
Bill	02/08/2017	63922		Nameplate - Gino Filippi	6031.7 · Other Office Supplies	30.60

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Type	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						30.60
Bill Pmt -Check	02/21/2017	19967	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
Bill	02/28/2017			Retiree Medical	60182.4 · Retiree Medical	23.62
TOTAL						23.62
Bill Pmt -Check	02/21/2017	19968	UNITED HEALTHCARE	0042800063	1012 · Bank of America Gen'l Ckg	
Bill	02/14/2017	0042800063		Dental Insurance Premium - March 2017	60182.2 · Dental & Vision Ins	749.75
TOTAL						749.75
Bill Pmt -Check	02/21/2017	19969	VERIZON WIRELESS	9779789637	1012 · Bank of America Gen'l Ckg	
Bill	02/15/2017	9779789637		Acct #470810953-00001	6022 · Telephone	367.50
				Equipment charges	6022 · Telephone	189.35
TOTAL						556.85
Bill Pmt -Check	02/21/2017	19970	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	01/31/2017	XXXX-XXXX-XXXX-9341		Purchase supplies for field operations	6031.7 · Other Office Supplies	13.61
				Purchase supplies for field operations	6031.7 · Other Office Supplies	24.45
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	244.90
				Purchase battery for power supply in IT room	6055 · Computer Hardware	101.51
				Purchase HR software	6054 · Computer Software	292.51
				Purchase spare battery for power supply	6055 · Computer Hardware	113.83
				Register office for seminars for one year	6192 · Seminars - General	877.52
				Purchase part to repair broken office chair	6031.7 · Other Office Supplies	44.57
				Reg.-Wilson/Gregory-attend Feb. 9, 2017 IAAP	6192 · Seminars - General	58.70
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	355.79
				Airfare-Tellez-Foster-attend Feb. 6, 2017	6191 · Conferences - General	125.12
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	61.32
				Lunch for mtg w/IEUA staff	8312 · Meeting Expenses	34.24
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	11.94
				Purchase miscellaneous office supplies	6031.7 · Other Office Supplies	16.78
				Purchase replacement wall clocks for office	6031.7 · Other Office Supplies	63.33
				Purchase speakers for office computer	6031.7 · Other Office Supplies	14.74
				Purchase sign holders for office	6031.7 · Other Office Supplies	17.62
TOTAL						2,472.48
					Total Disbursements:	128,962.99

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