

NOTICE OF MEETING

Thursday, March 17, 2016

9:00 a.m. - Advisory Committee Meeting

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

Thursday, March 17, 2016

9:00 a.m. - Advisory Committee Meeting

AGENDA

CHINO BASIN WATERMASTER ADVISORY COMMITTEE MEETING

9:00 a.m. – March 17, 2016 **WITH**

Ms. Rosemary Hoerning, Chair Mr. Brian Geve, Vice-Chair

At The Offices Of
Chino Basin Watermaster
9641 San Bernardino Road
Rancho Cucamonga, CA 91730

AGENDA

CALL TO ORDER

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 Advisory Committee Meeting held February 18, 2016 (Page 1)

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of January 2016 (Page 5)
- 2. Watermaster VISA Check Detail for the month of January 2016 (Page 17)
- 3. Combining Schedule for the Period July 1, 2015 through January 31, 2016 (Page 21)
- 4. Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016 (*Page 25*)
- 5. Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016 (Page 29)

C. OBMP SEMI-ANNUAL STATUS REPORTS 2013-2 AND 2014-1 (Page 45)

Recommend the Watermaster Board to adopt the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

D. SAN ANTONIO WATER COMPANY – APPLICATION FOR RECHARGE (Page 67)

Notice of Application for Recharge – On January 22, 2016, San Antonio Water Company submitted an Application for Recharge for up to 200.000 acre-feet to be recharged into Montclair 2, 3, and 4, and Brooks recharge basins.

II. BUSINESS ITEMS

NONE

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. February 26, 2016 Hearing
- 2. April 8, 2016 Hearing
- 3. 36th Annual Report (Fiscal Year 2012/13)

B. CFO REPORT

1. Fiscal Year 2016/17 Budget Schedule

C. GM REPORT

- 1. Overlying Non-Agricultural Pool Available Water Per Judgment Exhibit "G" (Page 153)
- 2. Appropriative Pool Voting on Advisory Committee
- 3. SGMA Update
- 4. UC Santa Cruz Report: An Evaluation of CA's Adjudicated Groundwater Basins
- 5. Business Plan Update
- 6. East Declez Project Status
- 7. Other

D. INLAND EMPIRE UTILITIES AGENCY

- 1. MWD Update (Written) (Page 156)
- 2. State and Federal Legislative Reports (Page 159)
- 3. Public Outreach and Communication Report (Page 183)

E. OTHER METROPOLITAN MEMBER AGENCY REPORTS

IV. INFORMATION

1. Cash Disbursements for February 2016 (Page 187)

V. COMMITTEE MEMBER COMMENTS

VI. OTHER BUSINESS

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

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

VIII. <u>FUTURE</u>	VIII. FUTURE MEETINGS AT WATERMASTER									
3/17/16	Thu	8:00 a.m.	Appropriative Pool Strategic Planning (Confidential Session Only)							
3/17/16	Thu	9:00 a.m.	Advisory Committee							
3/17/16	Thu	9:30 a.m.	Recharge Investigations and Projects Committee (RIPCom)							
3/21/16	Mon	9:00 a.m.	Ground-Level Monitoring Committee							
3/24/16	Thu	11:00 a.m.	Watermaster Board							

ADJOURNMENT

I. CONSENT CALENDAR

A. MINUTES

1. Advisory Committee Meeting held on February 18, 2016

DRAFT MINUTES CHINO BASIN WATERMASTER ADVISORY COMMITTEE MEETING

February 18, 2016

The Advisory Committee meeting was held at the offices of the Chino Basin Watermaster located at 9641 San Bernardino Road, Rancho Cucamonga, CA on February 18, 2016.

ADVISORY COMMITTEE MEMBERS PRESENT

APPROPRIATIVE POOL

Rosemary Hoerning (Chair)

Todd Corbin Ron Craig

Charles Moorrees for Teri Layton

Mark Kinsey for Justin Scott-Coe

Josh Swift Dave Crosley

Cris Fealy

Darron Poulsen

Van Jew

Ben Lewis

Ryan Shaw

City of Upland

Jurupa Community Services District

City of Chino Hills

San Antonio Water Company Monte Vista Water District Fontana Water Company

City of Chino

Fontana Union Water Company

City of Pomona

Monte Vista Irrigation Company Golden State Water Company

City of Ontario

NON-AGRICULTURAL POOL

Brian Geye (Vice-Chair)

Auto Club Speedway

AGRICULTURAL POOL

Rob Vanden Heuvel

Nathan deBoom

Pete Hall

Larry Dimock

Dairy

Dairy

State of California - CIM

State of California - CIM

WATERMASTER STAFF PRESENT

Peter Kavounas

Danielle Maurizio Joseph Joswiak

Anna Truong

General Manager

Assistant General Manager

Chief Financial Officer

Recording Secretary

WATERMASTER CONSULTANTS PRESENT

Brad Herrema

Mark Wildermuth

Andy Malone

Brownstein Hyatt Farber Schreck, LLP

Wildermuth Environmental, Inc.

Wildermuth Environmental, Inc.

OTHERS PRESENT

Bill Leever

Rick Rees

Eunice Ulloa

John Rossi

Vivian Castro

Curtis Paxton Sheri Rojo Inland Empire Utilities Agency

AMEC

Chino Basin Water Conservation District

Western Municipal Water District

Chino Basin Water Conservation District

Chino Basin Desalter Authority

Fontana Water Company

CALL TO ORDER

Chair Hoerning called the Advisory Committee meeting to order at 9:05 a.m.

AGENDA - ADDITIONS/REORDER

None

I. CONSENT CALENDAR

A. MINUTES

1. Minutes of the Advisory Committee Meeting held January 21, 2016

B. FINANCIAL REPORTS

- 1. Cash Disbursements for the month of December 2015
- 2. Watermaster VISA Check Detail for the month of December 2015
- 3. Combining Schedule for the Period July 1, 2015 through December 31, 2015
- 4. Treasurer's Report of Financial Affairs for the Period December 1, 2015 through December 31, 2015
- 5. Budget vs. Actual Report for the Period July 1, 2015 through December 31, 2015

C. WATER TRANSACTION

The purchase of 500.000 acre-feet of water from San Antonio Water Company by Cucamonga Valley Water District. This purchase is made from San Antonio Water Company's storage Account. Date of application: September 8, 2015

(0:00:31)

Motion by Mr. Darron Poulsen, seconded by Mr. Mark Kinsey, and by unanimous vote **Moved to approve the Consent Calendar as presented.**

II. BUSINESS ITEMS

A. MID-YEAR REVIEW OF FISCAL YEAR 2015/16 (Information Only)

(0:01:12) The Committee opted to skip Business Item II.A., the Mid-Year Review of FY 2015/16 as it was already heard at the Pool meetings on February 11, 2016 and there have been no changes.

III. REPORTS/UPDATES

A. LEGAL COUNSEL REPORT

- 1. Motion re Board Reappointment
- 2. Motion re 2015 Safe Yield Reset Agreement
- 3. Non-Ag Pool Request for Entry of Order re Filing and Service

(0:02:00) The Committee opted to skip Item III.A., the Legal Counsel Report as it was already heard at the February 11, 2016 Pool meetings and there have been no changes.

B. CFO REPORT

None

C. GM REPORT

- 1. Basin Boundary Modification Update
- 2. Business Plan Update
- 3. Overlying Non-Agricultural Pool Available Water Per Restated Judgment Exhibit "G"
- 4. Chino Creek Wellfield In Service
- 5. Other

(0:02:31) Mr. Kavounas gave a report on Item III.C.1, the Basin Boundary Modification Update and skipped Items III.C.2 - 4 since they were the same reports as given at the Pool meetings on February 11, 2016 and have not changed. He also added an item regarding the press release related to the achievement of hydraulic control. A discussion ensued.

D. INLAND EMPIRE UTILITIES AGENCY

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

(0:04:58) Mr. Berch of Inland Empire Utilities Agency gave a presentation on MWD updates, the State Water Project, and Colorado River. A discussion ensued.

(0:38:22) Mr. Leever of Inland Empire Utilities Agency gave a presentation on Stormwater Recharge. A discussion ensued.

E. OTHER METROPOLITAN MEMBER AGENCY REPORTS

(0:15:19) Mr. Rossi of Western Municipal Water District shared an MWD presentation on Water Surplus and Management. A discussion ensued.

IV. INFORMATION

1. Cash Disbursements for January 2016

V. COMMITTEE MEMBER COMMENTS

(0:42:58) Mr. Kinsey commented on Watermaster's replenishment obligation. A discussion ensued.

VI. OTHER BUSINESS

None

VII. CONFIDENTIAL SESSION - POSSIBLE ACTION

None

ADJOURNMENT

Chair Hoerning adjourned the Advisory Committee meeting at 9:50 a.m.

	Secretary:	
Approved:		

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HAS

INTENTIONALLY

BEEN LEFT

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FOR PAGINATION

I. CONSENT CALENDAR

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PETER KAVOUNAS, P.E.

General Manager

STAFF REPORT

DATE:

March 17, 2016

TO:

Advisory Committee Members

SUBJECT:

Cash Disbursement Report - Financial Report B1 (January 31, 2016)

SUMMARY

Issue: Record of Cash Disbursements for the month of January 31, 2016.

Recommendation: Receive and file Cash Disbursements for January 31, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster

Budget.

Future Consideration

Advisory Committee: March 17, 2016; Receive and File

Watermaster Board: March 24, 2016; Receive and File (Normal Course of Business)

ACTIONS:

March 10, 2016 – Appropriative Pool – Unanimously approved

March 10, 2016 – Non-Agricultural Pool – Moved unanimously to receive and file, without approval

March 10, 2016 - Agricultural Pool - Unanimously approved

March 17, 2016 - Advisory Committee -

March 24, 2016 - Watermaster Board -

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 2016 were \$322,673.66.

The most significant expenditures during the month were to Wildermuth Environmental, Inc. in the amount of \$138,064.96 (check number 19148 dated January 13, 2016).

ATTACHMENTS

1. Financial Report - B1

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	01/08/2016	ACH 010816	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	12/31/2015	12/31/2015	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 12/20/15-01/02/16	2000 · Accounts Payable	6,045.30
TOTAI	-						6,045.30
	Bill Pmt -Check	01/12/2016	19117	CHARTER COMMUNICATIONS	8245100651455350	1012 · Bank of America Gen'l Ckg	
	Bill	01/01/2016	8245100651455350		1/06/16-2/05/16	6053 · Internet Expense	68.97
TOTAI	L						68.97
	Bill Pmt -Check	01/12/2016	19118	COSTCO WHOLESALE	7003-7309-1000-2744	1012 · Bank of America Gen'i Ckg	
	Bill	12/31/2015	7003730910002744		Miscellaneous office supplies	6031.7 · Other Office Supplies	34.99
					Toner for various office printers	6031.7 · Other Office Supplies	657.89
TOTA	L						692.88
	Bill Pmt -Check	01/12/2016	19119	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	12/08/2015	12/08 Ag Pool Mtg		12/08/15 Ag Pool Meeting held at MPC	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
-0	Bill Pmt -Check	01/12/2016	19120	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
7	Bill	12/08/2015	12/08 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					12/08/15 Ag Pool Meeting held at MPC	8470 · Ag Meeting Attend -Special	100.00
TOTA	L						125.00
	Bill Pmt -Check	01/12/2016	19121	DIRECTV	019447404	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	019447404		12/19/15 - 1/18/16	6031.7 · Other Office Supplies	110.98
TOTA	L						110.98
	Bill Pmt -Check	01/12/2016	19122	EGOSCUE LAW GROUP	11113	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	12/31/2015	11113		Ag Pool Legal Services - December 2015	8467 · Ag Legal & Technical Services	15,685.00
TOTA	L						15,685.00
	Bill Pmt -Check	01/12/2016	19123	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	12/08/2015	12/08 Ag Pool Mtg		12/08/15 Ag Pool Special Meeting held at MPC	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
	Bill Pmt -Check	01/12/2016	19124	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	12/08/2015	12/08 Ag Pool Mtg	•	12/08/15 Ag Pool Meeting held at MPC	8470 · Ag Meeting Attend -Special	125.00
TOTA	L		-				125.00
	Bill Pmt -Check	01/12/2016	19125	HOGAN LOVELLS	2952391	1012 · Bank of America Gen'l Ckg	

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill	12/01/2015	2952391		Non-Ag Pool Legal Services - November 2015	8567 · Non-Ag Legal Service	2,761.37
TOTA	L						2,761.37
		-414-14-		WWTONG JOHN		4040 7041 54 4 5 0 4 1 0 4	
	Bill Pmt -Check	01/12/2016	19126	HUITSING, JOHN	Ag Pool Member Compensation 12/08/15 Ag Pool Meeting held at MPC	1012 · Bank of America Gen'l Ckg	125.00
TOTA		12/08/2015	12/08 Ag Pool Mtg		12/06/13 Ag Fool Meeting held at MFC	8470 · Ag Meeting Attend -Special	125.00
IOIA	L						125.00
	Bill Pmt -Check	01/12/2016	19127	KOOPMAN, GENE	Ag Pool Member Meeting Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	12/08/2015	12/08 Ag Pool Mtg		12/08/15 Ag Pool Meeting held at MPC	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
	Bill Pmt -Check	01/12/2016	19128	OFFICE TEAM		1012 · Bank of America Gen'l Ckg	
	Bill	12/18/2015	44709042		Week ending 12/18/15	6017.2 · Office Specialist Services	1,108.00
~~~.	Bill .	12/28/2015	44714703		Week ending 12/25/15	6017.2 · Office Specialist Services	443.20
TOTA	.L						1,551.20
	Bill Pmt -Check	01/12/2016	19129	PARK PLACE COMPUTER SOLUTIONS, INC.	506	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	506	,	IT Consulting Services - December 2015	6052.1 · Park Place Comp Solutn	1,950.00
T <b>OT</b> A	.L						1,950.00
œ							
	Bill Pmt -Check	01/12/2016	19130	PAYCHEX	2015122400	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	2015122400		December 2015	6012 · Payroll Services	260.90
TOTA	L						260.90
		- / / / / / - / - / -	40.04		A. B. 186	1010 Paul SA aus Galliela	
	Bill Pmt -Check	01/12/2016	19131	PIERSON, JEFFREY	Ag Pool Member Compensation 12/08/15 Ag Pool Meeting held at MPC	1012 · Bank of America Gen'l Ckg 8470 · Ag Meeting Attend -Special	125.00
TOTA		12/08/2015	12/08 Ag Pool Mtg		12/00/13 Ag r ool Meeting field at Mr C	0470 Ag Meeting Attend -Special	125.00
1017	AL.						123.00
	Bill Pmt -Check	01/12/2016	19132	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	01/01/2016	100000014683177		Annual unfunded accrued liability	60180 · Employers PERS Expense	3,077.00
TOTA	AL.						3,077.00
	Bill Pmt -Check	01/12/2016	19133	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	8000909000168851		New postage machine installed on 12/10/15	6042 · Postage - General	160.84
TOTA	<b>AL</b>						160.84
	Bill Pmt -Check	01/12/2016	19134	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	0023230253		Office Water Bottle - December 2015	6031.7 · Other Office Supplies	71.89
TOTA						•	71.89

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	01/12/2016	19135	RR FRANCHISING, INC.	15732	1012 · Bank of America Gen'l Ckg	
	Bill	01/04/2016	15732		Janitorial Services - January 2016	6024 · Building Repair & Maintenance	740.00
TOTAL	<b>-</b>						740.00
	D'' D 4 01 1	0.4.4.0.00.4.0	10.100				
	Bill Pmt -Check	01/12/2016	19136	SANTA ANA RIVER WATER COMPANY	40/04/45 Advairs Mantiness Associate Dadvisses	1012 · Bank of America Gen'l Ckg	105.00
	Bill Bill	12/04/2015 12/21/2015	12/04 Admin Mtg 12/21 Admin Mtg		12/04/15 Admin. Meeting - Arnold Rodriguez 12/21/15 Admin. Meeting - Arnold Rodriguez	6311 · Board Member Compensation	125.00
TOTAI		12/21/2015	12/21 Admin Mig		12/21/15 Admin. Meeting - Amoid Rodriguez	6311 · Board Member Compensation	125.00 250.00
10174	<u></u>						230.00
	Bill Pmt -Check	01/12/2016	19137	SOUTHERN CALIFORNIA WATER COMMITTEE	26770	1012 · Bank of America Gen'l Ckg	
	Bill	01/04/2016	26770		Stormwater Task Force	6111 · Membership Dues	1,000.00
TOTAL	L						1,000.00
	Bill Pmt -Check	01/12/2016	19138	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	006492990009	STANDARD MOSTARIOZ GG.	Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	689.35
TOTA	L						689.35
	Bill Pmt -Check	01/12/2016	19139	STAPLES BUSINESS ADVANTAGE		1012 · Bank of America Gen'l Ckg	
70	Bill	12/31/2015	8037294210		Miscellaneous office supplies	6031.7 · Other Office Supplies	242.19
9	Bill	12/31/2015	8037202444		Toner for office printers	6031.7 · Other Office Supplies	125.67
TOTA	L						367.86
	Bill Pmt -Check	01/12/2016	19140	STATE COMPENSATION INSURANCE FUND	1970970-15	1012 · Bank of America Gen'l Ckg	
	Bill	01/01/2016	1970970-15	STATE SOME ENGATION INCOMMODET SND	1970970-15	60183 · Worker's Comp Insurance	961.58
TOTA		01/01/2010	1070070 10			oo, oo waxaa oo ah pinaananoo	961.58
10171	<b>-</b>						001.00
	Bill Pmt -Check	01/12/2016	19141	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	7076224530355049		Fuel - December 2015	6175 · Vehicle Fuel	69.20
TOTA	L						69.20
	Bill Pmt -Check Bill	<b>01/12/2016</b> 12/31/2015	<b>19142</b> 0039374721	UNITED HEALTHCARE	0039374721  Dental Insurance Premium - January 2016	1012 · Bank of America Gen'l Ckg 60182.2 · Dental & Vision Ins	710.00
TOTA		12/31/2015	0039374721		Dental insulance Plemium - January 2016	60 162.2 · Derital & Vision Ins	712.68 712.68
TOTA	L				•		712.66
	Bill Pmt -Check	01/12/2016	19143	UNITED PARCEL SERVICE	2x81x0	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	2x81x0		Ship package, schedule a pickup	6042 · Postage - General	25.10
TOTA	L						25.10
	Dill Dest Charle	04/46/0040	40444	VANDEN HELIVEL GEGERRY	Doord Mambay Company - 4	4042 - Pank of America Coull Clar	
	Bill Pmt -Check	01/12/2016	19144	VANDEN HEUVEL, GEOFFREY	Board Member Compensation 12/08/15 Ag Pool Special Meeting at MPC	1012 · Bank of America Gen'l Ckg 6311 · Board Member Compensation	125.00
	IIII	12/08/2015	12/08 Ag Pool Mtg		12/00/13 Ag FOO! Special Meeting at MPC	0011 - Doard Member Compensation	125.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTA	L						125.00
	Bill Pmt -Check	01/12/2016	19145	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	12/08/2015	12/08 Ag Pool Mtg		12/08/15 Ag Pool Meeting held at MPC	8470 · Ag Meeting Attend -Special	125.00
TOTA	L						125.00
	Bill Pmt -Check	01/12/2016	19146	VISION SERVICE PLAN	00-101789-0001	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	00-101789-0001		Vision Insurance Premium - January 2016	60182.2 Dental & Vision Ins	73.46
TOTA	.1.				·	•	73.46
1017							70.40
	Bill Pmt -Check	01/12/2016	19147	YUKON DISPOSAL SERVICE	08-K2 213849	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/01/2016	08-k2 213849		Disposal Service - January 2016	6024 · Building Repair & Maintenance	111.57
TOTA	L.					• •	111.57
	Bill Pmt -Check	01/13/2016	19148	WILDERMUTH ENVIRONMENTAL INC		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	11/30/2015	2015348	WIEDERWOTH ENVIRONMENTAL INC	2015348	6906.31 · OBMP-Pool, Adv. Board Mtgs	8,844.65
	Bill	11/30/2015	2015349		2015349	6906.32 · OBMP-Other General Meetings	215.00
	Bill	11/30/2015	2015350		2015350	6906.71 · OBMP-Data ReqCBWM Staff	19,295.50
70	Bill	11/30/2015	2015351		2015351	6906.72 · OBMP-Data RegNon CBWM Staff	333.75
10	Bill	11/30/2015	2015352		2015352	6906.23 · SGMA Reporting Requirements	608.75
0	Bill	11/30/2015	2015353		2015353	6906 · OBMP Engineering Services	3,511.25
	Bill	11/30/2015	2015354		2015354	6906.1 · OBMP-Watermaster Model Update	41,475.30
	Bill	11/30/2015	2015355		2015355	7103.3 · Grdwtr Qual-Engineering	18,250.60
	Bill	11/30/2015	2015356		2015356	7104.3 · Grdwtr Level-Engineering	11,891.06
	Bill	11/30/2015	2015357		2015357	7107.2 · Grd Level-Engineering	4,258.40
	Siii	11/00/2010	2010001		Zumasys	7107.6 · Grd Level-Contract Svcs	68.00
	Bill	11/30/2015	2015358		2015358	7108.3 · Hydraulic Control-Engineering	186.25
	Bill	11/30/2015	2015359		2015359	7108.3 · Hydraulic Control-Engineering	316.90
	Bill	11/30/2015	2015360		2015360	7108.31 · Hydraulic Control - PBHSP	5,645.65
	Bill	11/30/2015	2015361		2015361	7109.3 · Recharge & Well - Engineering	1,564.25
	Bill	11/30/2015	2015362		2015362	7202.2 · Engineering Svc	8,102.12
	Bill	11/30/2015	2015363		2015363	7402 · PE4-Engineering	866.25
	Bill	11/30/2015	2015364		2015364	7402.10 · PE4 - MZ1 Pomona Project	9,767.28
	Bill	11/30/2015	2015365		2015365	7502 · PE6&7-Engineering	1,550.00
	Bill	11/30/2015	2015366		2015366	6906.73 · OBMP-Safe Yield Recalculation	230.00
	Bill	11/30/2015	2015367		2015367	6910.1 · IRP Groundwater Modeling - WEI	1,084.00
TOTA							138,064.96
	Check	01/15/2016	01/15/2016	Service Charge	Service Charge	1012 · Bank of America Gen'l Ckg	
					Service Charge	6039.1 · Banking Service Charges	424.75

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL							424.75
	Compared lowers	04/46/2046	04/45/2045	Davie II and Tayon for 04/03/4C 04/4C/4C	Device II and Tayon for 04/02/40 04/40/40	4040. Deals of Associate Could Cha	
	General Journal	01/16/2016	01/16/2016	Payroll and Taxes for 01/03/16-01/16/16	Payroll and Taxes for 01/03/16-01/16/16  Direct Deposits for 01/03/16-01/16/16	1012 · Bank of America Gen'l Ckg 1012 · Bank of America Gen'l Ckg	23,662.84
					Payroll Taxes for 01/03/16-01/16/16	1012 · Bank of America Gen'l Ckg	9,711.00
				ICMA-RC	457(f) Employee Deductions for 01/03/16-01/16/16	ŭ	3,643.75
				ICMA-RC	401(a) Employee Deductions for 01/03/16-01/16/16	<u> </u>	1,189.58
TOTAL							38,207.17
							,
	Bill Pmt -Check	01/20/2016	19149	APPLIED COMPUTER TECHNOLOGIES	2642	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	2642		Database Consulting Services - December 2015	6052.2 · Applied Computer Technol	3,319.00
TOTAL							3,319.00
	Bill Pmt -Check	01/20/2016	19150	CORELOGIC INFORMATION SOLUTIONS	81630319	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	81630319		81630319	7103.7 · Grdwtr Qual-Computer Svc	62.50
					81630319	7101.4 · Prod Monitor-Computer	62.50
TOTAL	•						125.00
	nun ( 0)	0.4/0.0/0.04.0					
P <u>1</u>	Bill Pmt -Check	01/20/2016	<b>19151</b> Dec-1504	RAUCH COMMUNICATION CONSULTANTS, LLC		1012 · Bank of America Gen'l Ckg	4.074.00
TOTAL	Bill	12/31/2015	Dec-1504		Annual Report work completed-November 30, 2015	5 6061.3 · Rauch	4,971.00 4,971.00
TOTAL	-						4,971.00
	Bill Pmt -Check	01/26/2016	19152	ACWA JOINT POWERS INSURANCE AUTHORIT	0389559	1012 · Bank of America Gen'l Ckg	
	Bill	01/13/2016	0389559		Prepayment - February 2016	1409 · Prepaid Life, BAD&D & LTD	131.09
					January 2016	60191 · Life & Disab.Ins Benefits	126.66
TOTAL	-						257.75
	Bill Pmt -Check	01/26/2016	19153	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	XXXX-XXXX-XXXX-9341		Overnight payment to Great America-copier lease	6043.1 · Ricoh Lease Fee	35.18
					Lunch provided to staff for basin tour	7204 · Comp Recharge-Supplies	122.46
					Phone case for AGM's work cell	6031.7 · Other Office Supplies	14.99
					Registration-Joswiak-ACWA/JPIA HR training	6193.2 · Conference - Registration Fee	30.00
					Registration-Wilson-01/28/16 IAAP mtg at CVWD	6193.2 · Conference - Registration Fee	10.00
					Registration-Wilson-01/09/16 IAAP Adobe Acrobat	<del>-</del>	35.00
					Registration-Truong-01/09/16 IAAP Adobe Acrobat	<u>-</u>	35.00
					Purchase Annual Quickbooks Service Plan	6054 · Computer Software	1,799.00
					· · ·	6022 · Telephone 6191 · Conferences - General	374.40 723.79
					Hotel-PK-December 2015 ACWA Fall Conference	6191 · Conferences - General 6191 · Conferences - General	723.79 42.80
					Meal-PK-December 2015 ACWA Fall Conference Meal-PK-December 2015 ACWA Fall Conference	6191 · Conferences - General	42.80 27.68
					Wear-FN-December 2013 ACVVA Fair Conference	0191 Collielelices - Gellelal	21.00

	Type	Date	Num	Name	Memo	Account	Paid Amount
					Internet expense for GM-invoice lost in mail	6053 · Internet Expense	64.99
					Holiday staff luncheon	6141.3 · Admin Meetings	302.03
					Registration-PK-Feb. 8-9, 2016 SGMA Workshop	6193.2 - Conference - Registration Fee	430.00
					PK meeting w/Poulsen, City of Pomona	8312 · Meeting Expenses	41.67
					Flight-PK-Feb. 8-9, 2016 GRA SGMA Workshop	6191 · Conferences - General	148.46
					Early bird check-in for above flight	6191 · Conferences - General	25.00
					Registration-PK-Feb. 2016 AGWA-AGWT Conf.	6193.2 · Conference - Registration Fee	295.00
					PK meeting w/Zvirbulis, CVWD	8312 · Meeting Expenses	27.07
					PK meeting w/Bowcock	6312 · Meeting Expenses	20.87
					Flight-PK-Jan. 8, 2016 mtg w/lris Priestaf	6909.1 · OBMP Meetings	459.46
					Early bird check-in for above flight	6909.1 · OBMP Meetings	25.00
					Hotel-Maurizio-December 2015 ACWA Fall Conf.	6191 · Conferences - General	423.94
					Lunch for field staff interviews	6141.3 · Admin Meetings	70.26
TOTA	_						5,584.05
	Bill Pmt -Check	01/26/2016	19154	CALPERS	1394905143	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/15/2016	1394905143		Medical Insurance Premium - 1394905143	60182.1 · Medical Insurance	7,533.91
TOTA	-						7,533.91
P <u>1</u>							
2	Bill Pmt -Check	01/26/2016	19155	COMPUTER NETWORK		1012 · Bank of America Gen'l Ckg	
	Bill	12/30/2015	100393		USB portable hard drive	6055 · Computer Hardware	270.00
	Bill	01/06/2016	100422		(3) Hard drives - Seagate 32mb buffer	6055 · Computer Hardware	275.40
	Bill	01/06/2016	100423		(1) Video card XFX AMD Radeon HD 5450	6055 · Computer Hardware	70.20
	Bill	01/06/2016	100426		(2) Power supplies	6055 · Computer Hardware	97.20
	Bill	01/06/2016	100427		(3) Portable external hard drive	6055 · Computer Hardware	405.00
	Bill	01/07/2016	100430		(6) APC uninterruptible power supply	6055 · Computer Hardware	939.60
	Bill	01/08/2016	100436		Replacement battery for Lenovo laptop	6055 · Computer Hardware	64.80
TOTA	L						2,122.20
	Bill Pmt -Check	01/26/2016	19156	CORELOGIC INFORMATION SOLUTIONS	81647756	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	84647756	CONCEDED IN CHANALICH COLONIC	81647756	7103.7 · Grdwtr Qual-Computer Svc	62.50
	Ditt	12/01/2010	04041700		81647756	7101.4 · Prod Monitor-Computer	62.50
TOTA	I				57647765	7 TO 1.44 Trou Monitor Computer	125.00
10171	-						120.00
	Bill Pmt -Check	01/26/2016	19157	CUCAMONGA VALLEY WATER DISTRICT	Lease due February 1, 2016	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/18/2016			Lease due February 1, 2016	1422 · Prepaid Rent	6,371.16
TOTA	L			•			6,371.16
	Bill Pmt -Check	01/26/2016	19158	GREAT AMERICA LEASING CORP.	18159935	1012 · Bank of America Gen'l Ckg	
	Bill	01/18/2016	18159935		Invoice	6043.1 · Ricoh Lease Fee	3,285.29

	Type	Date	Num	Name	Memo	Account	Paid Amount
TOTA	L						3,285.29
	Bill Pmt -Check	01/26/2016	19159	HR DIRECT / GNEIL	INV3544354	1012 · Bank of America Gen'l Ckg	
	Bill	01/13/2016	INV3544354		2016 Poster guard protection-Federal HR Posters	6031.7 · Other Office Supplies	75.59
TOTA	L						75.59
	Bill Pmt -Check	01/26/2016	19160	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	0111802	223.12 3.1122	Employee deductions - January 2016	60194 · Other Employee Insurance	51.80
TOTA	I					, ,	51.80
	_						
	Bill Pmt -Check	01/26/2016	19161	LEVEL 3 COMMUNICATIONS	09470254	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	09470254		1/10/16-2/09/16	6053 · Internet Expense	1,055.23
TOTA	L						1,055.23
	Bill Pmt -Check	01/26/2016	19162	MAURIZIO, DANIELLE	Employee Reimbursement of Expenses	1012 · Bank of America Gen'l Ckg	
	Bill	01/22/2016			Field staff interviews/lunch	6016 · New Employee Search Costs	185.16
					Meal for 2015 ACWA Fall Conference	6191 · Conferences - General	3.78
					Purchase supplies for w/q	7103.6 · Grdwtr Qual-Supplies	20.70
T <b>OO</b> A	L						209.64
3							
	Bill Pmt -Check	01/26/2016	19163	OFFICE TEAM	44838557	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	44838557		Week ending 1/08/16	6017.2 · Office Specialist Services	1,108.00
TOTA	L						1,108.00
	Bill Pmt -Check	01/26/2016	19164	PREMIERE GLOBAL SERVICES	20131141	1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	20131141		WM coordination call on 11/30	6909.1 · OBMP Meetings	16.54
					WM coordination call on 12/07	6909.1 · OBMP Meetings	18.46
					WM coordination call on 12/07	6909.1 · OBMP Meetings	12.96
					WM coordination call on 12/07	6909.1 · OBMP Meetings	19.62
					San Sevaine Basin call on 12/08	6909.1 · OBMP Meetings	13.35
					San Sevaine Basin call on 12/08	6909.1 · OBMP Meetings	22.92
					Administrative call on 12/11	6141.3 · Admin Meetings 6909.1 · OBMP Meetings	18.01 5.48
					WM coordination call on 12/14  WM coordination call on 12/14	6909.1 · OBMP Meetings	10.38
					WM coordination call on 12/14	6909.1 · OBMP Meetings	5.06
					WM coordination call on 12/14	6909.1 · OBMP Meetings	24.03
					Fee - Confidential Line	6022 · Telephone	49.00
					Fee - General line	6022 · Telephone	49.00
					Service fee	6022 · Telephone	5.97
TOTA	<b>\1</b>				33,7133 100	3322 Soprions	270.78
1017	<b>1</b> L						2, 3.70

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	01/26/2016	19165	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	01/13/2016	1394905143		1959 Survivor Benefit - PEPRA staff	60180 · Employers PERS Expense	84.00
	Bill	01/14/2016	1394905143		1959 Survivor Benefit - Classic staff	60180 · Employers PERS Expense	252.00
TOTAL							336.00
	Bill Pmt -Check	01/26/2016	19166	R&D PEST SERVICES	0197483	1012 · Bank of America Gen'l Ckg	
	Bill	01/13/2016	0197483		Pest control-ants and fleas	6024 · Building Repair & Maintenance	100.00
TOTAL							100.00
	Bill Pmt -Check	01/26/2016	19167	RR FRANCHISING, INC.	16767	1012 · Bank of America Gen'l Ckg	
	Bill	01/13/2016	16767		Carpet cleaning on 1/09/16	6024 · Building Repair & Maintenance	600.00
TOTAL							600.00
	Bill Pmt -Check	01/26/2016	19168	SAN BERNARDINO COUNTY FLOOD CONTROL	P-11998284, File No. 1-801/2.04	1012 · Bank of America Gen'l Ckg	
	Bill	01/22/2016	Permit P-11998284		Annual Inspection Fee for San Sevaine Channel	6909.3 · Other OBMP Expenses	1,315.00
TOTAL							1,315.00
ب	Bill Pmt -Check	01/26/2016	19169	STANDARD INSURANCE CO.	Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg	
4	Bill	01/18/2016	006492990009		Policy # 00-649299-0009	60191 · Life & Disab.Ins Benefits	736.72
TOTAL	-						736.72
	Bill Pmt -Check	01/26/2016	19170	STAPLES BUSINESS ADVANTAGE	8037539615	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	8037539615		Miscellaneous office supplies	6031.7 · Other Office Supplies	167.92
TOTAL	•						167.92
	Bill Pmt -Check	01/26/2016	19171	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
	Bill	01/31/2016			Amount effective January 2016	60182.4 · Retiree Medical	23.62
TOTAL	-						23.62
	Bill Pmt -Check	01/26/2016	19172	THREE VALLEYS MUNICIPAL WATER DIST	2/18/16 Leadership Breakfast	1012 · Bank of America Gen'l Ckg	
	Bill	01/15/2016			2/18/16 Leadership Breakfast for Peter Kavounas	6192 · Seminars - General	20.00
TOTAL	-						20.00
	Bill Pmt -Check	01/26/2016	19173	UNITED HEALTHCARE	039622701	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	0039622701		Dental Insurance Premium - February 2016	60182.2 · Dental & Vision Ins	833.15
TOTAI	L						833.15
	Bill Pmt -Check	01/26/2016	19174	VERIZON	012519128144592510	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	012519128144592510		012519128144592510	6022 · Telephone	145.29

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTA		archive must class. (Riggespunkerrouses)	I mende a considerado de como contrato y accomação a construir do como de como		The state of the s	Edition of the state of the sta	. 145.29
	Bill Pmt -Check	01/26/2016	19175	VERIZON WIRELESS	642073270-00001	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/24/2016	642073270-00001	VERIZOR WINCELSO	642073270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.04
TOTA	L					·	100.04
	Bill Pmt -Check	01/26/2016	19176	ZAPIEN, ENRIQUE	Employee Reimbursement	1012 · Bank of America Gen'l Ckg	
	Bill	01/18/2016			Reimburse for purchase-safety shoes for field work	c 6154 · Uniforms	168.93
TOTA	L						168.93
	Bill Pmt -Check	01/26/2016	19177	VERIZON WIRELESS	470810953-00001	1012 · Bank of America Gen'l Ckg	
	Bill	01/15/2016	470810953-00001		470810953-00001	6022 · Telephone	299.61
TOTA	L						299.61
	Bill Pmt -Check	<b>01/26/2016</b> 01/16/2016	ACH 012616 01/16/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493  CalPERS Retirement for 01/03/16-01/16/16	1012 · Bank of America Gen'l Ckg 2000 · Accounts Payable	6,437.65
TOTA	General Journal	01/16/2016	01/16/2016	FUBLIC EMPLOTEES RETIREMENT STSTEM	Carers Remember 101 01/03/10-01/10/16	2000 · Accounts rayable	6,437.65
7017	•••						2,
70	Bill Pmt -Check	01/27/2016	19178	APPLIED COMPUTER TECHNOLOGIES	2657	1012 · Bank of America Gen'l Ckg	
<u> </u>	Bill	01/25/2016	2657		Database Consulting Services - January 2016	6052.2 · Applied Computer Technol	3,319.00
TOTA	L						3,319.00
	Dill Dest Charle	04/07/0046	40470	DIRECTV	019447404	1012 · Bank of America Gen'l Ckg	
	Bill Pmt -Check	<b>01/27/2016</b> 01/26/2016	<b>19179</b> 019447404	DIRECTV	1/19/16 - 2/18/16	6031.7 · Other Office Supplies	110.98
TOTA		0 1/20/2010	310147407		7,0,10 2,10,10	Outer Caretine	110.98
	Bill Pmt -Check	01/27/2016	19180	OFFICE TEAM	44898604	1012 · Bank of America Gen'l Ckg	
	Bill	01/26/2016	44898604		Week ending 1/15/16	6017.2 · Office Specialist Services	1,153.29
TOTA	L						1,153.29
	Bill Pmt -Check	01/27/2016	19181	PARK PLACE COMPUTER SOLUTIONS, INC.	507	1012 · Bank of America Gen'l Ckg	
	Bill	01/26/2016	507	TARRY LAGE COM CTERCOLOTIONS, INC.	IT Consulting Services - January 2016	6052.1 · Park Place Comp Solutin	1,575.00
TOTA	.L						1,575.00
	Bill Pmt -Check	01/27/2016	19182	RAUCH COMMUNICATION CONSULTANTS, LL		1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	Jan-1616		Annual Report work through December 31, 2015	6061.3 · Rauch	11,911.25
TOTA	AL.						11,911.25
	Bill Pmt -Check	01/27/2016	19183	READY REFRESH BY NESTLE	0023230253	1012 · Bank of America Gen'l Ckg	
	Bill	01/26/2016	0023230253		Office Water Bottle - January 2016	6031.7 · Other Office Supplies	53.93

	Type	Date	Num	Name	Memo	Account	Paid Amount
TOTA	\L						53.93
	Bill Pmt -Check	01/27/2016	19184	SANDERS, LAURA		1012 · Bank of America Gen'l Ckg	
	Bill	01/27/2016	15104	SANDERS, LAURA		6046 · Legal Publications/Services	228.00
TOTA		0112012010			ration pero manna	Co to Logar i abiloatione/Co. Vioco	228.00
.017							220.00
	Bill Pmt -Check	01/27/2016	19185	STAPLES BUSINESS ADVANTAGE	8037638222	1012 · Bank of America Gen'l Ckg	
	Bill	01/26/2016	8037638222		Miscellaneous office supplies	6031.7 · Other Office Supplies	194.34
TOTA	AL.						194.34
					•		
	Bill Pmt -Check	01/27/2016	19186	STATE COMPENSATION INSURANCE FUND	1970970-15	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	1970970-15		1970970-15	60183 · Worker's Comp Insurance	961.58
TOTA	AL.						961.58
	General Journal	01/30/2016	01/30/2016	Payroll and Taxes for 01/17/16-01/30/16	Payroll and Taxes for 01/17/16-01/30/16	1012 · Bank of America Gen'l Ckg	
					Direct Deposits for 01/17/16-01/30/16	1012 · Bank of America Gen'l Ckg	23,001.03
					Payroll Taxes for 01/17/16-01/30/16	1012 · Bank of America Gen'l Ckg	8,568.40
					Payroll Checks for 01/17/16-01/30/16	1014 · Bank of America P/R Ckg	564.90
P				ICMA-RC	457(f) Employee Deductions for 01/17/16-01/30/16	· ·	3,874.52
δ				ICMA-RC	401(a) Employee Deductions for 01/17/16-01/30/16	1012 · Bank of America Gen'l Ckg	1,189.58
TOT	AL .						37,198.43
	General Journal	01/29/2016	01/29/16	Payroll and Taxes for 01/29/16	Payroll and Taxes for 01/29/16	1012 · Bank of America Gen'l Ckg	
					Direct Deposit for 01/29/16	1012 · Bank of America Gen'l Ckg	1,320.42
					Payroll Taxes for 01/29/16	1012 · Bank of America Gen'l Ckg	293,33
				ICMA-RC	401(a) Employee Deduction for 01/29/16	1012 · Bank of America Gen'l Ckg	66.24
TOT	AL.						1,679.99
	General Journal	01/31/2016	01/31/2016	Wage Works FSA Direct Debits - Jan. 2016	Wage Works FSA Direct Debits - Jan. 2016	1012 · Bank of America Gen'l Ckg	
					Wage Works FSA Direct Debits - Jan. 2016	1012 · Bank of America Gen'l Ckg	511.14
					Wage Works FSA Direct Debits - Jan. 2016	1012 · Bank of America Gen'l Ckg	692.14
					Wage Works FSA Direct Debits - Jan. 2016	1012 · Bank of America Gen'l Ckg	76.25
TOT	AL			·			1,279.53
						Total Disbursements:	222 572 55
						iotai Dispuisements:	322,673.66



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#### PETER KAVOUNAS, P.E.

General Manager

#### STAFF REPORT

DATE:

March 17, 2016

TO:

**Advisory Committee Members** 

SUBJECT:

VISA Check Detail Report - Financial Report B2 (January 31, 2016)

#### SUMMARY

Issue: Record of VISA credit card payment disbursed for the month of January 31, 2016.

Recommendation: Receive and file VISA Check Detail Report for January 31, 2016 as presented.

Financial Impact: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster

Budget.

**Future Consideration** 

Advisory Committee: March 17, 2016; Receive and File

Watermaster Board: March 24, 2016; Receive and File (Normal Course of Business)

#### ACTIONS:

March 10, 2016 - Appropriative Pool - Unanimously approved

March 10, 2016 - Non-Agricultural Pool - Moved unanimously to receive and file, without approval

March 10, 2016 - Agricultural Pool - Unanimously approved

March 17, 2016 – Advisory Committee – March 24, 2016 – Watermaster Board –

#### BACKGROUND

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

#### DISCUSSION

The total cash disbursement during the month of January 2016 was \$5,584.05. The payment was processed by check number 19153 dated January 26, 2016. The monthly charges for January 2016 of \$5,584.05 were for routine and customary expenditures and properly documented with receipts.

#### **ATTACHMENTS**

1. Financial Report - B2

#### CHINO BASIN WATERMASTER VISA Check Detail Report January 2016

Туре	Num	Date	Name	Memo	Account	Paid Amount
Bill Pmt -Check	01/26/2016	19153	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
Bill	12/31/2015	XXXX-XXXX-XX	CXX-9341	Overnight payment to Great America-copier lease	6043.1 · Ricoh Lease Fee	35.18
				Lunch provided to staff for basin tour	7204 · Comp Recharge-Supplies	122.46
				Phone case for AGM's work cell	6031.7 · Other Office Supplies	14.99
				Registration-Joswiak-ACWA/JPIA HR training	6193.2 · Conference - Registration Fee	30,00
				Registration-Wilson-01/28/16 IAAP mtg at CVWD	6193.2 · Conference - Registration Fee	10.00
				Registration-Wilson-01/09/16 IAAP Adobe Acrobat	6193.2 · Conference - Registration Fee	35.00
				Registration-Truong-01/09/16 IAAP Adobe Acrobat	6193.2 · Conference - Registration Fee	35.00
				Purchase Annual Quickbooks Service Plan	6054 · Computer Software	1,799.00
				Renewal-Go To Meeting Annual Plan-conferencing	6022 · Telephone	374.40
				Hotel-PK-December 2015 ACWA Fall Conference	6191 · Conferences - General	723.79
				Meal-PK-December 2015 ACWA Fall Conference	6191 · Conferences - General	42.80
				Meal-PK-December 2015 ACWA Fall Conference	6191 · Conferences - General	27.68
				Internet expense for GM-invoice lost in mail	6053 · Internet Expense	64.99
				Holiday staff luncheon	6141.3 · Admin Meetings	302.03
				Registration-PK-Feb. 8-9, 2016 SGMA Workshop	6193.2 · Conference - Registration Fee	430.00
				PK meeting w/Poulsen, City of Pomona	8312 · Meeting Expenses	41.67
				Flight-PK-Feb. 8-9, 2016 GRA SGMA Workshop	6191 · Conferences - General	148.46
70				Early bird check-in for above flight	6191 · Conferences - General	25.00
<u> </u>				Registration-PK-Feb. 2016 AGWA-AGWT Conf.	6193.2 · Conference - Registration Fee	295.00
ဖ				PK meeting w/Zvirbulis, CVWD	8312 · Meeting Expenses	27.07
				PK meeting w/Bowcock	6312 · Meeting Expenses	20.87
				Flight-PK-Jan. 8, 2016 mtg w/lris Priestaf	6909.1 · OBMP Meetings	459.46
				Early bird check-in for above flight	6909.1 · OBMP Meetings	25.00
				Hotel-Maurizio-December 2015 ACWA Fall Conf.	6191 · Conferences - General	423.94
				Lunch for field staff interviews	6141.3 · Admin Meetings	70.26
TOTAL					Total Disbursements:	5,584.05

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### PETER KAVOUNAS, P.E. General Manager

#### STAFF REPORT

DATE:

March 17, 2016

TO:

**Advisory Committee Members** 

SUBJECT:

Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period

July 1, 2015 through January 31, 2016 - Financial Report B3 (January 31, 2016)

#### SUMMARY

<u>Issue</u>: Record of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2015 through January 31, 2016.

<u>Recommendation</u>: Receive and file Combining Schedule of Revenue, Expenses and Changes in Net Assets for the Period July 1, 2015 through January 31, 2016 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

**Future Consideration** 

Advisory Committee: March 17, 2016; Receive and File

Watermaster Board: March 24, 2016; Receive and File (Normal Course of Business)

ACTIONS:

March 10, 2016 - Appropriative Pool - Unanimously approved

March 10, 2016 - Non-Agricultural Pool - Moved unanimously to receive and file, without approval

March 10, 2016 - Agricultural Pool - Unanimously approved

March 17, 2016 - Advisory Committee -

March 24, 2016 - Watermaster Board -

#### **BACKGROUND**

A Combining Schedule of Revenue, Expenses and Changes in Net Assets for the period July 1, 2015 through January 31, 2016 is provided to keep all members apprised of the FY 2015/16 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 15.0, 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, 2015 THROUGH JANUARY 31, 2016

		OPTIMUM	POOL ADMINISTRA	ATION & SPECIA	L PROJECTS	GROUNDWATER C	PERATIONS		GASB 68		AMENDED
	WATERMASTER	BASIN	APPROPRIATIVE	AG	NON-AG	GROUNDWATER	SB222	LAIF	BEG. NET	GRAND	BUDGET
	ADMINISTRATION	MANAGEMENT	POOL	POOL	POOL	REPLENISHMENT	FUNDS	VALUE ADJ.	POSITION	TOTALS	2015-2016
Administrative Revenues:		·									
Administrative Assessments			3,569,781		151,739					3,721,520	8,934,215
Interest Revenue			9,201	837	60					10,098	22,050
Mutual Agency Project Revenue	157,349									157,349	157,941
Miscellaneous Income										-	0
Total Revenues	157,349	-	3,578,982	837	151,800	-	-	-	_	3,888,968	9,114,206
Administrative & Project Expenditures:											
Watermaster Administration	780,112									780,112	1,227,268
Watermaster Board-Advisory Committee	91,322									91,322	222,418
Ag Pool Misc. Expense - Ag Fund										-	400
Pool Administration			28,316	249,208	55,605					333,129	595,933
Optimum Basin Mgmt Administration		1,138,138								1,138,138	1,473,093
OBMP Project Costs		1,239,162								1,239,162	3,525,355
Debt Service		304,376								304,376	460,200
Basin Recharge Improvements		386,128								386,128	3,472,477
Mutual Agency Project Costs	P									-	10,000
Total Administrative/OBMP Expenses	871,434	3,067,803	28,316	249,208	55,605	-	-	-	-	4,272,367	10,987,144
Net Administrative/OBMP Expenses	(714,085)	(3,067,803)									
Allocate Net Admin Expenses To Pools	714,085	=	516,993	173,623	23,469					-	
Allocate Net OBMP Expenses To Pools		2,377,300	1,721,150	578,019	78,131					-	
Allocate Debt Service to App Pool		304,376	304,376							-	
Allocate Basin Recharge to App Pool		386,128	386,128							-	
Agricultural Expense Transfer*			1,000,851	(1,000,851)							
N Total Expenses			3,957,813		157,204	-	-	_	-	4,272,367	10,987,144
				_							
		1	(378,831)	837	(5,404)	-	-	-	-	(383,398)	(1,872,938)
				837		-	<del>-</del>	-	-		
Other Income/(Expense)		•		837		-	-	-	-		(1,872,938)
Other Income/(Expense) Replenishment Water Assessments				837		-		-	-		(1,872,938)
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases				837		-			-		(1,872,938) 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water				837		-	-			(383,398)	(1,872,938) 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue				837		2,403	-				(1,872,938) 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases				837		- - 2,403	_			(383,398)	(1,872,938) 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases				837		- - 2,403	_		-	(383,398)	(1,872,938) 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water				837		- - 2,403	-	-		(383,398)	(1,872,938) 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases				837		- - 2,403	-		-	(383,398)	(1,872,938) 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment				837		- - 2,403	-	<u>-</u>	-	(383,398)	(1,872,938) 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment				837		- - 2,403	_	-	-	(383,398)	(1,872,938) 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB)				837		- - 2,403	<u>-</u>	-	-	(383,398)	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves				837		- - 2,403	_	-	-	(383,398)	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt			(378,831) - - -		(5,404) - -		-	-	-	(383,398) - - - 2,403 - - - - - -	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves				837		2,403	-	-	-	(383,398)	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt		(380,996)	(378,831) - - -		(5,404) - -		-	-	-	(383,398) - - - 2,403 - - - - - -	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt Net Other Income/(Expense)  Net Transfers To/(From) Reserves		(380,996) 0	(378,831)	- 837	(5,404) - - - (5,404)	2,403 2,403	-	-	-	(383,398) - - - - 2,403 - - - - - - - - - - - - -	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt Net Other Income/(Expense)  Net Transfers To/(From) Reserves  Net Assets, July 1, 2015			(378,831) (378,831) 6,346,620	- 837 481,130	(5,404) - - (5,404) 69,774	2,403 2,403 1,388,080	- - - 158,251	3,446	- - - (740,195)	(383,398)  2,403  2,403  (380,996)	(1,872,938) 0 0 0 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt Net Other Income/(Expense)  Net Transfers To/(From) Reserves			(378,831)	- 837	(5,404) - - - (5,404)	2,403 2,403	-	-	-	(383,398) - - - - 2,403 - - - - - - - - - - - - -	(1,872,938) 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt Net Other Income/(Expense)  Net Transfers To/(From) Reserves  Net Assets, July 1, 2015			(378,831) (378,831) 6,346,620	- 837 481,130	(5,404) - - (5,404) 69,774	2,403 2,403 1,388,080	- - - 158,251	3,446	- - - (740,195)	(383,398)  2,403  2,403  (380,996)	(1,872,938) 0 0 0 0 0 0 0 0 0 0 0 0 0
Other Income/(Expense) Replenishment Water Assessments Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water Interest Revenue MWD Water Purchases Non-Ag Stored Water Purchases Exhibit "G" Non-Ag Pool Water MWD Water Purchases Groundwater Replenishment LAIF - Fair Market Value Adjustment Other Post-Employment Benefits (OPEB) Refund-Excess Reserves Refund-Recharge Debt Net Other Income/(Expense)  Net Transfers To/(From) Reserves  Net Assets, July 1, 2015 Net Assets, End of Period			(378,831) (378,831) - (378,831) - (378,831) 5,346,620 5,967,788	- 837 481,130 481,968	(5,404) - - - (5,404) 69,774 64,370	2,403 2,403 1,388,080 1,390,482	- - - 158,251	3,446	- - - (740,195)	(383,398)  2,403 2,403 (380,996) 7,707,106 7,326,110	(1,872,938)  0 0 0 0 0 0 0 0 0 0 0 (1,872,938)

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

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### PETER KAVOUNAS, P.E.

General Manager

#### STAFF REPORT

DATE:

March 17, 2016

TO:

**Advisory Committee Members** 

SUBJECT:

Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January

31, 2016 - Financial Report B4 (January 31, 2016)

#### SUMMARY

<u>Issue</u>: Record of increases or decreases in the cash position, assets and liabilities of Watermaster for the Period of January 1, 2016 through January 31, 2016.

<u>Recommendation</u>: Receive and file Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

**Future Consideration** 

Advisory Committee: March 17, 2016; Receive and File

Watermaster Board: March 24, 2016; Receive and File (Normal Course of Business)

#### ACTIONS:

March 10, 2016 – Appropriative Pool – Unanimously approved

March 10, 2016 - Non-Agricultural Pool - Moved unanimously to receive and file, without approval

March 10, 2016 - Agricultural Pool - Unanimously approved

March 17, 2016 - Advisory Committee -

March 24, 2016 - Watermaster Board -

#### **BACKGROUND**

A Treasurer's Report of Financial Affairs for the Period January 1, 2016 through January 31, 2016 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 15.0, 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

CHANGE IN CASH POSITION DUE TO:

#### CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD JANUARY 1, 2016 THROUGH JANUARY 31, 2016

	DEPOSITORIES: Cash on Hand - Petty Cash Bank of America Governmental Checking-Demand Deposits		\$ 35,754	\$	500
	Zero Balance Account - Payroll Local Agency Investment Fund - Sacramento		\$ -		35,754 8,988,927
	TOTAL CASH IN BANKS AND ON HAND TOTAL CASH IN BANKS AND ON HAND	1/31/2016 12/31/2015		\$	<b>9,025,181</b> 9,331,120
	PERIOD INCREASE (DECREASE)				(305,939)
CASH POSITION DUE TO:					
	Assessments Receivable Prepaid Expenses, Deposits & Other Current Assets			\$	(11,705) 9,104 9,349 247,980
·	Accrued Payroll, Payroll Taxes & Other Current Liabilities Long Term Liabilities Transfer to/(from) Reserves			1.1130-1040	1,882 2,248 (564,797)
	PERIOD INCREASE (DECREASE)			<u>\$</u>	(305,939)

	 Petty Cash	G	ovt'l Checking Demand	Ze	ero Balance Account Payroll	Local Agency vestment Funds	 Totals
SUMMARY OF FINANCIAL TRANSACTIONS:  Balances as of 12/31/2015  Deposits  Transfers  Withdrawals/Checks	\$ 500 - - -	\$	347,863 10,564 (89,617) (233,057)	\$	- - (65,765) 65,765	\$ 8,982,757 6,170 - -	\$ 9,331,120 16,734 (155,382) (167,292)
Balances as of 1/31/2016	\$ 500	\$	35,754	\$		\$ 8,988,927	\$ 9,025,181
PERIOD INCREASE OR (DECREASE)	\$ -	\$	(312,110)	\$	_	\$ 6,170	\$ (305,939)

# CHINO BASIN WATERMASTER TREASURER'S REPORT OF FINANCIAL AFFAIRS FOR THE PERIOD JANUARY 1, 2016 THROUGH JANUARY 31, 2016

#### INVESTMENT TRANSACTIONS

Effective					Days to	Interest	Maturity
Date	Transaction	Depository	Activity	Redeemed	Maturity	Rate(*)	Yield
1/15/2016	Interest		\$ 6,170				
TOTAL INVEST	MENT TRANSAC	CTIONS	\$ 6,170		_		

^{*} The earnings rate for L.A.I.F. is a daily variable rate; 0.37% was the effective yield rate at the Quarter ended December 31, 2015.

#### INVESTMENT STATUS January 31, 2016

Financial Institution	rincipal Amount	Number of Days	Interest Rate	Maturity Date
Local Agency Investment Fund	\$ 8,988,927			
TOTAL INVESTMENTS	\$ 8,988,927			

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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### PETER KAVOUNAS, P.E. General Manager

#### STAFF REPORT

DATE:

March 17, 2016

TO:

**Advisory Committee Members** 

SUBJECT:

Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016 -

Financial Report B5 (January 31, 2016)

#### SUMMARY

<u>Issue</u>: Record of revenues and expenses of Watermaster for the Period of July 1, 2015 through January 31, 2016.

Recommendation: Receive and file Budget vs. Actual Report for the Period July 1, 2015 through January 31, 2016 as presented.

<u>Financial Impact</u>: Funds disbursed were included in the FY 2015/16 "Amended" Watermaster Budget.

**Future Consideration** 

Advisory Committee: March 17, 2016; Receive and File

Watermaster Board: March 24, 2016; Receive and File (Normal Course of Business)

#### <u>ACTIONS:</u>

March 10, 2016 - Appropriative Pool - Unanimously approved

March 10, 2016 - Non-Agricultural Pool - Moved unanimously to receive and file, without approval

March 10, 2016 - Agricultural Pool - Unanimously approved

March 17, 2016 - Advisory Committee -

March 24, 2016 - Watermaster Board -

#### **BACKGROUND**

A Budget vs. Actual Report for the period July 1, 2015 through January 31, 2016 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 15.0, 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 2016**

Year-To-Date (YTD) for the seven months ending January 31, 2016, all but six categories were at or below the projected budget. The categories over budget were Watermaster Legal Services expenses (6070's) which were over budget by \$20,522 or 15.8% as a result of increased miscellaneous legal expenses, additional personnel related expenses, and the unanticipated CCG Motion related legal expenses not budgeted for FY 2015/16; Training, Conferences and Seminars expenses (6190's) which were over budget by \$2,710 or 19.5% as a result of a membership in Vistage which provides leadership training and development; Agricultural Legal Services expenses (8467) which were over budget by \$88,076 or 73.7% as a result of ongoing Safe Yield Redetermination and Reset efforts; Agricultural Pool Meeting Attendance expenses (8470's) which were over budget by \$5,875 or 45.4% as a result of the Agricultural Pool's Special Meetings which were not anticipated when the FY 2015/16 budget was developed; OBMP expenses (6900's) were over budget by \$200,131 or 22.5% as a result of engineering and legal services supporting the ongoing Safe Yield Redetermination and Reset efforts; and Production Monitoring expenses (7101's) which were over budget by \$16,909 or 50.5% as a direct result of ongoing efforts of Watermaster staff in production reporting.

The Watermaster budget for FY 2015/16 is divided into 12-monthly amounts and allocated accordingly. As the fiscal year progresses, several of the above listed categories might level out over time and be within the budget levels.

Overall, the Watermaster (YTD) Actual Expenses were \$3,602,218 or 45.7% below the (YTD) Budgeted Expenses of \$7,874,585.

#### PREVIOUSLY REPORTED ACTIONS (Descending Order)

#### July 2015:

During the month of July 2015, the "Carry Over" funding was calculated. The Total "Carry Over" funding amount of \$1,872,937.85 has been posted to the general ledger accounts. The total amount of \$1,872,937.85 consisted of \$1,686,955.86 from Capital Improvement Projects, \$136,696 from Engineering Services, \$29,285.99 from Chino Hills ASR, and \$20,000 from the Administrative section for the Annual Reports. More detailed information is provided regarding this issue under the "Carry Over" Funding section.

The Amended Budget for FY 2015/16 is \$10,987,143.85 which includes \$1,872,937.85 for the prior years "Carry Over" funding. The Original Approved budget for FY 2015/16 of \$9,114,206 was approved by the Watermaster Board on May 28, 2015 (\$9,114,206 + \$1,872,937.85 = \$10,987,143.85).

#### SALARIES EXPENSE

#### CURRENT MONTH - JANUARY 2016

As of January 31, 2016, the total (YTD) Watermaster salary expenses were \$71,281 or 7.7% below the (YTD) budgeted amount of \$930,795. The overall staffing budget was developed with a staffing level of

nine Full-Time Equivalents (FTE's), and staffing is currently at nine Full-Time Equivalents (FTE's).

Watermaster completed the recruiting process for the position of Field Operations Specialist which became vacant as of August 27, 2015. Rick Zapien started on Monday, January 4, 2016.

On September 16, 2015, Office Specialist/Receptionist was placed on Pregnancy Disability Leave (PDL) by her physician. Based upon the PDL leave and concurrently running FMLA leave, the employee was scheduled, and did return on Monday, February 22, 2016. During her absence, Watermaster utilized a temporary employee to perform the duties and responsibilities.

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 2015/16 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, 2016. 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 '15 - Jan '16	Jul '15 - Jan '16			FY 2015/16
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
WM Salary Expense					
6011 · WM Staff Salaries	495,503.08	502,806.00	-7,302.92	98.55%	848,891.00
6017· Temporary Services	0.00	12,250.00	-12,250.00	0.0%	21,000.00
6017.2 · Office Specialist Services	7,385.46	0.00	7,385.46	100.0%	0.00
6201 · Advisory Committee - WM Staff Salaries	9,516.93	13,193.00	-3,676.07	72.14%	22,274.00
6301 · Watermaster Board - WM Staff Salaries	17,550.52	21,843.00	-4,292.48	80.35%	36,879.00
8301 · Appropriative Pool - WM Staff Salaries	18,022.30	17,603.00	419.30	102.38%	29,719.00
8401 · Agricultural Pool - WM Staff Salaries	12,212.89	15,453.00	-3,240.11	79.03%	26,090.00
8501 · Non-Agricultural Pool - WM Staff Salaries	10,464.64	9,224.00	1,240.64	113.45%	15,574.00
6901 · OBMP - WM Staff Salaries	79,080.79	73,866.00	5,214.79	107.06%	124,709.00
7101.1 · Production Monitor - WM Staff Salaries	49,958.46	33,049.00	16,909.46	151.17%	55,797.00
7102.1 · In-line Meter - WM Staff Salaries	2,708.23	5,457.00	-2,748.77	49,63%	9,212.00
7103.1 · Grdwater Quality - WM Staff Salaries	5,008.67	32,288.00	-27,279.33	15.51%	54,511.00
7104.1 · Grdwater Level - WM Staff Salaries	37,356.77	25,142.00	12,214.77	148.58%	42,447.00
7108.1 · Hydraulic Control - WM Staff Salaries	0.00	1,458.00	-1,458.00	0.0%	2,464.00
7108.11 · Prado Basin - WM Staff Salaries	3,587.65	4,919.00	-1,331.35	72.94%	8,305.00
7201 · Comp Recharge - WM Staff Salaries	30,559.69	26,214.00	4,345.69	116.58%	44,259.00
7301 · PE3&5 - WM Staff Salaries	0,00	8,820.00	-8,820.00	0.0%	14,892.00
7401 · PE4 - WM Staff Salaries	129.67	5,356.00	-5,226.33	2.42%	9,042.00
7501.1 · PE 6&7 - WM Staff Salaries (Plume)	0.00	3,993.00	-3,993.00	0.0%	6,743.00
7501 · PE6&7 - WM Staff Salaries	0.00	2,597.00	-2,597.00	0.0%	4,383.00
7601 · PE8&9 - WM Staff Salaries	0.00	7,244.00	-7,244.00	0.0%	12,231.00
Subtotal WM Staff Costs	779,045.75	822,775.00	-43,729.25	94.69%	1,389,422.00
60185 · Vacation	38,201.39	42,279.00	-4,077.61	90.36%	72,479.00
60186 · Sick Leave	6,997.06	27,070.00	-20,072.94	25.85%	46,405.00
60187 · Holidays	35,269.88	38,671.00	-3,401.12	91.21%	46,405.00
Subtotal WM Paid Leaves	80,468.33	108,020.00	-27,551.67	74.49%	165,289.00
Total WM Salary Costs	859,514.08	930,795.00	-71,280.92	92.34%	1,554,711.00

Budget vs. Actual Report for the Period Page 4 of 14

LEGAL SERVICES
BROWNSTEIN HYATT FARBER SCHRECK EXPENSES

### CURRENT MONTH - JANUARY 2016

As of January 31, 2016, 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 \$198,502 or 34.9% above the (YTD) budgeted amount of \$568,191. 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 2015/16. The "Approved" budget amount was adopted for the amount of \$933,815. The total budget was developed by multiplying the number of hours that would be required to complete the specific tasks by the hourly rate.

### WATERMASTER ADMINISTRATIVE LEGAL SERVICES:

Overall, the Watermaster Administrative Legal Services expense (6070's), as of January 31, 2016, was \$20,522 or 15.8% above the budgeted amount of \$130,019. 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 \$14,543 or 60.9%; Annotated Judgment (6072) under budget by \$23,420 or 100.0%; Interagency Issues (6074) under budget by \$17,850 or 100.0%; and the Party Status Maintenance (6077) under budget by \$16,282 or 97.3%. The specific items within the Administrative Legal Services expenses (6070's) which were over budget were the expenses for Personnel Matters (6073) over budget by \$7,965 or 29.0%; Miscellaneous (6078) over budget by \$81,571 or 395.6%: and CCG Motion (6078.12) over budget by \$3,080 or 100.0%.

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 March 10, 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.

### 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, 8375, 8475 and 8575). Overall, this category of legal expenses as of January 31, 2016 was \$52,285 or 41.0% below the budgeted amount of \$127,614. 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 2015, 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 above the budget for the month. As of January 31, 2016 the category of OBMP legal expenses were \$230,265 or 74.1% above the budgeted amount of \$310,558. The majority of expenses within this OBMP category were under budget (Y-T-D), however, the BHFS Safe Yield Redetermination and Reset legal expenses (6907.42) continue to increase and exceed the monthly budget. As of January 31, 2016, the Safe Yield Redetermination and Reset legal expenses were \$419,445 or 406.0% above the budgeted amount of \$103,300. It should be noted that the 12-month annual legal budget for the Safe Yield Redetermination and Reset category was approved at an amount of \$103,300 and anticipated to be allocated within the first six months of the FY 2015/16 (July 2015 - December 2015). The approved BHFS legal budget anticipated 230 labor hours for consolidated legal staff time with regards to the Safe Yield Redetermination and Reset effort. The Mid-Year Review presentation during the February 2016 meetings discussed the anticipated over budget of the Safe Yield Redetermination and Reset category. The presentation suggested that in the next few months a Budget Amendment would be proposed to add additional budget to this category and the funding would come from the FY 2015/16 OBMP Budget Reserves. The OBMP Budget Reserve amount is calculated at 15% of the OBMP Approved Budget which is \$715,363 (\$4,769,087 X 15% = \$715,363) for FY 2015/16.

The table listed below summarizes the Brownstein Hyatt Farber Schreck (BHFS) expenses as of January 31, 2016 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 '15 - Jan '16 Actual	Jul '15 - Jan '16 Budget	\$ Over Budget	% of Budget	FY 2015/16 Annual Budget
6070 · Watermaster Legal Services					
6071 · BHFS Legal - Court Coordination	9,345.36	23,888.00	-14,542.64	39.12%	40,950.00
6072 · BHFS Legal - Annotated Judgment	0.00	23,420.00	-23,420.00	0.0%	40,150.00
6073 · BHFS Legal - Personnel Matters	35,465.21	27,500.00	7,965.21	128.96%	80,700.00
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	459.00	16,741.00	-16,282.00	2.74%	28,700.00
6078 · BHFS Legal - Miscellaneous (Note 1)	102,191.35	20,620.00	81,571.35	495.59%	35,350.00
6078.12 · BHFS Legal - CCG Motion	3,079.82	0.00	3,079.82	100.0%	0.00
Total 6070 · Watermaster Legal Services	150,540.74	130,019.00	20,521.74	115.78%	256,450.00
6275 · BHFS Legal - Advisory Committee	9,969,74	11,900.00	-1.930.26	83.78%	20,400.00
6375 · BHFS Legal - Board Meeting	36,303.51	62,164.00	-25,860.49	58,4%	106,565.00
8375 · BHFS Legal - Appropriative Pool	9,934.09	17,850.00	-7,915.91	55.65%	30,600.00
8475 · BHFS Legal - Agricultural Pool	9,311.87	17,850.00	-8,538.13	52.17%	30,600.00
8575 · BHFS Legal - Non-Ag Pool	9,809.99	17,850.00	-8,040.01	54.96%	30,600.00
Total BHFS Legal Services	75,329.20	127,614.00	-52,284.80	59.03%	218,765.00
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	14,291,66	-14,291.66	0.0%	24,500.00
6907.33 · Chino Airport Plume	0.00	14,291.66	-14,291.66	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	28,525.00	-28,525.00	0.0%	48,900.00
6907.34 · Santa Ana River Water Rights	869.85	14,758,34	-13.888.49	5.89%	25,300.00
6907.36 · Santa Ana River Habitat	964.80	11,491.66	-10,526.86	8.4%	19,700.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	8,370,84	-8,370,84	0.0%	14,350.00
6907.39 · Recharge Master Plan	6,634,80	39,725,00	-33,090.20	16.7%	68,100.00
6907.40 · Storage Agreements	535.50	50,225.00	-49,689.50	1.07%	86,100.00
6907.41 · Prado Basin Habitat Sustainability	5,704.65	8,370.84	-2,666.19	68.15%	14,350.00
6907.42 · Safe Yield Recalculation	522,745.04	103,300.00	419,445.04	506.05%	103,300.00
6907.44 · SGMA Compliance	3,368.70	0.00	3,368.70	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0,00	17,208.34	-17,208.34	0.0%	29,500.00
Total 6907 · WM Legal Counsel	540,823.34	310,558.34	230,265.00	174.15%	458,600.00
Total Brownstein, Hyatt, Farber, Schreck Costs	766,693.28	568,191.34	198,501.94	134.94%	933,815.00

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, 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) Land Subsidence Committee reports/meetings; (9) Review process and criteria for re-appointment of the Watermaster 9 member Board; (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; and (13) Miscellaneous legal research on current and pending issues.

### OBMP ENGINEERING SERVICES AND LEGAL COSTS

### CURRENT MONTH - JANUARY 2016

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 month period ending January 31, 2016, the actual expenses of \$1,088,071 were above the budgeted amount of \$887,940 by \$200,131 or 22.5%. For a detailed discussion, the following is provided.

For January 31, 2016, the accounts 6901-6903 (Optimum Basin Mgmt Program) section was above the Year-To-Date (YTD) budget by \$4,874 or 5.6%. Watermaster utilizes an in-house database time and attendance system to record and document staff's actual hours worked and also allocates those hours to a specific project or activity. Watermaster staff time could be charged to Administrative, OBMP, or Implementation Project categories. Recently, Watermaster staff spent more time on specific OBMP

related areas and less time on administrative 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 \$5,215 or 7.1%. The remaining expense was the Santa Ana Watershed Project Authority (SAWPA) FY 2015/16 Basin Monitoring Program Task Force Contribution which was budgeted at \$12,500 but actual expenses were billed at \$12,159 which was below the budget by \$341 or 2.7% as of January 31, 2016.

For January 31, 2016, the accounts 6906 (Optimum Basin Mgmt Program Engineering Services) section was below the Year-To-Date (YTD) budget by \$30,074 or 6.2%. For FY 2015/16, the OBMP-Safe Yield Redetermination and Reset expenses (6906.73) did not have a budget amount assigned. For the month of January 2016, there were expenses totaling \$12,292 charged to the OBMP-Safe Yield Redetermination and Reset expenses. As of the Year-To-Date (YTD), this account was over budget by \$91,685 or 100.0%. The OBMP-Watermaster Model Update and the Material Physical Injury Request expenses had a budget provided for the month, but there was a small amount of activity and Engineering expenses recorded for this period. These two expenses, along with several other engineering related line items within the (6906's) assisted in reducing the overall budget variance and is a large factor as to why this expense category was under budget for the month.

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 \$422,814 while some other line item activities were below the budget by \$192,549. Above the budget line items were the Safe Yield Redetermination and Reset of \$419,445; and the SGMA Compliance of \$3,369. Please note the SGMA Compliance is a new GL account created in January 2016 to capture these costs. The individual legal projects/activities that were below budget for the Year-To-Date (YTD) period were the Archibald South Plume of \$14,292; the Chino Airport Plume of \$14,292; the Desalter/Hydraulic Control of \$28,525; the Santa Ana River Water Rights of \$13,888; the Santa Ana River Habitat of \$10,527; the Regional Water Quality Control Board of \$8,371; the Recharge Master Plan of \$33,090; Storage Agreements of \$49,690; the Prado Basin Habitat Sustainability of \$2,666; and the WM Unanticipated of \$17,208. For the seven months ended January 31, 2016, the overall cumulative (YTD) budget was \$310,558 and the actual (BHFS) legal expenses totaled \$540,823 which resulted in an over budget variance of \$230,265 or 74.1%.

As mentioned in the Brownstein Hyatt Farber Schreck section, the annual legal budget for the Safe Yield Redetermination and Reset was approved at an amount of \$103,300. The approved BHFS legal budget anticipated 230 labor hours for consolidated legal staff time with regards to the Safe Yield Redetermination and Reset effort. The budget assumed these expenses would be recorded during the period of July 2015 through December 2015. The Mid-Year Review presentation during the February 2016 meetings discussed the anticipated over budget of the Safe Yield Redetermination and Reset category. The presentation suggested that in the next few months a Budget Amendment would be proposed to add additional budget to this category and the funding would come from the FY 2015/16 OBMP Budget Reserves. The OBMP Budget Reserve amount is calculated at 15% of the OBMP Approved Budget which is \$715,363 (\$4,769,087 X 15% = \$715,363) for FY 2015/16.

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, 2016 this category of expenses was \$4,934 or 62.7% below the budgeted amount of \$7,875.

The Integrated Resource Plan expenses (6910's) is billed directly to IEUA on the following month once the payment has been issued to Wildermuth Environmental, Inc. per the contract. As of January 31, 2016 this category of expenses was fully invoiced to IEUA in the amount of \$50,738.

Overall, the Optimum Basin Management Program (OBMP) category was \$1,088,071 compared to a (YTD) budget of \$887,940 for an over budget of \$200,131 or 22.5% as of January 31, 2016.

The table listed below summarizes the Optimum Basin Management Program (OBMP) expenses as of January 31, 2016 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 '15 - Jan '16	Jul '15 - Jan '16			FY 2015/16
	Actual	Budget	\$ Over Budget	% of Budget	Annual Budget
6900 · Optimum Basin Mgmt Plan					
6901 · WM Staff Salaries	79,080.79	73,866.00	5,214.79	107.06%	124,709.00
6903 · OBMP SAWPA Group	12,159.00	12,500.00	-341.00	97.27%	12,500.00
Total 6901-6903 · OBMP WM Staff/SAWPA	91,239.79	86,366.00	4,873.79	105.64%	137,209.00
6906 · OBMP Engineering Services					
6906.1 · OBMP - Watermaster Model Update	172,007.80	217,264.44	-45,256.64	79.17%	279,340.00
6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.22 · Water Rights Compliance Reporting	15,593.75	14,235.65	1,358.10	109.54%	24,404.00
6906.23 · SGMA Reporting Requirements	3,836.25	10,145.35	-6,309.10	37.81%	17,392.00
6906.31 · OBMP - Pool, Advisory, Board Wtgs.	42,184.03	51,134.41	-8,950.38	82.5%	87,659.00
6906.32 · OBMP - Other General Meetings	12,257.62	19,178.25	-6,920.63	63.91%	32,877.00
6906.33 · OBMP - App. Pool Issue Resolution	0.00	32,062.34	-32,062.34	0.0%	54,964.00
6906.71 · OBMP - Data Requests - CBWM Staff	84,316.53	37,370.66	46,945.87	225.62%	64,064.00
6906.72 · OBMP - Data Requests - Non CBWM	7,706.75	22,288.00	-14,581.25	34.58%	38,208.00
6906.73 · OBMP - Safe Yield Recalculation	91,684.60	0.00	91,684.60	100,0%	0.00
6906.74 · OBMP - Mat'l Phy. Injury Requests	1,501.25	64,341.66	-62,840.41	2.33%	110,300.00
6906 · OBMP Engineering Services - Other	21,977.75	15,120.00	6,857.75	145.36%	25,920.00
Total 6906 · OBMP Engineering Services	453,066.33	483,140.76	-30,074.43	93.78%	735,128.00
6907 · OBMP Legal Fees					
6907.3 · WM Legal Counsel					
6907.31 · Archibald South Plume	0.00	14,291.66	-14,291.66	0.0%	24,500.00
6907.32 · Chino Airport Plume	0.00	14,291.66	-14,291.66	0.0%	24,500.00
6907.33 · Desalter/Hydraulic Control	0.00	28,525.00	-28,525.00	0.0%	48,900.00
6907.34 · Santa Ana River Water Rights	869.85	14,758.34	-13,888.49	5.89%	25,300.00
6907.36 · Santa Ana River Habitat	964.80	11,491.66	-10,526.86	8.4%	19,700.00
6907.38 · Reg. Water Quality Cntrl Board	0.00	8,370.84	-8,370.84	0.0%	14,350.00
6907.39 · Recharge Master Plan	6,634.80	39,725.00	-33,090.20	16.7%	68,100.00
6907.40 · Storage Agreements	535.50	50,225.00	-49,689.50	1.07%	86,100.00
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6907.42 · Safe Yield Recalculation	522,745.04	103,300.00	419,445.04	506.05%	103,300.00
6907.44 · SGMA Compliance	3,368.70	0.00	3,368.70	100.0%	0.00
6907.90 · WM Legal Counsel - Unanticipated	0.00	17,208,34	-17,208.34	0.0%	29,500.00
Total 6907 · WM Legal Counsel	540,823.34	310,558.34	230,265.00	174.15%	458,600.00
Total 6907 · OBMP Legal Fees	540,823.34	310,558.34	230,265.00	174.15%	458,600.00
6909 · OBMP Other Expenses					
6909.1 · OBMP Meetings	1,626.22	875.00	751.22	185.85%	1,500.00
6909.3 · Other OBMP Expenses	1,315.00	1,166.66	148.34	112.72%	2,000.00
6909.6 · OBMP Expenses - Miscellaneous	0.00	5,833.34	-5,833.34	0.0%	10,000.00
Total 6909 · OBMP Other Expenses	2,941.22	7,875.00	-4,933.78	37.35%	13,500.00
6910 · Integrated Resource Plan					
6910.1 · IRP Groundwater Modeling - WEI	50,737.75	0.00	50,737.75	100.0%	0.00
6910.15 · IRP Groundwater Modeling - IEUA	-50,737.75	0.00	-50,737.75	100.0%	0.00
Total 6910 · Integrated Resource Plan	0.00	0.00	0.00	0,0%	0.00
Total 6900 · Optimum Basin Mgmt Plan	1,088,070.68	887,940.10	200,130.58	122.54%	1,344,437.00

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

### CURRENT MONTH - JANUARY 2016

As of January 31, 2016, the total (YTD) Engineering Services expenses were \$547,196 or 31.7% below the (YTD) budget amount of \$1,724,885. The OBMP Implementation Projects (consolidated accounts 7100's – 7700's) were all (Under) budget as of January 31, 2016.

Budget vs. Actual Report for the Period Page 9 of 14

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 Second ECAC report was provided as part of the FY 2015/16 Mid-Year Review during the February 2016 meetings. The ECAC report for the period ending December 31, 2015 showed a projected under budget of \$19,870. Watermaster does not plan to present any Budget Transfers or Budget Amendments at this time.

### PREVIOUSLY REPORTED ACTIONS (Descending Order)

### November 2015:

The first ECAC report for the current fiscal year has been provided for the period ending September 30, 2015 and showed a projected over budget of \$30,411. The second ECAC report is scheduled to be issued in mid-February 2016 for the period July 2015 through December 2015.

### July 2015:

The breakdown of the total FY 2015/16 Task Order amount of \$2,595,942 includes direct labor costs for Wildermuth Environmental, Inc. (80%) along with other direct charges such as equipment rental, laboratory fees, travel costs, reproduction costs, and outside professional services (20%).

The approved "Original" Engineering Services budget of \$2,595,942 was increased by "Carry Over" funding in the amount of \$136,696 to the "Amended" amount of \$2,732,638 for FY 2015/16 as provided in the Engineering Services Task Order. The "Carry Over" amount of \$136,696 from FY 2014/15 to the FY 2015/16 budget are expenses related to the ongoing long-term pumping test (\$9,813 for account 7107.2 and \$34,770 for account 7107.6), the PBHSP monitoring program (\$12,127 for account 7108.31 and \$35,986 for account 7108.41), the hydraulic control monitoring program Adaptive Management Plan (\$33,000 for account 7107.8), and expenses related to the upload of GeoTracker and EnviroStor data (\$11,000 for account 7502). 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 2015/16 timeframe.

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, 2016. 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:

Retual   Budget   S Over Budget   Minual Budget   6906 · OBMP Engineering Services - Other   21,977.75   15,120.00   6,857.75   146.38%   25,920.00   6906.21 · State of the Basin Report   0.00   0.00   0.00   0.00   0.00   0.00   0.00   6906.22 · Water Rights Compliance Reporting   15,593.75   14,235.65   1,358.10   109.54%   24,404.00   6906.23 · SGMA Reporting Requirements   3,838.25   10,145.35   -6,309.10   37,81%   17,392.00   6906.23 · OBMP - Pool, Advisory, Board Migs.   42,184.03   61,134.41   -8,960.38   82.5%   87,659.00   6906.33 · OBMP - Pool, Advisory, Board Migs.   42,184.03   61,134.41   -8,960.38   82.5%   87,659.00   6906.32 · OBMP - Other General Meetings   12,257.62   19,178.25   -8,920.63   63.91%   32,877.00   6906.33 · OBMP - App. Pool Issue Resolution   0.00   32,082.34   -82,062.34   0.0%   54,964.00   6906.74 · OBMP - Data Requests - CRUM Staff   34,316.53   37,370.66   46,945.67   22,288.00   -14,681.25   34,58%   38,208.00   6906.73 · OBMP - Mart Physical Injury Requests   1,501.25   64,341.66   -62,840.41   100.0%   0.00   6906.74 · OBMP - Data Requests   7,501.25   64,341.66   -62,840.41   100.0%   100.0%   1703.3 · Gridwtr Qual-Lab Svcs   48,037.00   22,889.33   -62,840.41   102.59%   120,516.00   7103.3 · Gridwtr Qual-Engineering   72,119.84   70,301.00   1,818.49   102.59%   120,516.00   7104.3 · Gridwtr Level-Contracted Services   0.00   5,833.34   -5,833.34   101.83%   176,430.00   7104.3 · Gridwtr Level-Capital Equipment   0.00   5,260.00   -5,260.00   0.0%   7,000.00   7107.2 · Grid Level-Capital Equipment   0.00   3,266.66   3,266.66   0.0%   5,600.00   7107.3 · Grid Level-Capital Equipment   0.00   3,266.66   3,266.66   0.0%   5,600.00   7107.3 · Grid Level-Capital Equipment   0.00   3,266.66   3,266.66   0.0%   5,600.00   7107.3 · Grid Level-Capital Equipment   0.00   3,266.66   3,266.66   0.0%   5,600.00   7107.3 · Grid Level-Capital Equipment   0.00   3,266.66   3,266.66   0.0%   5,600.00   7108.4 · Hydraulic Control-PBHSP   3,769.00   0.00   0.00   0.00   0.00   0.00		Jul '15 - Jan '16	Jul '15 - Jan '16			FY 2015/16
6906 · OBMP Engineering Services - Other				\$ Over Budget	% of Budget	
6906.21 · State of the Basin Report         0.00         0.00         0.00         0.00         0.00         0.00         6908.22 · Water Rights Compliance Reporting         15,593.75         14,235.65         1,358.10         109.54%         24,404.00         6906.23 · SGMA Reporting Requirements         3,836.25         10,145.35         6,309.10         37,81%         17,392.00         6906.31 · OBMP - Pool, Advisory, Board Mtgs.         42,184.03         51,134.41         -8,950.38         82.5%         87,659.00         6906.31 · OBMP - Pool, Pool Issue Resolution         0.00         30,262.34         -3,262.34         -3,202.34         -0,008         6906.71 · OBMP - Pool Issue Resolution         0.00         30,262.34         -3,262.34         -3,262.34         -3,262.34         -3,262.34         -3,262.34         -3,262.34         -3,262.34         -3,262.24         -0,00         6906.71 · OBMP - Data Requests - Non CBWM         7,709.75         22,288.00         -14,581.25         34,58%         38,208.00         6906.73 · OBMP - Safe Yield Recalculation         91,884.60         0.00         -14,581.25         34,58%         38,208.00         6906.73 · OBMP - Safe Yield Recalculation         91,884.60         0.00         14,581.25         34,58%         38,208.00         6906.74 · OBMP - Mat'l Physical Injury Requests         1,501.25         64,341.66         -62,840.41         2,33%         1	6906 · OBMP Engineering Services - Other	21,977.75				P
6906.22   Water Rights Compliance Reporting   15,593.75   14,235.65   1,358.10   109.54%   24,404.00   6906.23   SGMM Reporting Requirements   3,386.25   10,145.35   -6,309.10   37.81%   17,392.00   6906.32   OBMP - Other General Meetings   12,257.62   19,178.25   -6,920.63   63.91%   32,877.00   6906.32   OBMP - Other General Meetings   12,257.62   19,178.25   -6,920.63   63.91%   32,877.00   6906.33   OBMP - App. Pool Issue Resolution   0.00   32,062.34   -32,062.34   0.0%   54,964.00   6906.71   OBMP - Data Requests - CBWM Staff   84,316.53   373.066   46,965.87   225.62%   64,064.00   6906.72   OBMP - Data Requests - Non CBWM   7,706.75   22,288.00   -14,581.25   34,58%   38,208.00   6906.73   OBMP - Safe Yield Recalculation   91,684.60   0.00   91,684.60   100.0%   0.00   6906.74   OBMP - Matt Physical Injury Requests   1,501.25   64,341.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.66   63,441.6	6906.1 · OBMP - Watermaster Model Update	172,007.80	217,264.44	-45,256.64	79.17%	279,340.00
6906.23 · SGMA Reporting Requirements   3,836.25   10,145.35   -6,309.10   37,81%   17,392.00   6906.31 · OBMP - Pool, Advisory, Board Mitgs.   42,184.03   51,134.41   -8,950.38   82,5%   87,659.00   6906.32 · OBMP - App. Pool Issue Resolution   0.00   32,062.34   -32,062.34   0.0%   54,984.00   6906.71 · OBMP - Data Requests - CBWM   Staff   84,316.53   37,370.66   46,945.87   225,62%   64,064.00   6906.72 · OBMP - Data Requests - Nor CBWM   7,706.75   22,288.00   -14,581.25   34,58%   38,208.00   6906.73 · OBMP - Safe Yield Recalculation   91,684.60   0.00   91,684.60   100.0%   0.00   6906.74 · OBMP - Mat'l Physical Injury Requests   1,501.25   64,341.66   -62,840.41   2,33%   110,300.00   7103.3 · Grdwtr Qual-Engineering   72,119.84   70,301.00   1,818.84   102,59%   120,516.00   7104.3 · Grdwtr Level-Engineering   104,798.79   102,917.50   1,818.29   101.83%   176,430.00   7104.8 · Grdwtr Level-Engineering   29,683.84   36,957.84   -7,274.00   80,32%   56,347.00   7107.2 · Grd Level-Capital Equipment   0.00   5,250.00   -5,250.00   0.0%   7,000.00   7107.2 · Grd Level-Contract Service   1,799.50   102,605.25   100,805.75   1,75%   80,33%   43,698.00   67,000.00   7107.8 · Grd Level-Contract Service   1,799.50   102,605.25   100,805.75   1,75%   151,059.00   7107.8 · Grd Level-Contract Service   1,799.50   102,605.25   100,805.75   1,75%   151,059.00   7107.8 · Grd Level-Contract Service   1,799.50   102,605.25   100,805.75   1,75%   151,059.00   7107.8 · Grd Level-Contract Service   1,799.50   102,605.25   100,805.75   1,75%   151,059.00   7108.3 · Hydraulic Control-Adaptive Mgmt Plan   49,016.97   43,176.00   5,840.97   113.53%   43,176.00   7108.4 · Hydraulic Control-Adaptive Mgmt Plan   49,016.97   43,176.00   5,840.97   113.53%   43,176.00   7108.6 · Hydraulic Control-Dutside Professionals   0.00   52,500.00   -52,500.00   0.0%   90,000.00   7108.5 · Hydraulic Control-Dutside Professionals   0.00   52,500.00   52,500.00   0.0%   90,000.00   7108.5 · Hydraulic Control-Pada Basin Habitat   4,28.00   0.	6906.21 · State of the Basin Report	0.00	0.00	0.00	0.0%	0.00
6906.31 · OBMP - Pool, Advisory, Board Mtgs.   42,184.03   51,134.41   -8,950.38   82.5%   87,659.00   6906.32 · OBMP - Other General Meetings   12,257.62   19,178.25   -6,920.63   63.91%   32,877.00   6906.33 · OBMP - App, Pool Issue Resolution   0,00   32,062.34   0,0%   54,984.00   6906.71 · OBMP - Data Requests - CBWM Staff   84,316.53   37,370.66   46,945.87   225.62%   64,064.00   6906.72 · OBMP - Data Requests - Non CBWM   7,706.75   22,280.00   -14,581.25   34,58%   38,208.00   6906.73 · OBMP - Safe Yield Reaculation   91,684.60   0.00   -14,581.25   34,58%   38,208.00   6906.73 · OBMP - Mat'l Physical Injury Requests   1,501.25   64,341.66   -62,840.41   2.33%   110,300.00   7103.5   Grdwtr Qual-Engineering   72,119.84   70,501.00   1,818.84   102.59%   120,516.00   7103.5   Grdwtr Qual-Engineering   74,719.84   70,501.00   1,818.84   102.59%   120,516.00   7104.3   Grdwtr Level-Contracted Services   0.00   5,833.34   5,833.34   0.0%   10,000.00   7104.9   Grdwtr Level-Capital Equipment   0.00   5,250.00   1,881.29   101.83%   176,430.00   7107.2   Grd Level-Engineering   29,683.84   36,957.84   -7,274.00   80.32%   56,347.00   7107.5   Grd Level-Capital Equipment   0.00   63,750.00   -34,750.00   45,49%   85,000.00   7107.5   Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   5,600.00   7107.8   Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   5,600.00   7108.3   Hydraulic Control-PBHSP   82,148.91   80,388.09   1,760.82   102.19%   129,146.00   7108.3   Hydraulic Control-Babytie Mgmt Plan   49,016.97   43,176.00   5,800.95   10,166.59   30,51%   25,081.00   7108.4   Hydraulic Control-Datastive Mgmt Plan   49,016.97   43,176.00   5,250.00   0.0%   90,000.00   7108.5   Hydraulic Control-Datastive Mgmt Plan   49,016.97   43,176.00   5,250.00   0.0%   90,000.00   7108.5   Hydraulic Control-PBHSP   22,300.00   43,633.50   -2,0703.50   52.556%   49,096.00   7108.5   Hydraulic Control-PBHSP   22,300.00   43,633.50   -2,0703.50   52.556%   49,096.00   7108.5   Hydraulic Co	6906.22 · Water Rights Compliance Reporting	15,593.75	14,235.65	1,358.10	109.54%	24,404.00
6906.32 · OBMP - Other General Meetings   12,257.62   19,178.25   -6,920.63   63.91%   32,877.00   6906.33 · OBMP - App. Pool Issue Resolution   0.00   32,062.34   -32,062.34   0.0%   54,964.00   6906.71 · OBMP - Data Requests - CBWM Staff   84,316.53   37,370.68   46,946.587   225.62%   64,064.00   6906.72 · OBMP - Data Requests - Non CBWM   7,706.75   22,288.00   -14,581.25   34.58%   38,208.00   6906.73 · OBMP - Safe Yield Recalculation   91,684.60   0.00   91,684.60   100.0%   0.00   6906.74 · OBMP - Mat'l Physical Injury Requests   1,501.25   64,341.66   -62,840.41   2.33%   110,300.00   7103.3 · Grdwtr Qual-Engineering   72,119.84   70,301.00   1,818.84   102.59%   120,516.00   7103.5 · Grdwtr Qual-Engineering   104,798.79   102,917.50   1,818.29   101.83%   176,430.00   7104.3 · Grdwtr Level-Engineering   104,798.79   102,917.50   1,881.29   101.83%   176,430.00   7104.9 · Grdwtr Level-Capital Equipment   0.00   5,833.34   -5,833.34   0.0%   10,000.00   7107.2 · Grd Level-Engineering   29,683.84   36,957.84   -7,274.00   80.32%   56,347.00   7107.3 · Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   45,49%   85,000.00   7107.6 · Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   5,600.00   7107.8 · Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   5,600.00   7107.8 · Grd Level-Capital Equipment   0.00   3,266.66   -3,266.66   0.0%   5,600.00   7108.3 · Hydraulic Control-PBHSP   82,148.91   80,388.09   1,760.82   102.19%   129,146.00   7108.3 · Hydraulic Control-Datyte Mgmt Plan   49,016.97   43,176.00   5,640.97   113,53%   43,176.00   7108.4 · Hydraulic Control-PathsPP   22,930.00   43,633.50   -20,705.50   52,55%   49,096.00   7108.6 · Hydraulic Control-PathsPP   22,930.00   43,633.50   -20,705.50   52,55%   49,096.00   7108.7 · Hydraulic Control-PathsPP   22,930.00   43,633.50   -20,705.50   52,55%   49,096.00   7108.6 · Hydraulic Control-PathsPP   22,930.00   43,633.50   -20,705.50   52,55%   49,096.00   7108.6 · Hydraulic Control-PathsPP   22,930.0	6906.23 · SGMA Reporting Requirements	3,836,25	10,145.35	-6,309.10	37.81%	17,392.00
6906.33 · OBMP - App. Pool Issue Resolution         0.00         32,082.34         -32,082.34         0.0%         54,984.00           6906.71 · OBMP - Data Requests - CBVM Staff         84,316.53         37,370.66         46,945.87         225.62%         64,064.00           6906.72 · OBMP - Data Requests - Non CBWM         7,706.75         22,288.00         -14,581.25         34.58%         38,208.00           6906.73 · OBMP - Safe Yield Recalculation         91,684.60         0.00         91,684.60         100.0%         0.00           6906.74 · OBMP - Mat'l Physical Injury Requests         1,501.25         64,341.68         -62,840.41         2.33%         110,300.00           7103.5 · Grdwtr Qual-Engineering         72,118.84         70,301.00         1,1818.84         102.59%         120,516.00           7103.5 · Grdwtr Qual-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.3 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7107.8 · Grd Level-Copital Equipment         0.00         5,250.00         0.0%         7,000.00 <t< td=""><td>6906.31 · OBMP - Pool, Advisory, Board Mtgs.</td><td>42,184.03</td><td>51,134.41</td><td>-8,950.38</td><td>82.5%</td><td>87,659.00</td></t<>	6906.31 · OBMP - Pool, Advisory, Board Mtgs.	42,184.03	51,134.41	-8,950.38	82.5%	87,659.00
6906.71 · OBMP - Data Requests - CBWM Staff 6906.72 · OBMMP - Data Requests - Non CBWM 7,706.75 22,288.00 -14,581.25 34,58% 38,208.00 6906.73 · OBMP - Safe Yield Recalculation 91,684.60 0,00 91,684.60 100.0% 100.0% 6906.74 · OBMP - Mat'l Physical Injury Requests 1,501.25 64,341.66 -62,840.41 2,33% 110,300.00 7103.3 · Grdwtr Qual-Engineering 72,119.84 70,301.00 1,818.84 102,59% 120,516.00 7103.5 · Grdwtr Qual-Lab Svcs 48,037.00 22,686.59 25,167.41 210.05% 39,205.00 7104.8 · Grdwtr Level-Engineering 104,798.79 102,917.50 1,881.29 101.83% 176,430.00 7104.9 · Grdwtr Level-Capital Equipment 0,00 5,280.00 7104.9 · Grdwtr Level-Engineering 29,683.84 36,957.84 -7,274.00 80,32% 56,347.00 7107.3 · Grd Level-SAR Imagery 29,000.00 63,750.00 7107.6 · Grd Level-Contract Svcs 1,799.50 102,605.25 100,805.75 1.75% 151,059.00 7107.8 · Grd Level-Contract Svcs 1,799.50 102,605.25 100,805.75 1.75% 151,059.00 7108.31 · Hydraulic Control-Engineering 12,973.70 29,148.00 14,617.43 44,517.40 44,518.00 7108.32 · Hydraulic Control-Adaptive Mgmt Plan 49,016.97 4108.41 · Hydraulic Control-Adaptive Mgmt Plan 7108.42 · Hydraulic Control-Dutside Professionals 0,00 7108.6 · Hydraulic Control-Dutside Professionals 0,00 7108.7 · Hydraulic Control-Dutside Professionals 0,00 7108.6 · Hydraulic Control-Dutside Professionals 0,00 7108.7 · Hydraulic Control-Dutside Professionals 0,00 7109.3 · Recharge & Well - Engineering 3,709.75 11,569.0 720.2 · Comp Recharge-Engineering 8,347.50 4,480.0 7402 · PE68-Engineering 94,583.60 7403 · PE4-Engineering 94,583.60 7406 · PE68-Engineering 94,583.60 7406 · PE68-Engineering 94,583.60 7406 · PE68-Engineering 94,583.60 7408 · PE68-Engineering 94,58	6906.32 · OBMP - Other General Meetings	12,257.62	19,178.25	-6,920.63	63.91%	32,877.00
6906.72 · OBMP - Data Requests - Non CBWM         7,706.75         22,288.00         -14,581.25         34,58%         38,208.00           6906.73 · OBMP - Safe Yield Recalculation         91,684.60         0.00         91,684.60         100.0%         0.00           7003.7 · OBMP - Mat'l Physical Injury Requests         1,501.25         64,341.66         -62,840.41         2.33%         110,300.00           7103.3 · Grdwtr Qual-Lab Svcs         48,037.00         22,869.59         25,167.41         210.05%         39,205.00           7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7107.2 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.3 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1,75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00	6906.33 · OBMP - App. Pool Issue Resolution	0.00	32,062.34	-32,062.34	0.0%	54,964.00
6906.73 · OBMP - Safe Yield Recalculation         91,884.60         0.00         91,884.60         100.0%         0.00           6906.74 · OBMP - Mat'l Physical Injury Requests         1,501.25         64,341.66         -62,840.41         2.33%         110,300.00           7103.3 · Grdwtr Qual-Lengineering         72,119.84         70,301.00         1,818.84         102.59%         120,516.00           7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7107.9 · Grd Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.2 · Grd Level-SAR imagery         29,000.00         63,750.00         -34,750.00         45,49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1,75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         0.0%         5,600.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         0.0%         5,600.00           7107.8 · Grd Level-Capital Equipment         0.00 </td <td>6906.71 · OBMP - Data Requests - CBWM Staff</td> <td>84,316.53</td> <td>37,370.66</td> <td>46,945.87</td> <td>225.62%</td> <td>64,064.00</td>	6906.71 · OBMP - Data Requests - CBWM Staff	84,316.53	37,370.66	46,945.87	225.62%	64,064.00
6906.74 · OBMP - Mat'l Physical Injury Requests         1,501.25         64,341.66         -62,840.41         2.33%         110,300.00           7103.3 · Grdwtr Qual-Engineering         72,119.84         70,301.00         1,818.84         102.59%         120,516.00           7104.3 · Grdwtr Qual-Lab Svcs         48,037.00         22,869.59         25,167.41         210.05%         39,205.00           7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7107.9 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         66,347.00           7107.3 · Grd Level-SAR Imagery         29,000.00         3,750.00         -34,750.00         45.49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1,75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-BHSP         22,148.91         80,380.99         1,760.82         102,149%         129,146.00	6906.72 · OBMP - Data Requests - Non CBWM	7,706.75	22,288.00	-14,581.25	34.58%	38,208.00
7103.3 · Grdwtr Qual-Engineering         72,119.84         70,301.00         1,818.84         102.59%         120,516.00           7103.5 · Grdwtr Qual-Lab Svcs         48,037.00         22,869.59         25,167.41         210.05%         39,205.00           7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7104.9 · Grdwtr Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.2 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45.49%         85,000.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7	6906.73 · OBMP - Safe Yield Recalculation	91,684.60	0.00	91,684.60	100.0%	0.00
7103.5 · Grdwtr Qual-Lab Svcs         48,037.00         22,869.59         25,167.41         210.05%         39,205.00           7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7107.2 · Grd Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.3 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45,49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30.51%         25,081.00	6906.74 · OBMP - Mat'l Physical Injury Requests	1,501.25	64,341.66	-62,840.41	2.33%	110,300.00
7104.3 · Grdwtr Level-Engineering         104,798.79         102,917.50         1,881.29         101.83%         176,430.00           7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7104.9 · Grdwtr Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.2 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.3 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7107.8 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.4 · Hydraulic Control-Dadaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Outside Professionals         0.00         43,633.50         -20,703.50         52.55%         49,096.00	7103.3 · Grdwtr Qual-Engineering	72,119.84	70,301.00	1,818.84	102.59%	120,516.00
7104.8 · Grdwtr Level-Contracted Services         0.00         5,833.34         -5,833.34         0.0%         10,000.00           7104.9 · Grdwtr Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.2 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.3 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45,49%         85,000.00           7107.8 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44,51%         49,988.00           7108.3 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30,51%         25,081.00           7108.5 · Hydraulic Control-Dutside Professionals         0.00         52,500.00         52,500.00         0.0%         90,000.00	7103.5 · Grdwtr Qual-Lab Svcs	48,037.00	22,869.59	25,167.41	210.05%	39,205.00
7104.9 · Grdwtr Level-Capital Equipment         0.00         5,250.00         -5,250.00         0.0%         7,000.00           7107.2 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.3 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45,49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1,75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,988.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102,19%         129,146.00           7108.42 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113,53%         43,176.00           7108.44 · Hydraulic Control-DBHSP         22,930.00         43,633.50         -20,703.50         52,55%         49,996.00           7108.45 · Hydraulic Control-PBHSP         22,930.00         52,500.00         -52,500.00         0.0%         90,000.00	7104.3 · Grdwtr Level-Engineering	104,798.79	102,917.50	1,881.29	101.83%	176,430.00
7107.2 · Grd Level-Engineering         29,683.84         36,957.84         -7,274.00         80.32%         56,347.00           7107.3 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45.49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.4 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52.55%         49,096.00           7108.6 · Hydraulic Control-Pado Basin Habitat         4,428.00         0.00         4,428.00         0.00         4,428.00         100.0%         100.0%         19,867.00           7202.2 · Comp Recharge Engineering         3,709.75         11,589.09         -7,879.34	7104.8 · Grdwtr Level-Contracted Services	0.00	5,833.34	-5,833.34	0.0%	10,000.00
7107.3 · Grd Level-SAR Imagery         29,000.00         63,750.00         -34,750.00         45,49%         85,000.00           7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1.75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-BHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.42 · Hydraulic Control-Adaptive Wgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-DBHSP         22,930.00         43,633.50         -20,703.50         52.55%         49,096.00           7108.6 · Hydraulic Control-Outside Professionals         0.00         52,500.00         52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         10.0%         0.00           7202.2 · Comp Recharge-Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00 <t< td=""><td>7104.9 · Grdwtr Level-Capital Equipment</td><td>0.00</td><td>5,250.00</td><td>-5,250.00</td><td>0.0%</td><td>7,000.00</td></t<>	7104.9 · Grdwtr Level-Capital Equipment	0.00	5,250.00	-5,250.00	0.0%	7,000.00
7107.6 · Grd Level-Contract Svcs         1,799.50         102,605.25         -100,805.75         1,75%         151,059.00           7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52,55%         49,096.00           7108.6 · Hydraulic Control-Putade Basin Habitat         4,428.00         0.00         52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prade Basin Habitat         4,428.00         0.00         4,428.00         10.00         4,428.00         10.00         10.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66	7107.2 · Grd Level-Engineering	29,683.84	36,957.84	-7,274.00	80.32%	56,347.00
7107.8 · Grd Level-Capital Equipment         0.00         3,266.66         -3,266.66         0.0%         5,600.00           7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30,51%         25,081.00           7108.6 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52,55%         49,096.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%	7107.3 · Grd Level-SAR Imagery	29,000.00	63,750.00	-34,750.00	45.49%	85,000.00
7108.3 · Hydraulic Control-Engineering         12,973.70         29,148.00         -16,174.30         44.51%         49,968.00           7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30.51%         25,081.00           7108.4 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52,55%         49,096.00           7108.6 · Hydraulic Control-Pado Basin Habitat         4,428.00         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89% <td< td=""><td>7107.6 · Grd Level-Contract Svcs</td><td>1,799.50</td><td>102,605.25</td><td>-100,805.75</td><td>1.75%</td><td>151,059.00</td></td<>	7107.6 · Grd Level-Contract Svcs	1,799.50	102,605.25	-100,805.75	1.75%	151,059.00
7108.31 · Hydraulic Control-PBHSP         82,148.91         80,388.09         1,760.82         102.19%         129,146.00           7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30,51%         25,081.00           7108.4 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52,55%         49,096.00           7108.6 · Hydraulic Control-Pado Basin Habitat         4,428.00         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89%         84,708.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00	7107.8 · Grd Level-Capital Equipment	0.00	3,266.66	-3,266.66	0.0%	5,600.00
7108.32 · Hydraulic Control-Adaptive Mgmt Plan         49,016.97         43,176.00         5,840.97         113.53%         43,176.00           7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30.51%         25,081.00           7108.41 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52.55%         49,096.00           7108.6 · Hydraulic Control-Outside Professionals         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         100.0%         0.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,085.50         16.89%         84,708.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00	7108.3 · Hydraulic Control-Engineering	12,973.70	29,148.00	-16,174.30	44.51%	49,968.00
7108.4 · Hydraulic Control-Lab Svcs         4,464.00         14,630.59         -10,166.59         30.51%         25,081.00           7108.41 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52.55%         49,096.00           7108.6 · Hydraulic Control-Outside Professionals         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         100.0%         0.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,085.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00	7108.31 · Hydraulic Control-PBHSP	82,148.91	80,388.09	1,760.82	102.19%	129,146.00
7108.41 · Hydraulic Control-PBHSP         22,930.00         43,633.50         -20,703.50         52.55%         49,096.00           7108.6 · Hydraulic Control-Outside Professionals         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         100.0%         0.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,085.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8	7108.32 · Hydraulic Control-Adaptive Mgmt Plan	49,016.97	43,176.00	5,840.97	113.53%	43,176.00
7108.6 · Hydraulic Control-Outside Professionals         0.00         52,500.00         -52,500.00         0.0%         90,000.00           7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         100.0%         0.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,085.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8&9-Engineering         14,536.00         37,524.66         -22,988.66         38.74%         64,328.00	7108.4 · Hydraulic Control-Lab Svcs	4,464.00	14,630.59	-10,166.59	30.51%	25,081.00
7108.7 · Hydraulic Control-Prado Basin Habitat         4,428.00         0.00         4,428.00         100.0%         0.00           7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8&9-Engineering         14,536.00         37,524.66         -22,988.66         38.74%         64,328.00	7108.41 · Hydraulic Control-PBHSP	22,930.00	43,633.50	-20,703.50	52.55%	49,096.00
7109.3 · Recharge & Well - Engineering         3,709.75         11,589.09         -7,879.34         0.0%         19,867.00           7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8&9-Engineering         14,536.00         37,524.66         -22,988.66         38.74%         64,328.00	7108.6 · Hydraulic Control-Outside Professionals	0.00	52,500.00	-52,500.00	0.0%	90,000.00
7202.2 · Comp Recharge-Engineering Services         38,788.32         93,044.00         -54,255.68         41.69%         159,504.00           7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8&9-Engineering         14,536.00         37,524.66         -22,988.66         38.74%         64,328.00	7108.7 · Hydraulic Control-Prado Basin Habitat	4,428.00	0.00	4,428.00	100.0%	0.00
7303 · PE3&5-Engineering - Other         0.00         13,640.66         -13,640.66         0.0%         23,384.00           7402 · PE4-Engineering         8,347.50         49,413.00         -41,065.50         16.89%         84,708.00           7402.10 · PE4-MZ1 Pomona Project         168,456.66         295,315.41         -126,858.75         57.04%         506,255.00           7403 · PE4-Contract Svcs         4,800.00         11,666.66         -6,866.66         41.14%         20,000.00           7502 · PE6&7-Engineering         24,583.50         52,323.34         -27,739.84         46.98%         81,840.00           7602 · PE8&9-Engineering         14,536.00         37,524.66         -22,988.66         38.74%         64,328.00	7109.3 · Recharge & Well - Engineering	3,709.75	11,589.09	-7,879.34	0.0%	19,867.00
7402 · PE4-Engineering       8,347.50       49,413.00       -41,065.50       16.89%       84,708.00         7402.10 · PE4-MZ1 Pomona Project       168,456.66       295,315.41       -126,858.75       57.04%       506,255.00         7403 · PE4-Contract Svcs       4,800.00       11,666.66       -6,866.66       41.14%       20,000.00         7502 · PE6&7-Engineering       24,583.50       52,323.34       -27,739.84       46.98%       81,840.00         7602 · PE8&9-Engineering       14,536.00       37,524.66       -22,988.66       38.74%       64,328.00	7202.2 · Comp Recharge-Engineering Services	38,788.32	93,044.00	-54,255.68	41.69%	159,504.00
7402.10 · PE4-MZ1 Pomona Project       168,456.66       295,315.41       -126,858.75       57.04%       506,255.00         7403 · PE4-Contract Svcs       4,800.00       11,666.66       -6,866.66       41.14%       20,000.00         7502 · PE6&7-Engineering       24,583.50       52,323.34       -27,739.84       46.98%       81,840.00         7602 · PE8&9-Engineering       14,536.00       37,524.66       -22,988.66       38.74%       64,328.00	7303 · PE3&5-Engineering - Other		13,640.66	-13,640.66		23,384.00
7403 · PE4-Contract Svcs       4,800.00       11,666.66       -6,866.66       41.14%       20,000.00         7502 · PE6&7-Engineering       24,583.50       52,323.34       -27,739.84       46.98%       81,840.00         7602 · PE8&9-Engineering       14,536.00       37,524.66       -22,988.66       38.74%       64,328.00	7402 · PE4-Engineering	8,347.50	49,413.00	-41,065.50	16.89%	84,708.00
7502 · PE6&7-Engineering       24,583.50       52,323.34       -27,739.84       46.98%       81,840.00         7602 · PE8&9-Engineering       14,536.00       37,524.66       -22,988.66       38.74%       64,328.00	7402.10 · PE4-MZ1 Pomona Project	168,456.66	295,315.41	-126,858.75	57.04%	506,255.00
<b>7602 · PE8&amp;9-Engineering</b> 14,536.00 37,524.66 -22,988.66 38.74% 64,328.00	7403 · PE4-Contract Svcs	4,800.00	11,666.66	-6,866.66	41.14%	20,000.00
			52,323.34	-27,739.84	46.98%	81,840.00
Total Engineering Services Costs 1,177,688.61 1,724,884.94 -547,196.33 68.28% 2,732,638.00 *	<u> </u>					
	Total Engineering Services Costs	1,177,688.61	1,724,884.94	-547,196.33	68.28%	2,732,638.00 *

^{*} Wildermuth and Subcontractor Engineering Budget of \$2,595,942 plus Carryover Funds from FY 2014/15 of \$136,696 = \$2,732,638 Carryover Funds from FY 2014/15 = \$9,813 (7107.2); \$34,770 (7107.6); \$12,127 (7108.31); \$35,986 (7108.41); \$33,000 (7108.7); and \$11,000 (7502) = \$136,696

### 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 Board. This is a 50/50 cost sharing agreement between Watermaster and IEUA with a not to exceed amount of \$300,000 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, 2016:

	Wildermuth nvironmental, Inc.	vironmental, "TO"		50% Billing <b>"FROM"</b> IEUA		Costs For Watermaster		 atermaster Staff "Hours"	W	atermaster Staff "Costs"
May 2012 - Jun. 2012	\$ 11,143.75	\$	(5,571.88)	\$	_	\$	5,571.88	 4.00	\$	411.38
Jul. 2012 - Jun. 2013	\$ 120,945.28	\$	(60,472.64)	\$	6,275.92	\$	66,748.56	73.00	\$	7,837.27
Jul. 2013 - Jun. 2014	\$ 21,722.09	\$	(10,861.05)	\$	474.09	\$	11,335.14	56.00	\$	5,719.30
Jul. 2014 - Jun. 2015	\$ 198,138.44	\$	(99,069.22)	\$	-	\$	99,069.22	9.00	\$	1,141.63
Jul. 2015 - Jan. 2016	\$ 4,428.00	\$	(2,214.00)	\$	-	\$	2,214.00	30.00	\$	3,587.65
Totals	\$ 356,377.56	\$	(178,188.78)	\$	6,750.01	\$	184,938.79	172.00	\$	18,697.23
	 7108.7	71	08.71, 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, 2016.

### PREVIOUSLY REPORTED ACTIONS (Descending Order)

### July 2015:

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 2015/16 annual administrative fee invoice was issued on July 1, 2015 in the amount of \$157,349.47 under invoice number DYY 15-01. On August 3, 2015 payment in the amount of \$157,349.47 was received from The Metropolitan Water District of Southern California.

### "CARRY OVER" FUNDING

### CURRENT MONTH - JANUARY 2016

As of January 31, 2016, the total (YTD) amount remaining of the "Carried Over" funding is \$1,476,243.40 (\$1,872,937.85 - \$396,694.45 = \$1,476,243.40). The following details are provided:

"Carried Over" Expenses At June 30, 2015

Printing - Annual Report	, ,				GL Account		
Ground Level Monitoring - Engineering   \$ 9,813.00   C 7107.2   FY 2014/15   ENG	Printing - Annual Report	\$	5,000.00	Α	6045	FY 2014/15	ADM
Ground Level - Contracted Services	Rauch Communication Consultants - Annual Report	\$	15,000.00	В	6061.3	FY 2014/15	ADM
Chino Hills ASR Project	Ground Level Monitoring - Engineering	\$	9,813.00	С	7107.2 1	FY 2014/15	ENG
Hydraulic Control Engineering - PBHSP	Ground Level - Contracted Services	\$	34,770.00	D	7107.6 ¹	FY 2014/15	ENG
Hydraulic Control Monitoring Lab Services - PBHSP	Chino Hills ASR Project	\$	29,285.99	Е	7107.62	FY 2014/15	ASR
Hydraulic Control Monitoring - Adaptive Mgmt Plan   \$ 33,000.00   H   7108.32 3   FY 2014/15   PROJ Jurupa Pumping Station (TO #5)   \$ 37,981.33   I   7209.1   FY 2014/15   PROJ Wineville Basin Proof of Concept (TO #6)   \$ 35,397.53   J   7209.2   FY 2014/15   PROJ PE 6&7 - Engineering Services   \$ 11,000.00   K   7502 4   FY 2014/15   PROJ PE 6&7 - Engineering Services   \$ 11,000.00   K   7502 4   FY 2014/15   PROJ PE 6&7 - Engineering Services   \$ 11,000.00   K   7509.3   FY 2014/15   PROJ San Sevaine Recharge Improvement Project (TO #8)   \$ 475,000.00   M   7690.4   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ 475,000.00   N   7690.5   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project   \$ 80,000.00   N   7690.61   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project   \$ 80,000.00   P   7690.62   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project   \$ 383,200.00   O   7690.61   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project   \$ 75,000.00   P   7690.62   FY 2014/15   PROJ GE20 Turnout Noise Anal River HCP (TO #7)   \$ 75,000.00   P   7690.62   FY 2014/15   PROJ Lower Day Basin RMPU (TO #2)   \$ 49,000.00   R   7690.8   FY 2014/15   PROJ FY 2014/15   PROJ GE20 Turnout Noise Received To Date FY 2015/16)   FY 2014/15   PROJ Hydraulic Control Monitoring Lab Services - PBHSP   \$ (9,820.00)   G   7108.41   FY 2014/15   FN G Hydraulic Control Monitoring - Adaptive Mgmt Plan   \$ (33,000.00)   H   7108.32   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (111,118.08)   M   7690.4   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (111,118.08)   M   7690.62   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (56,514.47)   O   7690.61   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (97,034.16)   P   7690.62   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (97,034.16)   P   7690.62   FY 2014/15   PROJ GE20 Turnout Noise Abatement Project (TO #8)   \$ (97,034.16)   P   7690.62   FY 2014/15	Hydraulic Control Engineering - PBHSP	\$	12,127.00	F	7108.31 ²	FY 2014/15	ENG
Durupa Pumping Station (TO #5)	Hydraulic Control Monitoring Lab Services - PBHSP	\$	35,986.00	G	7108.41 ²	FY 2014/15	ENG
Wineville Basin Proof of Concept (TO #6)         \$ 35,397.53         J 7209.2         FY 2014/15         PROJ           PE 687 - Engineering Services         \$ 11,000.00         K 7502 4         FY 2014/15         ENG           Hickory Basin Recharge Improvement Project         \$ 3,877.00         L 7690.3         FY 2014/15         PROJ           San Sevaine Recharge Improvement Project (TO #8)         \$ 475,000.00         M 7690.4         FY 2014/15         PROJ           GB20 Turnout Noise Abatement Project         \$ 80,000.00         N 7690.5         FY 2014/15         PROJ           GWR SCADA Upgrades (TO #4)         \$ 383,200.00         O 7690.61         FY 2014/15         PROJ           SCADA Communication Upgrades (TO #3)         \$ 547,500.00         P 7690.62         FY 2014/15         PROJ           Upper Santa Ana River HCP (TO #7)         \$ 75,000.00         Q 7690.7         FY 2014/15         PROJ           Lower Day Basin RMPU (TO #2)         \$ 49,000.00         R 7690.8         FY 2014/15         PROJ           Total Balance, Jule 1, 2015         \$ 1,872,937.85         FY 2014/15         PROJ           Less: (Invoices Received To Date FY 2015/16)         \$ (15,000.00)         B 6061.3         FY 2014/15         ADM           Hydraulic Control Monitoring Lab Services - PBHSP         (9,820.00)	Hydraulic Control Monitoring - Adaptive Mgmt Plan	\$	33,000.00	Н	7108.32 ³	FY 2014/15	ENG
PE 6&7 - Engineering Services	Jurupa Pumping Station (TO #5)	\$	37,981.33	1	7209.1	FY 2014/15	PROJ
Hickory Basin Recharge Improvement Project   \$ 3,877.00   L 7690.3   FY 2014/15   PROJ San Sevaine Recharge Improvement Project (TO #8)   \$ 475,000.00   M 7690.4   FY 2014/15   PROJ GB20 Turnout Noise Abatement Project   \$ 80,000.00   N 7690.5   FY 2014/15   PROJ GWR SCADA Upgrades (TO #4)   \$ 383,200.00   O 7690.61   FY 2014/15   PROJ SCADA Communication Upgrades (TO #3)   \$ 547,500.00   P 7690.62   FY 2014/15   PROJ Upper Santa Ana River HCP (TO #7)   \$ 75,000.00   Q 7690.7   FY 2014/15   PROJ Lower Day Basin RMPU (TO #2)   \$ 49,000.00   R 7690.8   FY 2014/15   PROJ Total Balance, June 30, 2015   \$ 1,872,937.85      "Carried Over" Balance, July 1, 2015   \$ 1,872,937.85	Wineville Basin Proof of Concept (TO #6)	\$	35,397.53	J	7209.2	FY 2014/15	PROJ
San Sevaine Recharge Improvement Project (TO #8)         \$ 475,000.00         M         7690.4         FY 2014/15         PROJ           CB20 Turnout Noise Abatement Project         \$ 80,000.00         N         7690.5         FY 2014/15         PROJ           GWR SCADA Upgrades (TO #4)         \$ 383,200.00         O         7690.61         FY 2014/15         PROJ           SCADA Communication Upgrades (TO #3)         \$ 547,500.00         P         7690.62         FY 2014/15         PROJ           Upper Santa Ana River HCP (TO #7)         \$ 75,000.00         Q         7690.7         FY 2014/15         PROJ           Lower Day Basin RMPU (TO #2)         \$ 49,000.00         R         7690.8         FY 2014/15         PROJ           "Carried Over" Balance, July 1, 2015         \$ 1,872,937.85         FY 2014/15         PROJ           Less: (Invoices Received To Date FY 2015/16)         \$ 1,872,937.85         FY 2014/15         ADM           Hydraulic Control Monitoring Lab Services - PBHSP         \$ (9,820.00)         G         7108.41 2         FY 2014/15         ENG           Hydraulic Control Monitoring - Adaptive Mgmt Plan         \$ (33,000.00)         H         7108.32 3         FY 2014/15         ENG           San Sevaine Recharge Improvement Project (TO #8)         \$ (111,118.08)         M	PE 6&7 - Engineering Services	\$	11,000.00	Κ	7502 4	FY 2014/15	ENG
CB20 Turnout Noise Abatement Project \$ 80,000.00 N 7690.5 FY 2014/15 PROJ GWR SCADA Upgrades (TO #4) \$ 383,200.00 O 7690.61 FY 2014/15 PROJ SCADA Communication Upgrades (TO #3) \$ 547,500.00 P 7690.62 FY 2014/15 PROJ Upper Santa Ana River HCP (TO #7) \$ 75,000.00 Q 7690.7 FY 2014/15 PROJ Lower Day Basin RMPU (TO #2) \$ 49,000.00 R 7690.8 FY 2014/15 PROJ Total Balance, June 30, 2015 \$ 1,872,937.85  "Carried Over" Balance, July 1, 2015 \$ 1,872,937.85  Less: (Invoices Received To Date FY 2015/16)  Rauch Communication Consultants - Annual Report \$ (15,000.00) B 6061.3 FY 2014/15 ADM Hydraulic Control Monitoring Lab Services - PBHSP \$ (9,820.00) G 7108.41 FY 2014/15 ENG Hydraulic Control Monitoring - Adaptive Mgmt Plan \$ (33,000.00) H 7108.32 FY 2014/15 ENG San Sevaine Recharge Improvement Project (TO #8) \$ (111,118.08) M 7690.4 FY 2014/15 PROJ CB20 Turnout Noise Abatement Project \$ (25,207.74) N 7690.5 FY 2014/15 PROJ GWR SCADA Upgrades (TO #4) \$ (56,514.47) O 7690.61 FY 2014/15 PROJ SCADA Communication Upgrades (TO #3) \$ (97,034.16) P 7690.62 FY 2014/15 PROJ Lower Day Basin RMPU (TO #2) \$ (49,000.00) R 7690.8 FY 2014/15 PROJ	Hickory Basin Recharge Improvement Project	\$	3,877.00	L	7690.3	FY 2014/15	PROJ
GWR SCADA Upgrades (TO #4)         \$ 383,200.00         O 7690.61         FY 2014/15         PROJ           SCADA Communication Upgrades (TO #3)         \$ 547,500.00         P 7690.62         FY 2014/15         PROJ           Upper Santa Ana River HCP (TO #7)         \$ 75,000.00         Q 7690.7         FY 2014/15         PROJ           Lower Day Basin RMPU (TO #2)         \$ 49,000.00         R 7690.8         FY 2014/15         PROJ           "Carried Over" Balance, June 30, 2015         \$ 1,872,937.85         FY 2014/15         PROJ           "Carried Over" Balance, July 1, 2015         \$ 1,872,937.85         FY 2014/15         ADM           Rauch Communication Consultants - Annual Report         \$ (15,000.00)         B 6061.3         FY 2014/15         ADM           Hydraulic Control Monitoring Lab Services - PBHSP         \$ (9,820.00)         G 7108.41 FY 2014/15         FN G           Hydraulic Control Monitoring - Adaptive Mgmt Plan         \$ (33,000.00)         H 7108.32 FY 2014/15         FN G           San Sevaine Recharge Improvement Project (TO #8)         \$ (111,118.08)         M 7690.4         FY 2014/15         PROJ           CB20 Turnout Noise Abatement Project         \$ (25,207.74)         N 7690.5         FY 2014/15         PROJ           GWR SCADA Upgrades (TO #4)         \$ (56,514.47)         O 7690.61	San Sevaine Recharge Improvement Project (TO #8)	\$	475,000.00	M	7690.4	FY 2014/15	PROJ
SCADA Communication Upgrades (TO #3)         \$ 547,500.00         P 7690.62         FY 2014/15         PROJ           Upper Santa Ana River HCP (TO #7)         \$ 75,000.00         Q 7690.7         FY 2014/15         PROJ           Lower Day Basin RMPU (TO #2)         \$ 49,000.00         R 7690.8         FY 2014/15         PROJ           "Carried Over" Balance, June 30, 2015         \$ 1,872,937.85         FY 2014/15         PROJ           "Carried Over" Balance, July 1, 2015         \$ 1,872,937.85         FY 2014/15         ADM           Less: (Invoices Received To Date FY 2015/16)         Rauch Communication Consultants - Annual Report         \$ (15,000.00)         B 6061.3         FY 2014/15         ADM           Hydraulic Control Monitoring Lab Services - PBHSP         \$ (9,820.00)         G 7108.41 2         FY 2014/15         ENG           Hydraulic Control Monitoring - Adaptive Mgmt Plan         \$ (33,000.00)         H 7108.32 3         FY 2014/15         ENG           San Sevaine Recharge Improvement Project (TO #8)         \$ (111,118.08)         M 7690.4         FY 2014/15         PROJ           CB20 Turnout Noise Abatement Project         \$ (25,207.74)         N 7690.5         FY 2014/15         PROJ           GWR SCADA Upgrades (TO #4)         \$ (56,514.47)         O 7690.61         FY 2014/15         PROJ           SCA	CB20 Turnout Noise Abatement Project	\$	80,000.00	Ν	7690.5	FY 2014/15	PROJ
Carried Over Balance, July 1, 2015   \$ 1,872,937.85   \$ 1,872,937.85	GWR SCADA Upgrades (TO #4)	\$	383,200.00	0	7690.61	FY 2014/15	PROJ
Lower Day Basin RMPU (TO #2)	SCADA Communication Upgrades (TO #3)	\$	547,500.00	Р	7690.62	FY 2014/15	PROJ
Total Balance, June 30, 2015	Upper Santa Ana River HCP (TO #7)	\$	75,000.00	Q	7690.7	FY 2014/15	PROJ
"Carried Over" Balance, July 1, 2015 Less: (Invoices Received To Date FY 2015/16) Rauch Communication Consultants - Annual Report Hydraulic Control Monitoring Lab Services - PBHSP Hydraulic Control Monitoring - Adaptive Mgmt Plan San Sevaine Recharge Improvement Project (TO #8)  CB20 Turnout Noise Abatement Project  GWR SCADA Upgrades (TO #4)  SCADA Communication Upgrades (TO #3) Lower Day Basin RMPU (TO #2)  \$ 1,872,937.85  \$ 1,872,937.85  \$ 1,872,937.85  \$ (15,000.00) B 6061.3 FY 2014/15 ENG  \$ (9,820.00) G 7108.41 2 FY 2014/15 ENG  \$ (33,000.00) H 7108.32 3 FY 2014/15 ENG  \$ (111,118.08) M 7690.4 FY 2014/15 PROJ  \$ (25,207.74) N 7690.5 FY 2014/15 PROJ  \$ (56,514.47) O 7690.61 FY 2014/15 PROJ  \$ (97,034.16) P 7690.62 FY 2014/15 PROJ	Lower Day Basin RMPU (TO #2)	\$	49,000.00	R	7690.8	FY 2014/15	PROJ
Less: (Invoices Received To Date FY 2015/16)         Rauch Communication Consultants - Annual Report       \$ (15,000.00) B 6061.3 FY 2014/15 ADM         Hydraulic Control Monitoring Lab Services - PBHSP       \$ (9,820.00) G 7108.41 FY 2014/15 ENG         Hydraulic Control Monitoring - Adaptive Mgmt Plan       \$ (33,000.00) H 7108.32 FY 2014/15 ENG         San Sevaine Recharge Improvement Project (TO #8)       \$ (111,118.08) M 7690.4 FY 2014/15 PROJ         CB20 Turnout Noise Abatement Project       \$ (25,207.74) N 7690.5 FY 2014/15 PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47) O 7690.61 FY 2014/15 PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16) P 7690.62 FY 2014/15 PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00) R 7690.8 FY 2014/15 PROJ	Total Balance, June 30, 2015	\$	1,872,937.85				
Less: (Invoices Received To Date FY 2015/16)         Rauch Communication Consultants - Annual Report       \$ (15,000.00) B 6061.3 FY 2014/15 ADM         Hydraulic Control Monitoring Lab Services - PBHSP       \$ (9,820.00) G 7108.41 FY 2014/15 ENG         Hydraulic Control Monitoring - Adaptive Mgmt Plan       \$ (33,000.00) H 7108.32 FY 2014/15 ENG         San Sevaine Recharge Improvement Project (TO #8)       \$ (111,118.08) M 7690.4 FY 2014/15 PROJ         CB20 Turnout Noise Abatement Project       \$ (25,207.74) N 7690.5 FY 2014/15 PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47) O 7690.61 FY 2014/15 PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16) P 7690.62 FY 2014/15 PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00) R 7690.8 FY 2014/15 PROJ	"Carried Over" Balance, July 1, 2015	\$	1 872 937 85				
Rauch Communication Consultants - Annual Report       \$ (15,000.00)       B 6061.3       FY 2014/15       ADM         Hydraulic Control Monitoring Lab Services - PBHSP       \$ (9,820.00)       G 7108.41 ² FY 2014/15       ENG         Hydraulic Control Monitoring - Adaptive Mgmt Plan       \$ (33,000.00)       H 7108.32 ³ FY 2014/15       ENG         San Sevaine Recharge Improvement Project (TO #8)       \$ (111,118.08)       M 7690.4       FY 2014/15       PROJ         CB20 Turnout Noise Abatement Project       \$ (25,207.74)       N 7690.5       FY 2014/15       PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47)       O 7690.61       FY 2014/15       PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P 7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R 7690.8       FY 2014/15       PROJ	· •	Ψ	1,012,001.00				
Hydraulic Control Monitoring Lab Services - PBHSP         \$ (9,820.00)         G 7108.41 ² FY 2014/15         ENG           Hydraulic Control Monitoring - Adaptive Mgmt Plan         \$ (33,000.00)         H 7108.32 ³ FY 2014/15         ENG           San Sevaine Recharge Improvement Project (TO #8)         \$ (111,118.08)         M 7690.4         FY 2014/15         PROJ           CB20 Turnout Noise Abatement Project         \$ (25,207.74)         N 7690.5         FY 2014/15         PROJ           GWR SCADA Upgrades (TO #4)         \$ (56,514.47)         O 7690.61         FY 2014/15         PROJ           SCADA Communication Upgrades (TO #3)         \$ (97,034.16)         P 7690.62         FY 2014/15         PROJ           Lower Day Basin RMPU (TO #2)         \$ (49,000.00)         R 7690.8         FY 2014/15         PROJ	,	\$	(15,000,00)	R	6061.3	FY 2014/15	ΔDM
Hydraulic Control Monitoring - Adaptive Mgmt Plan       \$ (33,000.00)       H       7108.32 ³       FY 2014/15       ENG         San Sevaine Recharge Improvement Project (TO #8)       \$ (111,118.08)       M       7690.4       FY 2014/15       PROJ         CB20 Turnout Noise Abatement Project       \$ (25,207.74)       N       7690.5       FY 2014/15       PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47)       O       7690.61       FY 2014/15       PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P       7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R       7690.8       FY 2014/15       PROJ	•	•	• • •				
San Sevaine Recharge Improvement Project (TO #8)       \$ (111,118.08)       M       7690.4       FY 2014/15       PROJ         CB20 Turnout Noise Abatement Project       \$ (25,207.74)       N       7690.5       FY 2014/15       PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47)       O       7690.61       FY 2014/15       PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P       7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R       7690.8       FY 2014/15       PROJ	· ·		, ,				
CB20 Turnout Noise Abatement Project       \$ (25,207.74)       N 7690.5       FY 2014/15       PROJ         GWR SCADA Upgrades (TO #4)       \$ (56,514.47)       O 7690.61       FY 2014/15       PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P 7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R 7690.8       FY 2014/15       PROJ			, ,				
GWR SCADA Upgrades (TO #4)       \$ (56,514.47)       O 7690.61       FY 2014/15       PROJ         SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P 7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R 7690.8       FY 2014/15       PROJ							
SCADA Communication Upgrades (TO #3)       \$ (97,034.16)       P 7690.62       FY 2014/15       PROJ         Lower Day Basin RMPU (TO #2)       \$ (49,000.00)       R 7690.8       FY 2014/15       PROJ	-						
Lower Day Basin RMPU (TO #2) \$ (49,000.00) R 7690.8 FY 2014/15 PROJ							
	· · · · · · · · · · · · · · · · · · ·						
							2

¹ Long-Term Pumping Test

### BACKGROUND OF "CARRY OVER" FUNDING

Once the FY 2014/15 period as of June 30, 2015 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 2015/16 budget. The Total "Carry Over" funding amount of \$1,872,937.852 was posted to the accounts as of January 31, 2016. The total amount of \$1,872,937.85 consisted of \$1,686,955.86 from Capital Improvement Projects; \$136,696.00 from Engineering Services; \$29,285.99 from the Chino Hills ASR Project; and \$20,000.00 from the Administration budget for completion of the Annual Reports.

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

³ Adaptive Management Plan

² Prado Basin Habitat Sustainability Program monitoring program ⁴ Upload GeoTracker and EnviroStor sites

Budget vs. Actual Report for the Period Page 13 of 14

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 in the amount of \$37,981.33 (account 7209.1); Wineville Basin Proof of Concept in the amount of \$35,397.53 (account 7209.2); and Hickory Basin Recharge Improvement Project in the amount of \$3,877.00 (account 7690.3). The total amount available is \$77,255.86 (\$37,981.33 + \$35,397.53 + \$3,877.00 = \$77,255.86).

The San Sevaine Recharge Improvement Project-Task Order #8 has a remaining funded budget balance of \$475,000 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 has a remaining funded budget balance of \$383,200 in account (7960.61); the SCADA Communication Upgrades-Task Order #3 has a remaining funded budget balance of \$547,500 in account (7690.62); the Upper Santa Ana River HCP-Task Order #7 has a remaining funded balance of \$75,000 in account (7690.7); and the Lower Day Basin RMPU-Task Order #2 has a remaining funded budget balance of \$49,000 in account (7690.8). The total funded budget for these combined projects is \$1,609,700.

Unspent funds related to ongoing projects and associated activities from the Engineering Services budget from FY 2014/15 in several accounts totaling \$136,696 were "Carried Over" into the current FY 2015/16 budget. These funds were from the Ground Level Monitoring-Engineering (7107.2) in the amount of \$9,813; Ground Level Monitoring-Contracted Services (7107.6) in the amount of \$34,770; Hydraulic Control Monitoring-Engineering-PBHSP (7108.31) in the amount of \$12,127; Hydraulic Control Monitoring-Lab Services-PBHSP (7108.41) in the amount of \$35,986; Hydraulic Control Monitoring-Adaptive Management Plan (7108.7) in the amount of \$33,000; and Cooperative Efforts/Salt Management Engineering Services (7502) in the amount of \$11,000.

The ongoing Chino Hills ASR Project continues into FY 2015/16 and previous years funding of \$29,285.99 has been carried over into account (7107.62).

Unspent funds of \$20,000 related to the ongoing Annual Reports for development, production, and printing from the Administrative budget from FY 2014/15 from two accounts were "Carried Over" into the current FY 2015/16 budget. These funds were from the Printing-Annual Report (6045) in the amount of \$5,000; and Rauch Communication Consultants-Annual Report (6061.3) in the amount of \$15,000.

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, 2016, any remaining balances of the FY 2015/16 and prior years funding (if any), along with any new FY 2015/16 expenses, will then be "Carried Over" into the FY 2016/17 budget.

### AUDIT FIELD WORK

### FY 2015/16

Auditors from the audit firm of Fedak & Brown LLP are scheduled to be onsite at the Watermaster offices on March 29 and March 30, 2016. This will be 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 is planned for August 2016, with the Annual Financial and Audit Reports presented to the Watermaster Board at the November 17, 2016 Board meeting. The Annual Financial and Audit Reports for FY 2015/16 will be posted to the Watermaster website in December 2016.

### FY 2014/15

Auditors from the audit firm of Fedak & Brown LLP were onsite at the Watermaster offices on August 10 and August 11, 2015. This was the final field work and the start of the development of the audited financial reports and statements for FY 2014/15. The initial field work was completed on June 15 and June 16, 2015. On November 19, 2015, the Senior Manager of Fedak & Brown, LLP presented the Annual Financial and Audit Reports to the Watermaster Board. The Annual Financial and Audit Reports for FY 2014/15 were posted to the Watermaster website on November 23, 2015.

Budget vs. Actual Report for the Period Page 14 of 14

### ASSESSMENT INVOICING

### CURRENT MONTH - JANUARY 2016

As discussed during the FY 2015/16 Mid-Year Review during the February 2016 meetings, if the Safe Yield Redetermination and Reset is resolved and completed during the April 8, 2016 court hearing, the FY 2015/16 Assessment Package (Production Year FY 2014/15) could be completed and presented in the June or July 2016 timeframe. If the Assessment invoices were then issued in July 2016, payment would be due to Watermaster in August 2016. As presented during the FY 2015/16 Mid-Year Review, Watermaster projects the current cash flow could sustain Watermaster until late September 2016.

### PREVIOUSLY REPORTED ACTIONS (Descending Order)

#### December 2015:

Due to the Safe Yield Reset process this year, and the effects that it had on the Assessment Package, production of the Assessment Package was delayed. The Assessment Package will not be produced until the Court has considered the Safe Yield Reset Agreement, which is expected in a few months. However, Watermaster cannot wait until that time to collect assessments, as the funds will be needed sooner than that in order to keep Watermaster operational.

On November 19, 2015 the Watermaster Board approved staff's recommendation for collection of an interim partial assessment based upon fifty percent of last year's Appropriative Pool Admin and OBMP assessments, including those paid on behalf of the Agricultural Pool, in addition to fifty percent of last year's Recharge Debt and Recharge Improvement assessments, and to collect fifty percent of last year's Non-Ag Pool Admin and OBMP assessments. The balance, accounting for the interim assessment, would be collected when the Assessment Package is produced, following consideration of the Safe Yield Reset Agreement by the Court. Note that if a Party has an amount due of less than \$500 (including special assessments), collection was deferred until the final assessment invoice later in the fiscal year.

Included as part of the interim assessment invoicing, the Non-Agricultural Pool had a Special Assessment of \$60,000 as approved during a Confidential Session on November 12, 2015. The \$60,000 was allocated to the Non-Agricultural Pool members based upon the tentative actual production numbers from 2014/15 and will be adjusted once all Water Activity Reports (WARs) have been received.

The Watermaster staff issued and emailed the "interim" Assessment invoices on Thursday, November 19, 2015. The Assessment invoices were due 30 days from invoice date, on or before Monday, December 21, 2015. New for this payment cycle is the ability for parties to pay their invoice either by check or by wire transfer.

All "interim" Assessment invoice payments have been received.

### **ATTACHMENTS**

1. Financial Report - B5

## CHINO BASIN WATERMASTER Budget vs. Actual Current Month, Year-To-Date and Fiscal Year-End

1/12th (8.33%) of the Total Budget

7/12th (59%) of the Total Budget

100% of the Total Budget

		For The Month of January 2016				Year-To-Date as of January 31, 2016				Fiscal Year End as of June 30, 2016			
		Actual	Budget	\$ Over(Under)	% of Budget	Actual Budget \$ Over(Under) % of Budget		Projected	Budget	% of Budget			
Income								y over(onder)	70 Of Budget	Trojected	Budget	\$ Over(Under)	% of Budget
	· Local Agency Subsidies	0.00	0.00	0.00	0.0%	157,349.47	157,941.00	-591.53	99.63%	157,941.00	157 041 00	0.00	400.004
	· Admin Asmnts-Approp Pool	0.00	0.00	0.00	0.0%	3,569,781.01	8,637,418.00	-5,067,636.99	41.33%	8,637,418.00	157,941.00	0.00	100.0%
	· Admin Asmnts-Non-Agri Pool	0.00	0.00	0.00	0.0%	151,739.47	296,797.00	-145,057.53	51.13%		8,637,418.00	0.00	100.0%
	· Non Operating Revenues	0.00	0.00	0.00	0.0%	10,098.46	11,025.00	-926.54	91.6%	296,797.00 22,050.00	296,797.00	0.00	100.0%
	· Miscellaneous Income	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	22,050.00	0.00	100.0%
Total Inc	come	0.00	0.00	0.00	0.0%	3,888,968.41	9,103,181.00	-5,214,212.59	42.72%	9,114,206.00	9,114,206.00	0.00	100.0%
Gross P	rofit	0.00	0.00	0.00	0.0%	3,888,968.41	9,103,181.00	-5,214,212.59	42.72%	9,114,206.00		0.00	
Expense					5.575	0,000,000.41	5,100,101.00	-0,214,212.00	42.7270	9,114,200.00	9,114,206.00	0.00	100.0%
	· Admin. Salary/Benefit Costs	72,026.04	78,074.00	-6,047.96	92.25%	498,291.77	520,934.00	-22,642.23	95.65%	877,531.46	990 501 00	2.050.54	00.050
	Office Building Expense	9,213.85	9,432.00	-218.15	97.69%	59,620.89	65,289.00	-5,668.11	91.32%	105,814.08	880,591.00 110,381.00	-3,059.54	99.65%
6030	· Office Supplies & Equip.	1,689.49	2,630.00	-940.51	64.24%	14,258.91	18,910.00	-4,651.09	75.4%	30,638.84	32,560.00	-4,566.92	95.86%
6040	Postage & Printing Costs	3,718.39	4,102.00	-383.61	90.65%	27,190.97	38,118.00	-10,927.03	71.33%	59,445.16		-1,921.16	94.1%
	· Information Services	11,049.40	11,570.00	-520.60	95.5%	65,550.17	80,490.00	-14,939.83	81.44%	129,001.54	60,032.00 131,840.00	-586.84 -2,838.46	99.02% 97.85%
	· Contract Services	0.00	0.00	0.00	0.0%	22,940.75	48,100.00	-25,159.25	47.69%	54,381.50	55,600.00	-2,838.46 -1,218.50	97.85%
6070	· Watermaster Legal Services	16,983.67	16,144.00	839.67	105.2%	150,540.74	130,019.00	20,521.74	115.78%	267,114.14	256,450.00	10,664.14	104.16%
6080	· Insurance	0.00	0.00	0.00	0.0%	26,083.25	26,776.00	-692.75	97.41%	27,583.25	27,916.00	-332.75	98.81%
6110	· Dues and Subscriptions	9,057.50	4,267.00	4,790.50	212.27%	18,478.80	20,085.00	-1,606.20	92.0%	20,842.60	21,335.00	-492.40	97.69%
6140	· WM Admin Expenses	440.96	75.00	365.96	587.95%	1,391.29	1,425.00	-33.71	97.63%	2,400.66	2,700.00	-299.34	88.91%
	· Field Supplies	474.99	0.00	474.99	100.0%	658.59	950.00	-291.41	69.33%	1,117.20	1,450.00	-332.80	77.05%
6170	· Travel & Transportation	1,869.48	2,005.00	-135.52	93.24%	12,347.59	14,665.00	-2,317.41	84.2%	22,456.22	25,320.00	-2,863.78	88.69%
6190	· Training, Conferences, Seminars	2,773.86	0.00	2,773.86	100.0%	16,593.89	13,884.00	2,709.89	119.52%	27,640.06	22,400.00	5,240.06	123.39%
6200	· Advisory Comm - WM Board	3,223.00	3,754.00	-531.00	85.86%	19,525.28	25,677.00	-6,151.72	76.04%	34,104.56	43,674.00	-9,569.44	78.09%
6300	· Watermaster Board Expenses	10,533.28	15,084.00	-4,550.72	69.83%	71,796.63	104,598.00	-32,801.37	68.64%	137,526.70	178,744.00	-41,217.30	76.94%
8300	· Appr PI-WM & Pool Admin	4,467.42	11,491.00	-7,023.58	38.88%	28,315.86	79,640.00	-51,324.14	35.56%	122,696.88	136,069.00	-13,372.12	90.17%
8400	· Agri Pool-WM & Pool Admin	3,977.08	5,107.00	-1,129.92	77.88%	22,723.47	35,053.00	-12,329.53	64.83%	47,492.78	59,690.00	-12,197.22	79.57%
8467	· Ag Legal & Technical Services	41,732.50	17,084.00	24,648.50	244.28%	207,660.00	119,584.00	88,076.00	173.65%	331,855.00	205,000.00	126,855.00	161.88%
8470	· Ag Meeting Attend -Special	2,200.00	1,850.00	350.00	118.92%	18,825.00	12,950.00	5,875.00	145.37%	33,250.00	22,200.00	11,050.00	149.78%
8471	· Ag Pool Expense	0.00	0.00	0.00	0.0%	0.00	32,500.00	-32,500.00	0.0%	30,000.00	65,000.00	-35,000.00	46.15%
8485	· Ag Pool - Misc. Exp Ag Fund	0.00	0.00	0.00	0.0%	0.00	200.00	-200.00	0.0%	100.00	400.00	-300.00	25.0%
8500	· Non-Ag PI-WM & Pool Admin	7,491.06	9,077.00	-1,585.94	82.53%	55,604.68	63,124.00	-7,519.32	88.09%	97,727.24	107,974.00	-10,246.76	90.51%
9400	· Depreciation Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	5,500.00	0.00	5,500.00	100.0%
9500	· Allocated G&A Expenditures	-19,097.90	-33,442.00	14,344.10	57.11%	-133,835.18	-234,096.00	100,260.82	57.17%	-229,474.56	-401,307.00	171,832.44	57.18%
6900	· Optimum Basin Mgmt Plan	205,777.17	110,785.44	94,991.73	185.74%	1,088,070.68	887,940.10	200,130.58	122.54%	1,614,587.02	1,344,437.00	270,150.02	120.09%
6950	· Mutual Agency Projects	0.00	0.00	0.00	0.0%	0.00	10,000.00	-10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
9501	G&A Expenses Allocated-OBMP	3,602.05	10,721.34	-7,119.29	33.6%	50,067.61	75,049.34	-24,981.73	66.71%	92,931.12	128,656.00	-35,724.88	72.23%
7101	· Production Monitoring	11,047.82	4,998.50	6,049.32	221.02%	50,395.96	33,486.50	16,909.46	150.5%	78,696.28	56,547.00	22,149.28	139.17%
7102	· In-line Meter Installation	0.00	5,638.91	-5,638.91	0.0%	4,123.55	39,217.41	-35,093.86	10.52%	33,247.10	67,087.00	-33,839.90	49.56%
7103	· Grdwtr Quality Monitoring	454.49	18,642.27	-18,187.78	2.44%	126,268.38	129,022.77	-2,754.39	97.87%	251,627.78	220,342.00	31,285.78	114.2%
7104	· Gdwtr Level Monitoring	25,987.11	21,270.00	4,717.11	122.18%	143,742.43	146,247.00	-2,504.57	98.29%	235,510.64	247,627.00	-12,116.36	95.11%
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	24,387.20	35,285.25	-10,898.05	69.11%	60,483.34	235,865.74	-175,382.40	25.64%	247,192.28	327,291.99	-80,099.71	75.53%

CHINO BASIN WATERMASTER
Budget vs. Actual
Current Month, Year-To-Date and Fiscal Year-End

1/12th (8.33%) of the Total Budget

7/12th (59%) of the Total Budget

100% of the Total Budget

	Fo	or The Month o	f January 2016		Yea	r-To-Date as of	January 31, 2016	5	Fiscal Year End as of June 30, 2016			
	Actual	Budget	\$ Over(Under)	% of Budget	Actual	Actual Budget		% of Budget	Projected	Budget	\$ Over(Under)	% of Budget
7108 · Hydraulic Control Monitoring	29,876.88	25,551.18	4,325.70	116.93%	179,549.23	269,853.18	-90,303.95	66.54%	374,344.70	397,236.00	-22,891.30	94.24%
7109 · Recharge & Well Monitoring Prog	0.00	1,655.59	-1,655.59	0.0%	3,709.75	11,589.09	-7,879.34	32.01%	12,419.50	19,867.00	-7,447.50	62.51%
7200 · PE2- Comp Recharge Pgm	12,328.19	17,373.66	-5,045.47	70.96%	364,604.19	795,234.52	-430,630.33	45.85%	1,010,552.00	1,078,549.86	-67,997.86	93.7%
7300 · PE3&5-Water Supply/Desalte	0.00	3,849.00	-3,849.00	0.0%	0.00	26,544.00	-26,544.00	0.0%	0.00	45,276.00	-45,276.00	0.0%
7400 · PE4- Mgmt Plan	50,737.14	51,921.91	-1,184.77	97.72%	183,344.66	363,209.41	-179,864.75	50.48%	565,215.04	622,505.00	-57,289.96	90.8%
7500 · PE6&7-CoopEfforts/SaltMgmt	1,278.75	6,887.34	-5,608.59	18.57%	24,583.50	58,913.34	-34,329.84	41.73%	71,609.50	92,966.00	-21,356.50	77.03%
7600 · PE8&9-StorageMgmt/Conj Use	0.00	6,471.82	-6,471.82	0.0%	14,589.18	44,972.82	-30,383.64	32.44%	49,178.36	76,909.00	-27,730.64	63.94%
7690 · Recharge Improvement Debt Pymt	0.00	1,133,200.00	-1,133,200.00	0.0%	690,503.45	3,369,227.00	-2,678,723.55	20.49%	2,786,006.90	3,932,677.00	-1,146,670.10	70.84%
7700 · Inactive Well Protection Prgm	0.00	41.66	-41.66	0.0%	0.00	291.66	-291.66	0.0%	0.00	500.00	-500.00	0.0%
9502 · G&A Expenses Allocated-Projects	15,495.85	22,720.91	-7,225.06	68.2%	83,767.57	159,046.41	-75,278.84	52.67%	136,543.44	272,651.00	-136,107.56	50.08%
Total Expense	564,796.72	1,635,318.78	-1,070,522.06	34.54%	4,272,366.83	7,874,585.29	-3,602,218.46	54.26%	9,796,406.97	10,987,143.85	-1,190,736.88	89.16%
Net Ordinary Income	-564,796.72	-1,635,318.78	1,070,522.06	34.54%	-383,398.42	1,228,595.71	-1,611,994.13	-31.21%	-682,200.97	-1,872,937.85	1,190,736.88	36.42%
					1							
Other Income												
4210 · Approp Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	. 0.00	0.0%	0.00	0.00	0.00	0.0%
4220 · Non-Ag Pool-Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
4225 · Interest Income	0.00	0.00	0.00	0.0%	2,402.77	0.00	2,402.77	100.0%	4,800.00	0.00	4,800.00	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%
Tetal Other Income	0.00	0.00	0.00	0.0%	2,402.77	0.00	2,402.77	100.0%	4,800.00	0.00	4,800.00	100.0%
Other Expense												
5010 · Groundwater Replenishment	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
5100 · Other Water Purchases	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9200 · Interest Expense	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9251 · Other Post Employment Benefits	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9996 · Refund-Excess Reserves-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9997 · Refund-Excess Reserves-NonAg	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9998 · Refund-Recharge Debt-Approp.	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
9999 · To/(From) Reserves	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.00	0.0%
Total Other 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%
Net Other Income	0.00	0.00	0.00	0.0%	2,402.77	0.00	2,402.77	100.0%	4,800.00	0.00	4,800.00	100.0%
Net Income	-564,796.72	-1,635,318.78	1,070,522.06	34.54%	-380,995.65	1,228,595.71	-1,609,591.36	-31.01%	-677,400.97	-1,872,937.85	1,195,536.88	36.17%

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 2013-2 AND 2014-1



## CHINO BASIN WATERMASTER

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## PETER KAVOUNAS, P.E. General Manager

### STAFF REPORT

DATE:

March 17, 2016

TO:

**Advisory Committee Members** 

SUBJECT:

Semi-Annual Optimum Basin Management Program Status Reports 2013-2 and 2014-1

### SUMMARY

<u>Issue</u>: Watermaster produces the Semi-Annual Optimum Basin Management Program (OBMP) Status Reports. The reports for the period July to December 2013 and January to June 2014 have been drafted.

Recommendation: Recommend the Watermaster Board to adopt the Semi-Annual OBMP Status Report 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

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

### **Future Consideration**

Advisory Committee: March 17, 2016 Recommendation to the Watermaster Board Watermaster Board: March 24, 2016 Adopt the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes [Discretionary Function]

### ACTIONS:

March 10, 2016 – Appropriative Pool – Recommend to the Advisory Committee to recommend to the Board Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes. March 10, 2016 – Non-Agricultural Pool – Direct Advisory Committee representatives to support the Advisory Committee recommending to the Board Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes, and subject to any changes they deem necessary.

March 10, 2016 – Agricultural Pool – Recommend to the Advisory Committee to recommend to the Semi-Annual OBMP Status

March 10, 2016 – Agricultural Pool – Recommend to the Advisory Committee to recommend to the Semi-Annual OBMP Status Reports 2013-2 and 2014-1, along with filing a copy with the Court, subject to any necessary non-substantive changes.

March 17, 2016 - Advisory Committee -

March 24, 2016 - Watermaster Board -

### BACKGROUND

Semi-Annual OBMP Status Report 2013-2 covers the period from July to December 2013; Semi-Annual OBMP Status Report 2014-1 covers the period from January to June 2014. 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 2013-2 and 2014-1 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 2013-2
- 2. Semi-Annual Optimum Basin Management Program Status Report 2014-1

### **ATTACHMENT 1**

### Optimum Basin Management Program

Staff Status Report 2013-2: July to December 2013



#### CHINO BASIN WATERMASTER

Optimum Basin Management Program

### **Highlighted Activities**

- In December 2013, Watermaster and IEUA submitted an updated Maximum Benefit Monitoring Program Work Plan and Proposed Schedule for Achieving Hydraulic Control to the Regional Water Quality Control Board. The updated Work Plan states that Watermaster and IEUA will recalibrate the Chino Basin groundwater model every five years and use the model to estimate groundwater discharge from Chino-North to the Santa Ana River (i.e. annual underflow past the Chino Creek Well Field) and determine whether Hydraulic Control has been achieved.
- As a requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent Environmental Impact Report, Watermaster, Inland Empire Utilities Agency (IEUA), and Orange County Water District (OCWD) continued to develop a Prado Basin Habitat Sustainability Program (PBHSP). During this reporting period, a PBHSP Committee meeting to develop the Adaptive Management Plan was held on September 3, 2013. The IEUA began the bidding process to hire a contractor to perform the CPT and well installation, and continued property acquisition and permitting.
- Watermaster and IEUA continued to work together toward the Turner Basins/Guasti Park Recharge Expansion Project in MZ-2, which is projected to recharge an additional 300 acre-feet of storm runoff annually. Also, Watermaster and IEUA continued the Wineville Basin Proof-of-Concept investigation during the reporting period. Construction of the six test cells was completed in September 2013, and infiltration rate testing occurred in October and November 2013. In addition, during the reporting period, Watermaster and IEUA continued to develop a series of projects outside of the 2013 Amendment to the 2010 Recharge Master Plan (2013 RMPUA) effort that will increase stormwater and supplemental water recharge reliability, and have jointly agreed to fund these projects. Watermaster and IEUA began holding monthly meetings in order to provide regular updates to the Watermaster Parties on these new joint projects.
- Watermaster continued work on the 2013 RMPUA. The Recharge Master Plan Update Steering Committee (Steering Committee) met twice per month to complete the 2013 RMPUA. During this period, the Steering Committee recommended specific recharge projects and the implementation plan, received and reviewed the 2013 RMPUA Draft Report, provided comments and finalized the 2013 RMPUA Report. The recommended projects are projected to increase the stormwater recharge in the Chino Basin by approximately 6,900 acre-feet per year at a capital cost of approximately \$57 million. The 2013 RMPUA report was approved by the Watermaster Board in September and filed with the Court in October 2013.
- During this reporting period, approximately 1,368 acre-feet of stormwater and 7,377 acre-feet of recycled water were recharged. No imported water was recharged.
- The Judgment, OBMP Implementation Plan, and Watermaster's Rules and Regulations require the Safe Yield to be re-determined. The redetermination process continued during this reporting period. The evaluation of the Safe Yield began in 2013. The results of the effort were presented during a workshop in July 2013. Watermaster also held a second workshop in August 2013, a third workshop in December 2013, and various other meetings during this reporting period.

### Important Court Hearings and Orders

- OCTOBER 2, 2013 NOTICE OF RULING RE
   WATERMASTER'S EX
   PARTE APPLICATION TO
   CONTINUE HEARING ON
   MOTION TO REVISE
   SECTION 5 OF THE 2013
   RECHARGE MASTER PLAN
   UPDATE AND RESTATED
   JUDGMENT; NOTICE OF
   HEARING
- NOVEMBER 22, 2013—
  NOTICE OF ORDER
  GRANTING EX PARTE
  APPLICATION TO
  SHORTEN TIME ON
  MOTION FOR COURT
  APPROVAL OF A
  TEMPORARY SUBSTITUTE
  RATE FOR PHYSICAL
  SOLUTION TRANSFERS
  UNDER EXHIBIT "G" TO
  THE JUDGMENT; NOTICE
  OF HEARING
- DECEMBER 13, 2013 NOTICE OF RULING RE
  WATERMASTER'S EX
  PARTE APPLICATION TO
  CONTINUE HEARING ON
  MOTION TO REVISE
  SECTION 5 OF THE 2013
  RECHARGE MASTER PLAN
  UPDATE AND RESTATED
  JUDGMENT; NOTICE OF
  HEARING

### 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 OBMP. The monitoring program has been refined over time to satisfy the evolving needs of the Watermaster and Inland Empire Utilities Agency (IEUA), such as new regulatory requirements, and to increase efficiency. The groundwater-level monitoring program supports many Watermaster functions, such as the periodic reassessment of Safe Yield, the monitoring and management of land subsidence, the assessment of Hydraulic Control, the analysis of desalter pumping impacts at private wells, and the triennial re-computation of ambient water quality that is mandated by the Water Quality Control Plan for the Santa Ana Basin. 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 1,000 wells. At about 800 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 200 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 located south of the 60 freeway.

### Groundwater Quality Monitoring

Watermaster initiated a comprehensive groundwater-quality monitoring program as part of the implementation of the OBMP. The groundwater-quality monitoring program consists of the following four components:

- 1. An Annual Key-Well Water-Quality Monitoring Program consisting of 111 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 Archibald South (formerly OIA) volatile organic compound (VOC) plume, the southern region of the Chino Airport Plume, and the Kaiser Steel Plume, and 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 USGS National Water Quality Assessment Program (NAWQA) wells (Archibald 1 and Archibald 2), and two wells (Well 9 and Well 11) owned by the Santa Ana River Water Company.
- 4. A cooperative basin-wide data-collection effort known as the Chino Basin Data Collection (CBDC) program, which relies on municipal producers and other government agencies to supply groundwater-quality data on a cooperative basis. These sources include the Appropriators, DTSC, Regional Water Quality Control Board (RWQCB), US Geological Survey (USGS), the Counties, and other cooperators.



Chino Basin Desalter Authority Plant #2

All groundwater-quality data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. Groundwater-quality data are used by Watermaster for: the biennial State of the Basin report; the triennial ambient water quality update mandated by the Basin Plan; and the demonstration of Hydraulic Control—a maximum benefit commitment in the Basin Plan. Data are also used for 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.

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

### **Groundwater Production Monitoring**

All active wells (except for minimum user wells) are now metered. Watermaster reads the agricultural production data from the meters on a quarterly basis and enters these data into Watermaster's relational database. Minimum user well production is estimated annually by Watermaster, and entered into the database.

### Surface Water Monitoring

Water Quality and Quantity in Recharge Basins. Watermaster and IEUA continually measure the quantity of storm and supplemental water entering the recharge basins. Pressure transducers or staff gauges are used to measure water levels during recharge operations. In addition to these quantity measurements, 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 IEUA. Combining the measured flow data with the respective water qualities enables the calculation of the blended water quality in each recharge basin, the New Yield to the Chino Basin, and the adequate dilution of recycled water.

Surface Water Monitoring in the Santa Ana River. Watermaster measures selected water quality parameters quarterly at two sites along the Santa Ana River (Santa Ana River at River Road and Santa Ana River at Etiwanda). 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. These data are also combined with discharge data from permanent USGS stream gauges, discharge data from publicly owned treatment works (POTWs), and groundwater modeling to assess the state of Hydraulic Control.

### Hydraulic Control

In January 2004, the Regional Water Quality Control Board (RWQCB) amended the Water Quality Control Plan (Basin Plan) for the Santa Ana River Basin 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-nitrogen for the Chino-North and Cucamonga groundwater management zones. The application of the "maximum benefit" objectives relies on Watermaster and IEUA's implementation of a specific program of projects and requirements, which are an integral part of the OBMP. On April 15, 2005, the RWQCB adopted resolution R8-2005-0064, thus approving the Surface Water Monitoring Program and Groundwater Monitoring Program in support of maximum benefit commitments in the Chino-North and Cucamonga Basins.

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 Management Zone to the Santa Ana River or its reduction to a *de minimus* level. In October 2011, the RWQCB indicated that groundwater discharge in an amount less than 1,000 acre-feet per year would be considered *de minimus* by the RWQCB.

In 2012, the Basin Plan was amended to remove all references to the specific monitoring locations and sampling frequencies required for groundwater and surface water monitoring, thus allowing the program to be modified over time, with approval of the Executive Officer of the RWQCB. The Basin Plan amendment was approved by the RWQCB 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 included 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 Amendment required that Watermaster and 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 RWQCB approved, a new surface water monitoring program that reduced the 2004 monitoring program from bi-weekly water quality measurements at 17 sites and direct discharge measurements at six sites, to quarterly water quality sampling at two sites. The new work plan including these changes was adopted by the RWQCB in March 2012.

In December 2013, Watermaster and IEUA submitted an updated Maximum Benefit Monitoring Program Work Plan and Proposed Schedule for Achieving Hydraulic Control to the RWQCB. The updated Work Plan states that Watermaster and IEUA will recalibrate the Chino Basin groundwater model every five years and use the model to estimate groundwater discharge from Chino-North to the Santa Ana River (i.e. annual underflow past the Chino Creek Well Field [CCWF]) and determine whether Hydraulic Control has been achieved.

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

During this reporting period, Watermaster measured 453 manual water levels at 78 private wells throughout the Chino Basin, conducted downloads at 107 wells containing pressure transducers, and collected 29 groundwater quality samples and four surface water quality samples. In addition, the state of Hydraulic Control was evaluated using the re-calibrated 2013 Watermaster groundwater model, which found that Hydraulic Control would be achieved under a projected range of CCWF production volumes. These model results were transmitted to the RWQCB in October 2013.

### Prado Basin Habitat Sustainability Program

A requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent EIR is for Watermaster, IEUA and Orange County Water District (OCWD) to develop an Adaptive Management Plan for the Prado Basin Habitat Sustainability Program (PBHSP). 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. Seventeen monitoring wells at nine sites will be constructed as part of the monitoring program for the PBHSP. During this reporting period, a PBHSP Committee meeting to develop the Adaptive Management Plan was held on September 3, 2013. The IEUA began the bidding process to hire a contractor to perform the CPT and well installation, and continued property acquisition and permitting.

### Chino Basin Groundwater Recharge Program

Watermaster, IEUA, the Chino Basin Water Conservation District (CBWCD), and the San Bernardino County Flood Control District (SBCFCD) 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 throughout the Chino Basin by increasing the recharge of storm water, imported water, and recycled water. The recharge program is regulated under RWQCB Order No. R8-2007-0039 and Monitoring and Reporting Program No. R8-2007-0039.

Recharge Activities. Ongoing recycled water recharge occurred in the Brooks, 7th Street, 8th Street, Turner, Victoria, San Sevaine, Ely, Hickory, RP-3, and Banana Basins this reporting period. Stormwater was recharged at 16 recharge basins across all management zones of the Chino Basin during this reporting period. No imported water was recharged this reporting period.

Monitoring Activities. Watermaster and IEUA collect weekly water quality samples from recharge basins that are actively recharging recycled water and from lysimeters installed within those recharge basins. During this reporting period, approximately 184 recharge basin and lysimeter samples were collected and 27 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 quarterly at a minimum; however, some monitoring wells were sampled more frequently during the reporting period for a total of 97 samples.



Turner Basin 4

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

- 2Q-2013 Quarterly Report, submitted to the RWQCB August 2013
- 3Q-2013 Quarterly Report, submitted to the RWQCB November 2013

### Land Surface Monitoring

In response to the occurrence of land subsidence in the City of Chino, the Watermaster prepared and submitted the MZ-1 Subsidence Management (MZ-1 Plan) to the Court for approval and, in November 2007, the Court ordered its implementation (see Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1). The MZ-1 Plan calls

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

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 include:

- 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 land subsidence 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 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 ASR (aquifer storage recovery) 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.

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

- The continuation of detailed water-level monitoring at wells within the Managed Area and across much of the western portion of Chino Basin. 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 MZ-1 Plan.
- The continuation of monitoring and maintenance at the extensometer facilities including: Ayala Park, Chino Creek, and Daniels sites.
- The collection of InSAR data from radar satellites during August and October 2013, which will be analyzed for ground motion in early 2014.
- The conducting of a ground-level survey at established benchmarks in the area surrounding the Chino Creek Well Field. This was the third survey in this area. These initial surveys are establishing a ground-level "baseline" prior to the start-up of the Chino Creek Well Field.
- The conducting of a ground-level survey at established benchmarks in the Managed Area. This survey was completed near full recovery of groundwater levels at PA-7 and will serve as the "baseline" for comparison should the Long-Term Pumping Test be completed in 2014.
- The installation and conducting of a ground-level survey at new benchmarks in the Pomona Area and across the San Jose Fault zone. This was the first survey in this Area. The initial survey is establishing a ground-level "baseline" for comparison with future surveys.
- Assisted the City of Chino Hills in required quarterly reporting for its DWR grant to support the ASR pilot test.

### Program Element 2: Develop and Implement a Comprehensive Recharge Program

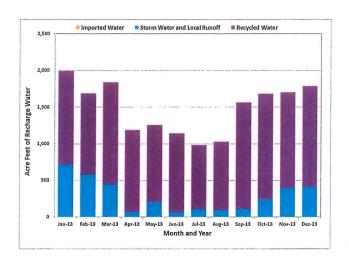
The average stormwater recharge of the Chino Basin Facilities Improvement Program (CBFIP) facilities is approximately 13,000 acre-feet per year, the supplemental "wet" water recharge capacity is approximately 60,600 acre-feet per year, and the in lieu supplemental water recharge capacity ranges from 25,000 to 40,000 acre-feet per year. There is also a demonstrated well

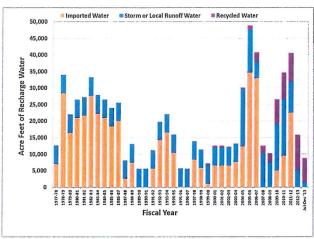
¹The modifier "wet" means actual physical water is being recharged in spreading basins as opposed to the dedication of water from storage or in-lieu recharge.

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

injection capacity of 5,600 acre-feet per year. Current total supplemental water recharge capacity ranges from 91,200 to 106,200 acre-feet per year, which is greater than projected supplemental water recharge capacity required of Watermaster.

Stormwater recharge during this reporting period was approximately 1,368 acre-feet. Recycled water recharge during this reporting period was approximately 7,377 acre-feet. No imported water was recharged during this reporting period. The IEUA and Watermaster recharge permit was amended in fiscal year 2009/10 to allow for underflow dilution and extended the dilution period from a running 60 months to a running 120 months. The significance of this permit amendment was to reduce the amount of imported and storm waters required for dilution. IEUA projects that dilution requirements will likely be met through 2019/20, even if no imported water were available for dilution.





The total amount of supplemental water recharged in MZ-1 since the Peace II Agreement through June 30, 2013 was approximately 41,710 acre-feet, which exceeded the target of the 39,000 acre-feet required by June 30, 2013 (annual requirement of 6,500 acre-feet). In addition, the amount of supplemental water recharged into MZ-1 during the reporting period was approximately 1,917 acre-feet.

The Groundwater Recharge Coordinating Committee (GRCC) met twice during this reporting period, in August 2013 and December 2013. Recharge basin operations and maintenance are discussed during these meetings.

Watermaster and IEUA continued work on the Turner Basins/Guasti Park Recharge Expansion Project in MZ-2. Following completion, anticipated in 2014, the expansion project is projected to recharge an additional 300 acre-feet of storm runoff annually. Also, Watermaster and IEUA continued the Wineville Proof-of-Concept project. Construction of the six test cells was completed in September 2013, and infiltration rate testing occurred in October and November 2013. The final report is expected in early 2014.

During the reporting period, Watermaster and IEUA continued to develop a series of projects outside of the 2013 Amendment to the 2010 Recharge Master Plan (2013 RMPUA) effort that will increase stormwater and supplemental water recharge reliability, and have jointly agreed to fund these projects. Watermaster and IEUA staff's meet monthly to implement and monitor the progress of these projects. Watermaster's share of the cost of these projects was included in the budget adopted by Watermaster for fiscal year 2013/14. Beginning in November 2013, Watermaster and IEUA held monthly Joint Recharge Improvement Projects Committee meetings. The purpose of the meetings was to provide regular project status updates to the Watermaster Parties.

Watermaster continued work on the 2013 RMPUA. The Recharge Master Plan Update Steering Committee (Steering Committee) met twice per month to complete the 2013 RMPUA. During this period, the Steering Committee recommended specific recharge projects and the implementation plan, received and reviewed the 2013 RMPUA Draft Report, provided comments and finalized the 2013 RMPUA Report. The recommended projects are projected to increase the stormwater recharge in the Chino Basin by

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

approximately 6,900 acre-feet per year at a capital cost of approximately \$57 million. The 2013 RMPUA report was approved by the Watermaster Board in September and filed with the Court in October 2013. In December 2013, the Court approved the 2013 RMPUA with the exception of Section 5 of the Final Report that dealt with the accounting for new recharge from Municipal Separate Stormwater Sewer Systems. A facilitated process to resolve the City of Fontana's challenge related to Section 5 was initiated and continued in 2014.

## 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

Construction of the Chino I Desalter Expansion and the Chino II Desalter facilities was completed in February 2006. As currently configured, the Chino I Desalter provides 2.6 million gallons per day (MGD) of treated (air stripping for VOC removal) water from Well Nos. 1-4, 4.9 MGD of treated (ion exchange for nitrate removal) water from Well Nos. 5-15, and 6.7 MGD of treated (reverse osmosis for nitrate and TDS removal) water from Well Nos. 5-15, for a total of 14.2 MGD (15,900 acre-feet per year). The Chino II Desalter provides 4.0 MGD of ion exchange treated water and 6.0 MGD of reverse osmosis treated water from eight additional wells for a total of 10.0 MGD (11,200 acre-feet per year).

Planning continued between the Chino Desalter Authority (CDA) and Western Municipal Water District (WMWD) to expand the Chino II Desalter by 10.5 MGD (11,800 acre-feet per year). To date, more than \$70 million in grant funds have been secured toward this expansion project. Raw water will be drawn from existing CDA II wells, and possible additional new wells, if needed. In addition, a new Chino Creek Desalter Well Field, required for the Hydraulic Control commitment associated with Maximum Benefit, will provide additional raw water to the Chino I Desalter, enabling some existing wells to direct production to the expanded Chino II Desalter facility. Watermaster and the CDA demonstrated continued progress on the project schedule approved by the RWQCB in June 2010. The final completion date of the expansion project is anticipated to be August 2016. However, efforts to support Hydraulic Control can begin upon completion of the Chino Creek Well Field and associated raw water pipeline. Construction of the raw water pipeline is complete and construction of Wells I-16, I-17 and I-18 is substantially complete, with start-up scheduled for January 2014. Wells I-20 and I-21 are currently scheduled to be completed by November 2014.

## 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 Interim Monitoring Program (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.

During this reporting period, Watermaster continued implementation of the MZ-1 Plan. Drawdown at the PA-7 piezometer stayed above the Guidance Level during the reporting period, and very little, if any, permanent compaction was recorded at the Ayala Park Extensometer. The ongoing monitoring program called for by the MZ-1 Plan continues to be implemented.

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

The Land Subsidence Committee (LSC) met in October 2013. Watermaster staff and consultants provided an update on the ongoing monitoring and testing program in the MZ-1 Managed Area, and on the ASR pilot test at Chino Hills Well 16. Watermaster staff and consultants presented the draft 2012 Annual Report of the Land Subsidence Committee for review. The final 2012 Annual Report was filed with the Court in December 2013.

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

### Program Element 7: Develop and Implement a Salt Management Program

### Archibald South Plume

In July 2005, the RWQCB prepared draft Cleanup and Abatement Orders (CAOs) for six parties who were tenants on the Ontario International Airport (OIA) with regard to the Archibald South (trichloroethene [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 parties (Aerojet, Boeing, General Electric [GE], 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 ABGL.

In 2012, the RWQCB issued a draft CAO to the City of Ontario, the City of Upland, and IEUA concerning the former Ontario-Upland Sewage Treatment Plant (Regional Recycling Plant No. 1), located in the City of Ontario. The draft CAO states that these parties are "responsible parties subject to this Order because, as the former and current owners and operators of the WWTP and disposal areas, they are responsible for discharge of wastes that resulted in the presence of trichloroethylene (TCE) in groundwater down-gradient of the WWTP and disposal areas." In part, the draft CAO requires the 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  $\mu$ g/L..." and to report this information to the RWQCB. In addition, the 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."



Upon the direction of the RWQCB, sampling at residential taps in the affected area has been conducted approximately every two years (2007-2008, 2009, 2011, 2013). Several parties recently conducted additional sampling at private water supply wells in the area of the plume, and submitted the results of this sampling to the RWQCB in October 2013. With the completion of this work, all wells 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 plume.

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

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

The RWQCB has indicated that many of the potential responsible parties issued Draft CAOs will work together to prepare a remedial action feasibility study. Discussions among those parties are ongoing to resolve details about how to proceed with that work. Many of the parties are also pursuing various grant funding opportunities to develop a remediation strategy that is long term, regional, and mutually beneficial to the Chino Basin. This includes the existing applications submitted to the United States Bureau of Reclamation.

#### Chino Airport

The County of San Bernardino, Department of Airports is working under RWQCB 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. Beginning in 2007, Tetra Tech, the consultant to the County, conducted several off-site plume characterization studies to delineate the areal and vertical extent of the plume. Since 2003, the County has conducted quarterly monitoring events at their monitoring wells. Conclusions from this monitoring program can be found in reports posted on the RWQCB's GeoTracker website. In November 2013, Tetra Tech submitted the Semiannual Groundwater Monitoring Report, Winter and Spring 2013, Chino Airport Groundwater Assessment, San Bernardino County, California.

Watermaster has also collected samples from dedicated monitoring wells and private wells in and around the Chino Airport plume area. Watermaster has used its calibrated groundwater model to estimate cleanup times and contaminant concentrations in the Chino Creek Well Field (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.

In October 2013, the RWQCB approved a work plan for Tetra Tech to conduct field work for additional characterization of contamination in soil and groundwater associated with the Chino Airport. This work plan includes cone penetrometer tests, sampling of vertical aquifer profiling borings, soil gas probe sampling, high-resolution soil sampling and analysis, the installation of long-term groundwater monitoring wells, the investigation of 20 areas of concern for soil contamination identified in the May 2013 site assessment, and an update to the conceptual site model. The County has not yet performed any groundwater remediation activities.

#### 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, the California Institution for Men, Crown Coach, GE Test Cell and Flatiron, Kaiser Steel, Milliken Landfill, Upland Landfill, and the Stringfellow National Priorities List sites.

## 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 Valley Municipal Water District (TVMWD) Dry-Year Yield (DYY) program continued during the reporting period. By April 30, 2011, all DYY program construction projects and a full "put" and "take" cycle had been completed, leaving the storage account with a zero balance. Watermaster, IEUA, TVMWD, and MWDSC continue to negotiate potential amendments to the current contract.

## Program Element 8: Develop and Implement a Groundwater Storage Management Program; and Program Element 9: Develop and Implement a Storage and Recovery Program (Continued)

#### Safe Yield Redetermination

According to the Judgment, the Chino Basin Safe Yield is to be re-determined periodically. 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 for the prior ten-year period and reset the Safe Yield for the next ten-year period.

The Basin's Safe Yield was initially set by the Judgment at 140,000 acre-feet per year. The number was arrived at after examination of the prior ten years of record, specifically 1965 through 1974. The Judgment provided that the Safe Yield would not be reexamined for at least ten years from 1978; the Safe Yield has not been reevaluated since the time of the Judgment. The OBMP Implementation Plan, which was ordered by the Court in the year 2000, includes the provision to recalculate and reset the Safe yield in 2010/11 using data collected in the period 2001-2010, and every ten years after.

In 2011, Watermaster authorized expenses to update the computer model of the Basin to recalculate the Safe Yield. The model calibration was completed in 2012, and evaluation of the Safe Yield began in 2013. The results of the effort were presented during a workshop in July 2013. Watermaster also held a second workshop in August 2013, a third workshop in December 2013, and various other meetings during this reporting period. The effort is ongoing.

Staff Status Report 2014-1: January to June 2014



#### CHINO BASIN WATERMASTER

Optimum Basin Management Program

### **Highlighted Activities**

- In December 2013, Watermaster and Inland Empire Utilities Agency (IEUA) submitted an updated Maximum Benefit Monitoring Program Work Plan and Proposed Schedule for Achieving Hydraulic Control to the Regional Board. The new Maximum Benefit Monitoring Program Work Plan was adopted by the Regional Water Quality Control Board (RWQCB) in April 2014.
- In January 2014, the RWQCB confirmed that the model results indicated that Hydraulic Control would be achieved under the projected range of the Chino Creek Well Field pumping. At the RWQCB's request, IEUA and Watermaster submitted a plan and schedule to increase desalter production capacity from 32,000 to 40,000 acre-feet per year to the RWQCB on May 30, 2014. The plan included the installation of three new wells—one well location being provisional. In June 2014, the RWQCB accepted the plan, and requested that the final well locations be submitted to the RWQCB by September 30, 2014.
- As a requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent Environmental Impact Report, Watermaster, IEUA and Orange County Water District (OCWD) continued to develop a Prado Basin Habitat Sustainability Program. Included within this program will be the Prado Basin Habitat Sustainability Adaptive Management Plan, the installation of up to 17 monitoring wells at nine separate sites, and vegetative monitoring. During this reporting period, property acquisition and permitting continued.
- Watermaster and IEUA continued work on the Turner Basins/Guasti Park Recharge Expansion Project in MZ-2. The expansion project is projected to recharge an additional 300 acre-feet of storm runoff annually. Also, infiltration testing for the Wineville Proof-of-Concept project was completed in November 2013. The Final Report on the project was published in April 2014, and it stated that the basin showed potential for recharge. Additionally, Watermaster and IEUA continued to develop a series of projects outside of the 2013 Amendment to the 2010 Recharge Master Plan Update (2013 RMPUA) effort that will increase stormwater and supplemental water recharge reliability, and have jointly agreed to fund these projects. Watermaster and IEUA are in the process of finalizing agreements for the joint projects. Watermaster and IEUA continued to hold monthly Joint Recharge Improvement Projects Committee meetings for the purpose of providing regular project status updates to the Parties.

### Important Court Hearings and Orders

APRIL 25, 2014NOTICE OF RULINGS
AND NOTICE OF
HEARING; ORDER
APPROVING SECTION
5 OF WATERMASTER'S
2013 AMENDMENT
TO 2010 RECHARGE
MASTER PLAN UPDATE

- During the reporting period, approximately 2,931 acre-feet of stormwater, 6,216 acre-feet of recycled water, and
   795 acre-feet of imported water were recharged.
- Watermaster and IEUA began to implement the 2013 RMPUA. During the reporting period, Watermaster and IEUA began the process of developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPUA report, prioritizing the construction of these projects relative to the availability of grant funding, and planning subsequent implementation. Implementation of the Lower Day project began, on an accelerated timeline ahead of the other 2013 RMPUA projects because it received a \$750,000 Proposition 84 grant. Implementation of the San Sevaine project continued, also on an accelerated timeline due to its \$750,000 grant. The Recharge Master Plan Update Steering Committee now meets quarterly on the progress of implementing the 2013 RMPUA Projects. Section 5 of the RMPUA report was approved by the Court on April 25, 2014.

### 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 OBMP. The monitoring program has been refined over time to satisfy the evolving needs of Watermaster and IEUA, such as new regulatory requirements, and to increase efficiency. The groundwater-level monitoring program supports many Watermaster functions, such as the periodic reassessment of Safe Yield, the monitoring and management of land subsidence, the assessment of Hydraulic Control, the analysis of desalter pumping impacts at private wells, and the triennial re-computation of ambient water quality that is mandated by the Water Quality Control Plan for the Santa Ana Basin. 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 1,000 wells. At about 800 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 200 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 located south of the 60 freeway.

### Groundwater Quality Monitoring

Watermaster initiated a comprehensive groundwater-quality monitoring program as part of the implementation of the OBMP. The groundwater-quality monitoring program consists of the following four components:

- 1. An Annual Key-Well Water-Quality Monitoring Program consisting of 111 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 Archibald South (formerly OIA) volatile organic compound (VOC) plume, the southern region of the Chino Airport Plume, and the Kaiser Steel Plume, and includes two multi-port MZ-3 monitoring wells.
- 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 USGS National Water Quality Assessment Program (NAWQA) wells (Archibald 1 and Archibald 2), and two wells owned by the Santa Ana River Water Company (Well 9 and Well 11).
- 4. A cooperative basin-wide data-collection effort known as the Chino. Basin Data Collection (CBDC) program, which relies on municipal producers and other government agencies to supply groundwater-quality data on a cooperative basis. These sources include the Appropriators, DTSC, RWQCB, US Geological Survey (USGS), the Counties, and other cooperators.



Santa Ana River

All groundwater-quality data are checked by Watermaster staff and uploaded to a centralized database management system that can be accessed online through HydroDaVESM. Groundwater-quality data are used by Watermaster for: the biennial State of the Basin report; the triennial ambient water quality update mandated by the Basin Plan; and the demonstration of Hydraulic Control—a maximum benefit commitment in the Basin Plan. Data are also used for 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.

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

### Groundwater Production Monitoring

All active wells (except for minimum user wells) are now metered. Watermaster reads the agricultural production data from the meters on a quarterly basis and enters these data into Watermaster's relational database. Minimum user well production is estimated annually by Watermaster, and entered into the database.

### Surface Water Monitoring

Water Quality and Quantity in Recharge Basins. Watermaster and IEUA measure the quantity of storm and supplemental water that enters into recharge basins. Pressure transducers or staff gauges are used to measure water levels during recharge operations. In addition to these quantity measurements, 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 IEUA. Combining the measured flow data with the respective water qualities enables the calculation of the blended water quality in each recharge basin, the New Yield to the Chino Basin, and the adequate dilution of recycled water.

Surface Water Monitoring in the Santa Ana River. Watermaster measures selected water quality parameters quarterly at two sites along the Santa Ana River (Santa Ana River at River Road and Santa Ana River at Etiwanda). 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. These data are also combined with discharge data from permanent USGS stream gauges, discharge data from publicly owned treatment works (POTWs), and groundwater modeling to assess the state of Hydraulic Control.

### Hydraulic Control

In January 2004, the RWQCB amended the Water Quality Control Plan (Basin Plan) for the Santa Ana River Basin 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-nitrogen for the Chino-North and Cucamonga groundwater management zones. The application of the "maximum benefit" objectives relies on Watermaster and IEUA's implementation of a specific program of projects and requirements, which are an integral part of the OBMP. On April 15, 2005, the RWQCB adopted resolution R8-2005-0064, thus approving the Surface Water Monitoring Program and Groundwater Monitoring Program in support of maximum benefit commitments in the Chino-North and Cucamonga Basins.

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 Management Zone to the Santa Ana River or its reduction to a *de minimus* level. In October 2011, the RWQCB indicated that groundwater discharge in an amount less than 1,000 acre-feet per year would be considered *de minimus* by the RWQCB.

In 2012, the Basin Plan was amended to remove all references to the specific monitoring locations and sampling frequencies required for groundwater and surface water monitoring, thus allowing the program to be modified over time, with approval of the Executive Officer of the RWQCB. The Basin Plan amendment was approved by the RWQCB 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 included 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 Amendment required that Watermaster and 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 RWQCB approved, a new surface water monitoring program that reduced the 2004 monitoring program from bi-weekly water quality measurements at 17 sites and direct discharge measurements at six sites, to quarterly water quality sampling at two sites. The new work plan including these changes was adopted by the RWQCB in March 2012.

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

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

In January 2014, in a letter to IEUA and Watermaster, the RWQCB confirmed that the model results indicated that Hydraulic Control would be achieved under the projected range of Chino Creek Well Field pumping. The RWQCB also requested that IEUA and Watermaster submit a plan and schedule to increase desalter production capacity from 32,000 to 40,000 acre-feet per year by May 31, 2014. IEUA and Watermaster submitted the plan and schedule to the RWQCB on May 30, 2014 to install three new wells—one well location being provisional. In June 2014, the RWQCB accepted the plan, and requested that the final well locations be submitted to the RWQCB by September 30, 2014.

During this reporting period, Watermaster measured 455 manual water levels at 79 private wells throughout the Chino Basin, conducted downloads at 100 wells containing pressure transducers, and collected eight groundwater-quality samples and four surface-water quality samples.

### Prado Basin Habitat Sustainability Program

A requirement of Mitigation Measure 4.4-3 from the Peace II Subsequent EIR is for Watermaster, IEUA and Orange County Water District (OCWD) to develop an Adaptive Management Plan for the Prado Basin Habitat Sustainability Program (PBHSP). 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. Seventeen monitoring wells at nine sites will be constructed as part of the monitoring program for the PBHSP. During this reporting period, the PBHSP Committee continued property acquisition and permitting.

### Chino Basin Groundwater Recharge Program

Watermaster, IEUA, the Chino Basin Water Conservation District (CBWCD), and the San Bernardino County Flood Control District (SBCFCD) 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 throughout the Chino Basin by increasing the recharge of storm water, imported water, and recycled water. The recharge program is regulated under RWQCB Order No. R8-2007-0039 and Monitoring and Reporting Program No. R8-2007-0039.

**Recharge Activities.** Ongoing recycled water recharge occurred in the Brooks, 7th Street, 8th Street, Turner, Victoria, San Sevaine, Ely, Hickory, RP-3, and Banana Basins this reporting period. Also during this reporting period, stormwater was recharged at 17 recharge basins across all management zones of the Chino Basin and six recharge basins received imported water.

Monitoring Activities. Watermaster and IEUA collect weekly water quality samples from recharge basins that are actively recharging recycled water and from lysimeters installed within those recharge basins. During this reporting period, approximately 466 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 quarterly at a minimum; however, some monitoring wells were sampled more frequently during the reporting period for a total of 106 samples.



CB-20 Turnout

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

- 4Q-2013 Quarterly Report, submitted to the RWQCB February 2014
- 1Q-2014 Quarterly Report, submitted to the RWQCB May 2014
- 2013 Annual Report, submitted to the RWQCB May 2014

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

### Land Surface Monitoring

In response to the occurrence of land subsidence in the City of Chino, the Watermaster prepared and submitted the MZ-1 Subsidence Management (MZ-1 Plan) to the Court for approval and, in November 2007, the Court ordered its implementation (see Program Element 4: Develop and Implement a Comprehensive Groundwater Management Plan for Management Zone 1). The MZ-1 Plan calls 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 include:

- 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 land subsidence 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 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 ASR (aquifer storage recovery) 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.

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

- The continuation of detailed water-level monitoring at wells within the Managed Area and across much of the western portion of Chino Basin. 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 MZ-1 Plan.
- The continuation of monitoring and maintenance at the extensometer facilities including: Ayala Park, Chino Creek, and Daniels sites.
- The collection of InSAR data from radar satellites during the reporting period, which will be analyzed for ground motion in early 2015.
- Assisted the City of Chino Hills in required quarterly reporting for its DWR grant to support the ASR pilot test.

### Program Element 2: Develop and Implement a Comprehensive Recharge Program

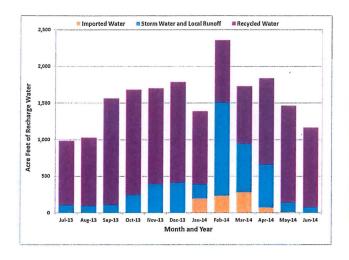
The average stormwater recharge of the Chino Basin Facilities Improvement Program (CBFIP) facilities is approximately 13,000 acre-feet per year, the supplemental "wet" water recharge capacity is approximately 60,600 acre-feet per year, and the in lieu supplemental water recharge capacity ranges from 25,000 to 40,000 acre-feet per year. There is also a demonstrated well injection capacity of 5,600 acre-feet per year. Current total supplemental water recharge capacity ranges from 91,200 to 106,200 acre-feet per year, which is greater than projected supplemental water recharge capacity required of Watermaster.

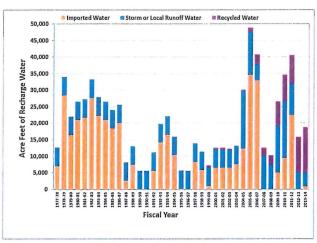
¹The modifier "wet" means actual physical water is being recharged in spreading basins as opposed to the dedication of water from storage or in-lieu recharge.

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

Stormwater recharge during this reporting period was approximately 2,931 acre-feet. Recycled water recharge during this reporting period was approximately 6,216 acre-feet. Approximately 795 acre-feet of imported water was recharged during this reporting period. The IEUA and Watermaster recharge permit was amended in fiscal year 2009/10 to allow for underflow dilution and extend the dilution period from a running 60 months to a running 120 months. The significance of this permit amendment was to reduce the amount of imported and storm waters required for dilution. IEUA projects that dilution requirements will likely be met through 2019/20, even if no imported water were available for dilution.

The total amount of supplemental water recharged in MZ-1 since the Peace II Agreement through June 30, 2014 was approximately 44,446 acre-feet, which is slightly less than the 45,500 acre-feet required by June 30, 2014 (annual requirement of 6,500 acre-feet): the shortfall of 1,054 acre-feet will be carried-over and recharged in MZ-1 in a future year. The amount of supplemental water recharged into MZ-1 during the reporting period was approximately 819 acre-feet.





The Groundwater Recharge Coordinating Committee (GRCC) met once during this reporting period, in March 2014. Recharge basin operations and maintenance are discussed during these meetings.

Watermaster and IEUA continued work on the Turner Basins/Guasti Park Recharge Expansion Project in MZ-2. Following completion, anticipated in 2014, the expansion project is projected to recharge an additional 300 acre-feet of storm runoff annually. Infiltration testing for the Wineville Proof-of-Concept project was completed in November 2013. The Final Report on the project was published in April 2014, and it stated that the basin showed potential for recharge.

During the reporting period, Watermaster and IEUA continued to develop a series of projects outside of the 2013 Amendment to the 2010 Recharge Master Plan Update (2013 RMPUA) effort that will increase stormwater and supplemental water recharge reliability 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 year 2013/14. Watermaster and IEUA are in the process of finalizing agreements for the joint projects. Watermaster and IEUA continued to hold monthly Joint Recharge Improvement Projects Committee meetings for the purpose of providing regular project status updates to the Parties.

Pursuant to the October 2013 Court Order authorizing Watermaster and IEUA to implement the 2013 RMPUA, Watermaster and IEUA have begun implementation. During the reporting period, Watermaster and IEUA began the process of developing agreements to construct the storm and supplemental water recharge projects listed in Table 8-2c of the 2013 RMPUA report, prioritizing the construction of these projects relative to the availability of grant funding, and planning subsequent implementation. Implementation of the Lower Day project began, on an accelerated timeline ahead of the other 2013 RMPUA projects because it received a \$750,000 Proposition 84 grant. Implementation of the San Sevaine project continued, also on an accelerated timeline due to its \$750,000 grant. The Recharge Master Plan Update Steering Committee (Steering Committee) now meets quarterly on the progress of implementing the 2013 RMPUA Projects. Section 5 of the RMPUA report was approved by the Court on April 25, 2014.

## 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

Construction of the Chino I Desalter Expansion and the Chino II Desalter facilities was completed in February 2006. As currently configured, the Chino I Desalter provides 2.6 million gallons per day (MGD) of treated (air stripping for VOC removal) water from Well Nos. 1-4, 4.9 MGD of treated (ion exchange for nitrate removal) water from Well Nos. 5-15, and 6.7 MGD of treated (reverse osmosis for nitrate and TDS removal) water from Well Nos. 5-15 for a total of 14.2 MGD (15,900 acre-feet per year). The Chino II Desalter provides 4.0 MGD of ion exchange treated water and 6.0 MGD of reverse osmosis treated water from eight additional wells for a total of 10.0 MGD (11,200 acre-feet per year).

Planning continued between the Chino Desalter Authority (CDA) and Western Municipal Water District (WMWD) to expand the Chino II Desalter by 10.5 MGD (11,800 acre-feet per year). To date, more than \$70 million in grant funds have been secured toward this expansion project. Raw water will be drawn from existing CDA II wells, and possible additional new wells, if needed. In addition, a new Chino Creek Desalter Well Field, required for the Hydraulic Control commitment associated with Maximum Benefit, will provide additional raw water to the Chino I Desalter, enabling some existing wells to direct production to the expanded Chino II Desalter facility. Watermaster and the CDA demonstrated continued progress on the project schedule RWQCB approved by the RWQCB in June 2010. The final completion date of the expansion project is anticipated to be August 2016. However, efforts to support Hydraulic Control can begin upon completion of the Chino Creek Well Field and associated raw water pipeline. Construction of the raw water pipeline of Wells I-16, I-17 and I-18 is complete. The CDA received its modification of the Chino I wellfield operating permit from the California Department of Public Heath for Wells 1-16 and 1-17. Well 1-18 is not currently planned to be placed into operation due to high VOC concentrations. A nine-month pilot test for a treatment system for removal of TCE, TCP and nitrate is planned. Equipping designs of Wells 1-20 and 1-21 are complete, and the well equipping construction is planned for late 2014. Three additional wells are planned outside of the Chino Creek Well Field, which are necessary to meet the requirement for the CDA to produce 40,000 acre-feet of groundwater per year. A draft well siting study was submitted in January 2014. Property acquisition for these three sites is in progress.

## 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 Interim Monitoring Program (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.

During this reporting period, Watermaster continued implementation of the MZ-1 Plan. Drawdown at the PA-7 piezometer stayed above the Guidance Level during the reporting period, and very little, if any, permanent compaction was recorded at the Ayala Park Extensometer. The ongoing monitoring program called for by the MZ-1 Plan continues to be implemented.

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

The Land Subsidence Committee (LSC) met in March and June 2014. Watermaster staff and consultants provided an update on the ongoing monitoring and testing program in the Areas of Subsidence Concern, and on the ASR pilot test at Chino Hills Well 16. Watermaster consultants reviewed the draft scope and budget for the Land Subsidence Monitoring Program for fiscal year 2014/15 and the draft 2013 Annual Report of the Land Subsidence Committee. Watermaster staff recommended that the MZ-1 Subsidence Management Plan be updated.

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

### Program Element 7: Develop and Implement a Salt Management Program

#### Archibald South Plume

In July 2005, the RWQCB prepared draft Cleanup and Abatement Orders (CAOs) for six parties who were tenants on the Ontario International Airport (OIA) with regard to the Archibald South (trichloroethene [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 parties (Aerojet, Boeing, General Electric [GE], 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 ABGL.

In 2012, the RWQCB issued a draft CAO to the City of Ontario, the City of Upland, and IEUA concerning the former Ontario-Upland Sewage Treatment Plant (Regional Recycling Plant No. 1), located in the City of Ontario. The



Groundwater Quality Sampling

draft CAO states that these parties are "responsible parties subject to this Order because, as the former and current owners and operators of the WWTP and disposal areas, they are responsible for discharge of wastes that resulted in the presence of trichloroethylene (TCE) in groundwater down-gradient of the WWTP and disposal areas." In part, the draft CAO requires the 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  $\mu$ g/L..." and to report this information to the RWQCB. In addition, the 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."

Upon the direction of the RWQCB, sampling at residential taps in the affected area has been conducted approximately every two years (2007-2008, 2009, 2011, 2013-2014). Several parties recently conducted additional sampling at private water supply wells in the area of the plume, and submitted the results of this sampling to the RWQCB in October 2013 and May 2014. With the completion of this work, all wells 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 plume.

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

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

The RWQCB has indicated that many of the potential responsible parties issued Draft CAOs will work together to prepare a remedial action feasibility study. Discussions among those parties are ongoing to resolve details about how to proceed with that work. Many of the parties are also pursuing various grant funding opportunities to develop a remediation strategy that is long-term, regional, and mutually beneficial to the Chino Basin. This includes the existing applications submitted to the United States Bureau of Reclamation.

### Chino Airport

The County of San Bernardino, Department of Airports is working under RWQCB 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. Beginning in 2007, Tetra Tech, the consultant to the County, conducted several off-site plume characterization studies to delineate the areal and vertical extent of the plume. Since 2003, the County has conducted quarterly monitoring events at their monitoring wells. Conclusions from this monitoring program can be found in reports posted on the RWQCB's GeoTracker website. In March 2014, Tetra Tech submitted the Semiannual Groundwater Monitoring Report, Summer and Fall 2013, Chino Airport Groundwater Assessment, San Bernardino County, California.

Watermaster has also collected samples from dedicated monitoring wells and private wells in and around the Chino Airport plume area. Watermaster has also used its calibrated groundwater model to estimate cleanup times and contaminant concentrations in the Chino Creek Well Field. 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.

In October 2013, the RWQCB approved a work plan for Tetra Tech to conduct field work for additional characterization of contamination in soil and groundwater associated with the Chino Airport. In April 2014, the County and Tetra Tech submitted a Mid-Year Project Status Report describing the progress in implementing the work plan, which has included the completion of cone penetrometer tests and the sampling of vertical aquifer profiling borings. The remainder of the work described in the work plan, which includes the installation of long-term groundwater monitoring wells, the investigation of 20 areas of concern for soil contamination, and an update to the conceptual site model, is expected to be completed by December 2014. The County has not yet performed any groundwater remediation activities.

### 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, the California Institution for Men, Crown Coach, GE Test Cell and Flatiron, Kaiser Steel, Milliken Landfill, Upland Landfill, and the Stringfellow National Priorities List sites.

## 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 Valley Municipal Water District (TVMWD) Dry-Year Yield (DYY) program continued during the reporting period. By April 30, 2011, all DYY program construction projects and a full "put" and "take" cycle had been completed, leaving the storage account with a zero balance. Watermaster, IEUA, TVMWD, and MWDSC continue to negotiate potential amendments to the current contract.

#### 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 (Continued)

#### Safe Yield Redetermination

According to the Judgment, the Chino Basin Safe Yield is to be re-determined periodically. 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 for the prior ten-year period and reset the Safe Yield for the next ten-year period.

The Basin's Safe Yield was initially set by the Judgment at 140,000 acre feet per year. The number was arrived at after examination of the prior ten years of record, specifically 1965 through 1974. The Judgment provided that the Safe Yield would not be reexamined for at least ten years from 1978; the Safe Yield has not been reevaluated since the time of the Judgment. The OBMP Implementation Plan, which was ordered by the Court in the year 2000, includes the provision to recalculate and reset the Safe yield in 2010/11 using data collected in the period 2001-2010, and every ten years after.

In 2011, Watermaster authorized expenses to update the computer model of the Basin to recalculate the Safe Yield. The model calibration was completed in 2012, and evaluation of the Safe Yield began in 2013. The effort continues. During this reporting period, a fourth workshop was held in January 2014. There were also two technical group meetings, in January and March 2014, in which Watermaster's modelers were made available to meet with the Parties' experts in order to better understand the model. Following the workshops, the Appropriative Pool sent a letter to Watermaster in April 2014 which stated that the model is sound, and in the letter, the Pool also provided some recommendations for moving forward. Also, Watermaster filed a status report with the Court in April 2014, updating the Court on the process.

#### CHINO BASIN WATERMASTER

# **NOTICE**

OF

**APPLICATION(S)** 

RECEIVED FOR

**RECHARGE** 

Date of Notice:

February 5, 2016

This notice is to advise interested persons that the attached application(s) will come before the Watermaster Board on or after 30 days from the date of this notice.

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# **CHINO BASIN WATERMASTER** I. CONSENT CALENDAR D. SAN ANTONIO WATER COMPANY - APPLICATION FOR RECHARGE

#### NOTICE OF APPLICATION(S) RECEIVED

Date of Application: January 22, 2016 Date of this notice: February 5, 2016

Please take notice that the following Application has been received by Watermaster:

Notice of Application for Recharge – Notice of Application for Recharge - On January 22, 2016, San Antonio Water Company submitted an Application for Recharge for up to 200.000 acre-feet to be recharged into Montclair 2, 3, and 4, and Brooks recharge basins.

Appropriative Pool:

February 11, 2016

Non-Agricultural Pool:

February 11, 2016

Agricultural Pool:

February 11, 2016

This Application will be scheduled for consideration by the Advisory Committee no earlier than thirty days from the date of this notice and a minimum of twenty-one calendar days after the last pool committee reviews it.

After consideration by the Advisory Committee, the *Application* will be considered by the Board.

Unless the *Application* is amended, parties to the Judgment may file *Contests* to the *Application* with Watermaster *within seven calendar days* of when the last pool committee considers it. Any *Contest* must be in writing and state the basis of the *Contest*.

Watermaster address:

Chino Basin Watermaster 9641 San Bernardino Road

Rancho Cucamonga, CA 91730

Tel: (909) 484-3888 Fax: (909) 484-3890

#### CHINO BASIN WATERMASTER

### NOTICE OF APPLICATION FOR RECHARGE

Notification Dated: February 5, 2016

A party to the Judgment has submitted a proposed Application for Recharge for Watermaster approval. Unless contrary evidence is presented to Watermaster that overcomes the rebuttable presumption provided in Section 5.3(b)(iii) of the Peace Agreement, Watermaster must find that there is "no material physical injury" and approve the Application. Watermaster staff is not aware of any evidence to suggest that this recharge would cause material physical injury and hereby provides this notice to advise interested persons that this Application will come before the Watermaster Board on or after 30 days from the date of this notice. The attached staff report will be included in the meeting package at the time the Application begins the Watermaster process (comes before Watermaster).



#### 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:

February 11, 2016

TO:

**Pool Committee Members** 

SUBJECT:

San Antonio Water Company Application for Recharge

#### SUMMARY

Issue: On January 22, 2016, San Antonio Water Company submitted an Application for Recharge for up to 200.000 acre-feet to be recharged into Montclair 2, 3, and 4, and Brooks recharge basins.

Recommendation: Approve San Antonio Water Company's Application for Recharge and direct Watermaster staff to account for this supplemental water recharged in San Antonio Water Company's existing Local Supplemental Storage account.

Financial Impact: None.

**Future Consideration** 

Appropriative Pool: February 11, 2016 Approval Non-Agricultural Pool: February 11, 2016 Approval Agricultural Pool: February 11, 2016 Approval Advisory Committee: March 17, 2016 Approval Watermaster Board: March 24, 2016 Approval

ACTIONS: February 11, 2016 – Appropriative Pool – February 11, 2016 - Non-Agricultural Pool -February 11, 2016 - Agricultural Pool March 17, 2016 – Advisory Committee – March 24, 2016 – Watermaster Board –

#### **BACKGROUND**

The Court approved the Peace Agreement, the OBMP Implementation Plan and the goals and objectives identified in the OBMP Phase I Report on July 13, 2000, and ordered Watermaster to proceed in a manner consistent with the Peace Agreement. Under the Peace Agreement, Watermaster approval is required for Applications to store, recapture, recharge or transfer water, as well as for Applications for credits or reimbursements and storage and recovery programs.

Where there is no Material Physical Injury, Watermaster must approve the application. Where the request for Watermaster approval is submitted by a Party to the Judgment, there is a rebuttable presumption that most of the proposed activities do not result in Material Physical Injury to a Party to the Judgment or the Basin (Storage and Recovery Programs do not have this presumption).

In December 2011, San Antonio Water Company submitted an Application for a Local Storage Agreement. The Application identified the maximum quantity of the storage account to be 2,000.00 acrefeet to be placed into a Local Supplemental Storage Account. The Application stated the purpose of storing the water is to preserve pumping right for a changed future potential use. The Application stated that the method of placement in storage is via percolation/recharge and an Application for Recharge was included. The Form 2 stated that the Upland and Montclair 1 recharge basins would be utilized, for up to 1,500.000 acre-feet.

The Application for Recharge was approved by the Board in February 2012, and Watermaster was directed to account for this supplemental water recharged in San Antonio Water Company's existing Local Supplemental Storage account. San Antonio Water Company was informed it may begin recharging the water as described in the application. However, San Antonio Water Company is recharging the water at some risk because Watermaster's approval of the storage element of the Local Supplemental Storage Agreement is subject to further Watermaster determinations concerning: (1) the determination of available capacity for Local Supplemental Storage Agreements pursuant to Section 2 of the Second Amendment to the Peace Agreement (100,000 acre-foot cap); (2) the establishment of rules concerning the priority among competing applications for Local Supplemental Storage; and (3) the general terms and conditions applicable to Storage and Preemptive Replenishment in connection with the Recharge Master Plan. Accordingly until these determinations have been made, the storage and recovery of any water recharged by San Antonio Water Company is not guaranteed. Moreover, no Party with a pending application for Local Supplemental Storage Agreements will be prejudiced by Watermaster's conditional action on San Antonio Water Company's application.

#### DISCUSSION

On January 22, 2016, San Antonio Water Company submitted an Application for Recharge for up to 200.000 acre-feet. The Application states that the method of recharge is percolation into Montclair 2, 3, and 4, and Brooks recharge basins. (See Attachment 1.) The Application identifies the source of water to be diversion of the Company's surface water rights from the San Antonio Creek. Attached to the Application are the Draft 2015 San Antonio Canyon Watershed Sanitary Survey Update, an excerpt from the Opinion of Water Rights, and a surface water supply schematic for Chino Basin Recharge. (See Attachments 2, 3, and 4.) On February 2, 2016, Watermaster received a letter from San Antonio Water Company titled "Application for Recharge – Statement of Water Rights in San Antonio Creek," stating that water stream flows not captured by San Antonio Water Company flow outside of the Chino Basin, therefore making the water supplemental water to the Chino Basin. (See Attachment 5.)

If and when approved, San Antonio Water Company intends to potentially use its pending Local Storage Agreement to store this water. In the meantime, consistent with that of other Parties that have submitted Applications for Recharge that have pending Applications for Local Storage Agreements, the water will be placed in its Local Supplemental Storage account and will be tracked by Watermaster Staff. Per the Peace II Agreement and 2015 Safe Yield Reset Agreement awaiting the Court's determination, losses will

be applied to all water placed into a Local Supplemental Storage Account in a similar manner to all other water in storage. The total volume held in local storage accounts is pending a future determination, and the recommendation as written is intended to be consistent with prior recharge and storage application recommendations.

If this water is placed into storage (rather than produced during the same production year), an Application to Recapture Water in Storage will need to be submitted, prior to recapture. If the method and location of recapture from storage is to exchange with other groundwater producers in the Basin, when such an exchange is proposed, San Antonio Water Company and the other Party will need to submit appropriate water transfer forms, which include the recapture plan.

WEI performed a Material Physical Injury analysis of the Application for Recharge. WEI prepared a letter, dated February 4, 2016, which states that there will be no Material Physical Injury from the proposed Application for the recharge of San Antonio Creek water. (See Attachment 6.) The letter states that Watermaster should require the San Antonio Water Company to monitor the amount of water discharged to the San Antonio Creek, as well as sample and analyze the water quality of the San Antonio Creek water that they discharge. These data should be provided to Watermaster and Inland Empire Utilities Agency, as they are required for Watermaster accounting, regulatory reporting, and other groundwater management purposes. And, as with all water discharged into channels within the Chino Basin, San Antonio Water Company will need to coordinate their proposed diversions for recharge with the Inland Empire Utilities Agency, Chino Basin Water Conservation District, and Watermaster to ensure that their recharge activities do not interfere with other recharge operations, and that their water will be diverted and accounted for as proposed.

#### **ATTACHMENTS**

- 1. Form 2: Application for Recharge
- 2. Draft 2015 San Antonio Canyon Watershed Sanitary Survey Update
- 3. Excerpt from Opinion of Water Rights
- 4. Surface Water Supply Schematic for Chino Basin Recharge
- February 2, 2016 letter from San Antonio Water Company to Watermaster: "Application for Recharge – Statement of Water Rights in San Antonio Creek"
- 6. February 4, 2016 letter from WEI to Watermaster: "Analysis of Material Physical Injury for the San Antonio Water Company (SAWC) Recharge Application, as submitted to the Chino Basin Watermaster on January 22, 2016"

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# San Antonio Water Company

Incorporated October 25, 1882

Serving the original Ontario Colony lands

January 22, 2016

Ms. Danni Maurizio Chino Basin Watermaster 9641 San Bernardino Road Ranch Cucamonga, CA 91730

Subject: Application for Recharge

Dear Danni:

Enclosed are the forms for the San Antonio Water Company's application for recharge into Chino Basin Montclair 2, 3, 4 and Brooks Basin.

Please process our application for approval. If you have any questions, please call me at 909.982.4107.

Sincerely,

Charles Moorrees General Manager/CEO /cm

Cc:

EUiloa/CBWCD

File

#### APPLICATION FOR RECHARGE

APPLICANT	
SAN ANTONIO WATER CO. Name of Party	1 - 22 - 16 Date Requested Date Approved
139 N. EUCLID AVE. Street Address	ZOO Acre-feet Amount Approved Acre-feet
UPLAND CA 91786 City State Zip Code	Projected Rate of Projected Duration of Recharge
Telephone: 969. 982. 4107	Facsimile: 909.920.3047
SOURCE OF SUPPLY	
Water from:  [ ] State Water Project [ ] Colorado River [ ] Local Supplemental Source:  [ ] Recycled Water	PONIO CREEK
·	WATER COMPANY'S
SURFACE WATE	R RIGHTS
METHOD OF RECHARGE	
[X] PERCOLATION Basin Name	· MODITCLAIR BASIN 2, 3, 4 & BROOKE'S BASIN
Location	
[ ] INJECTION Well Numbe	
Location (attach map	)
[ ] EXCHANGE Facility Name	e
Share of Safe Yield	d
Carry Over Righ	t
Water in Storage	
·	
WATER QUALITY AND WATER LEVELS	
What is the existing water quality and what are the existing affected?  EXCEUENT WO FROM SA CRE	JEK WARERSHED - "PRAFF"
SANITARY SURVEY 2015 AFTA	CHED. WATER LEVELS MZ-1

July 2001

#### **MATERIAL PHYSICAL INJURY**

may be caused by the action covered by the applicati	ical Injury to a party to the Judgment or the Basin that ion? Yes [ ] No [X]
If yes, what are the proposed mitigation measures, if action does not result in Material Physical Injury to a property of the second sec	any, that might reasonably be imposed to ensure that the party to the Judgment or the Basin?
ADDITIONAL INFORMATION ATTACHED	Yes [X] No [ ]
Applieant  TO BE COMPLETED BY WATERMASTER:	· DRAFT SA CREGK WATERSHED SANITARY SURVEY 2015 · OPINION OF WATER RIGHTS · CONVEYANCE SCHEMATIC FUR RECHARGE
	- SURVEY 2015 • OFILHOW OF WATER RIGHTS • CONVEYANCE SCHEMATIC FUR RECHARGE
TO BE COMPLETED BY WATERMASTER:	- SURVEY 2015  • OPINION OF WATER RIGHTS  • CONVEYANCE SCHEMATIC FOR RECHARGE  JRAL POOL:
TO BE COMPLETED BY WATERMASTER:  DATE OF APPROVAL FROM NON-AGRICULTU	- SURVEY 2015  • OPINION OF WATER RIGHTS  • CONVEYANCE SCHEMATIC FOR RECHARGE  JRAL POOL:  POOL:

DATE OF ADVISORY COMMITTEE APPROVAL:

DATE OF BOARD APPROVAL: _____ Agreement #____

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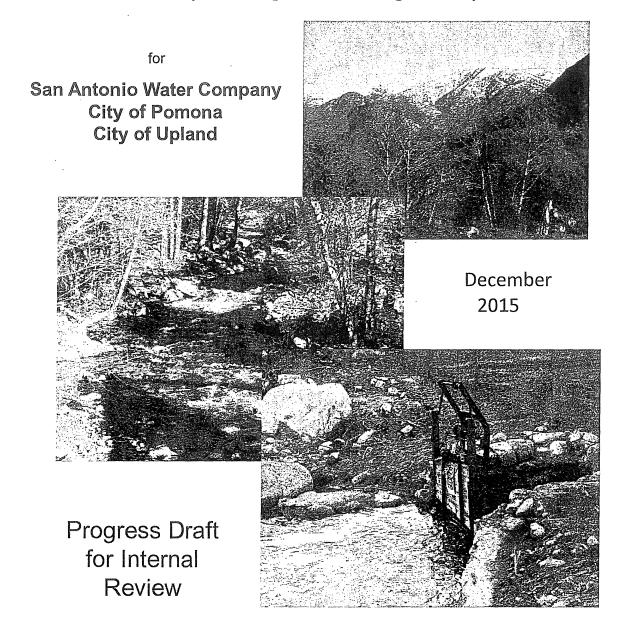
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## 2015 SAN ANTONIO CANYON WATERSHED SANITARY SURVEY UPDATE

(covering 2011 through 2015)



#### Joseph C. Reichenberger, P.E., BCEE

Consulting Civil and Environmental Engineer
Registered Professional Engineer: CA, NV, NM, AZ, HI
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Phone (626)-437-2571
Fax (626)-571-6099

Project Number 15-02

# 2015 SAN ANTONIO CANYON WATERSHED SANITARY SURVEY UPDATE

(covering 2011 through 2015)
Progress Review Draft



for

San Antonio Water Company
City of Pomona
City of Upland

November 2015

#### Joseph C. Reichenberger, P.E., BCEE

Consulting Civil and Environmental Engineer Registered Professional Engineer: CA, NV, NM, AZ, HI

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Project Number 15-02

#### ABBREVIATIONS AND ACRONYMS

AWWA American Water Works Association

AFY Acre-ft per year

ANF Angeles National Forest

BOD 5-Day Biochemical Oxygen Demand

CaCO₃ Calcium Carbonate (standard for expressing alkalinity)

CDPH California Department of Public Health

cfs Cubic feet per second

CCR Consumer Confidence Report
COD Chemical Oxygen Demand

CT Concentration*time product (mg-min/L)

DBP Disinfection by-product

DBPR Disinfectant and Disinfection by-products Rule
DF&W California Department of Fish and Wildlife

DWSAP Drinking Water Source Assessment and Protection

GPS Global Positioning System

HAA5 Five Regulated Haloacetic Acids
HHS U. S. Health and Human Services

HP horsepower

HPC Heterotrophic Plate Count

IESWTR Interim Enhanced Surface Water Treatment Rule

kWh kilowatt hour

LAC Los Angeles County

LRAA Locational Running Annual Average

LT2ESWTR Long Term 2 Enhanced Surface Water Treatment Rule

MBAS Methylene Blue Active Substances (surfactants)

MBHA Mount Baldy Homeowners Association

MBRD Mount Baldy Ranger District

MBSA Mount Baldy Ski Area
MBV Mount Baldy Village

MCL Maximum Contaminant Level

MG million gallons

mgd million gallons per day

MSL Mean sea level

MWDSC Metropolitan Water District of Southern California

NTU Nephelometric Turbidity Unit
PBE Physical Barrier Effectiveness
PCA Possible Contaminating Activity

J. C. Reichenberger PE BCEE Consulting Engineer

**DRAFT November 2015** 

15-02

#### ABBREVIATIONS AND ACRONYMS (CONT'D)

PFP Pedley Filter (Filtration) Plant

PUSD Pomona Utility Services Department,

Water Operations Division

PVPA Pomona Valley Protective Association

RAA Running Annual Average

RWQCB Regional Water Quality Control Board

SACMSC San Antonio Canyon Mutual Service Company SACWTF San Antonio Canyon Water Treatment Facility

SASF San Antonio Spreading Facility
SAWCO San Antonio Water Company

SBC San Bernardino County

SUVA Specific ultra-violet light absorption
SWTR Surface Water Treatment Rule

TDS Total Dissolved Solids

THM Trihalomethane

TOC Total Organic Carbon
TTHM Total Trihalomethanes

TVMWD Three Valleys Municipal Water District

UPD Upland Water Department

UV254 Ultraviolet Light Absorption at 254 nm

WFA Water Facilities Authority
WSS Watershed Sanitary Survey
USACE U. S. Army Corps of Engineers
USFS United States Forest Service
USGS United States Geological Survey

#### **SECTION 1**

#### INTRODUCTION

#### **BACKGROUND**

For water suppliers, using surface water, Title 22, California Code of Regulations Article 7, Sanitary Surveys states:

§64665 Watershed Requirements.

- (a) All suppliers shall have a sanitary survey of their watershed(s) completed at least every five years. The first survey shall be completed by January 1, 1996
- (b) A report of the survey shall be submitted to the State Board not later than 60 days following completion of the survey.
- (c) The survey and report shall include physical and hydrogeologic description of the watershed, a summary of source water quality monitoring data, a description of activities and sources of contamination, a description of any significant changes that have occurred since the last survey which could affect the quality of the source water, a description of the watershed control and management practices, an evaluations of the system's ability to meet requirements of this chapter, and recommendations for corrective actions.

§64665 Additional Requirements.

A supplier shall comply with the sanitary survey requirements specified in §64650(f)(1). [LT2ESWTR]

A Watershed Sanitary Survey (WSS) of San Antonio Canyon was conducted for the City of Pomona, San Antonio Water Company (SAWCO), and the City of Upland (Agencies) in 1995 by Parsons and submitted to the State Department of Health Services – Drinking Water Field Operations Branch, (now the Department of Public Health), on December 19, 1995. The three water suppliers rely on San Antonio Creek as a water source for a portion of their drinking water supply. Preparation and format of the sanitary survey was based on the Watershed Sanitary Survey Guidance Manual, a 1993 publication of the California-Nevada Section of the American Water Works Association (AWWA). The 1995 WSS was updated in 2000, also by Parsons and the update included the EPA-mandated Drinking Water Source Assessment Protection Program (DWSAP) analysis. The California Department of Public Health (CDPH), the current name of the agency, Los Angeles and San Bernardino County offices performed the reviews of the previous documents. The 1995 and 2000 WSSs were prepared by Joseph C. Reichenberger PE while associated with the Parsons Corporation, Pasadena, CA.

The WSS was to be updated again in 2005. Most of the data was compiled by the City of Pomona, but was not submitted. The 2010 Update (completed in August 2011), also prepared under the direction of Joseph C. Reichenberger, PE BCEE, as an

independent consultant, included data generally from 2000 through 2010. This 2015 WSS will include data from 2011 through the end of 2015 and prepared by Joseph C. Reichenberger, PE BCEE.

#### **OBJECTIVES**

The WSS serves as a tool in understanding the interaction between physical characteristics of the watershed and the water supply system, any changes in water quality over time, potential contaminant sources in the watershed, and current watershed control and management practices. It provides a basis for development of strategies to monitor and maintain water quality and control potential contamination in future years.

The DWSAP, which was prepared in 2000, included a delineation of the area around a drinking water source through which contaminants might move and reach that drinking water supply; an inventory of possible contaminating activities (PCAs) that might lead to the release of microbiological or chemical contaminants within the delineated area; and a determination of the PCAs to which the drinking water source is most vulnerable. This DWSAP is in the 2000 WSS and will not be updated, or included, in this 2015 WSS update as there is no change in conditions.

#### CONDUCT OF THE STUDY

Joseph C. Reichenberger, P.E., BCEE conducted the 2015 WSS update of San Antonio Canyon for the Agencies. On May 13, 2015, a kickoff meeting, held in conjunction with the San Antonio Canyon Watershed Committee meeting was held at the City of Pomona Water Utility Department with representatives from Pomona, the San SAWCO and the San Antonio Mutual Services Company. At the kickoff meeting, the recommendations from the 2010 WSS were reviewed and a discussion on a proposed Environmental Impact Report Notice of Preparation (NOP) by Los Angeles County Department of Public Works which would allow hauling of potable water to parcels which otherwise have no access to a public water system or groundwater. There were a number of parcels in San Antonio Canyon that were identified in the NOP that could haul water if the proposal was adopted by the County Board of Supervisors. The Watershed Committee was concerned because this would lead to development of the parcels adjacent to the stream and the installation of more on-site wastewater disposal systems. This proposal would have an adverse effect on future water quality in the area.

The Watershed Committee provided comments on May 25, 2015 to Los Angeles County in response to the NOP and concluded with the following:

Due to the fact that San Antonio Creek is a direct source of drinking water, the threat to water quality is significant, and the fire danger extreme, we strongly urge the County remove the parcels in the south half of the Mount San Antonio and the entire Mount Baldy quadrangle from further consideration under the Hauled Water Initiative

On January 12, 2011, Tommy Hudspeth from San Antonio Water Company (SAWCO) met Mr. Reichenberger at the 60/40 weir box and diversion point into the pipelines leading to SAWCO (City of Upland) and the City of Pomona. On that same day, Mr. Reichenberger was able to drive the watershed from the intake to the Mt. Baldy Ski Lift Parking Lot and to the Ice House Canyon Parking Lot. The stream had significant flow and it was not advisable to take a conventional sedan across the creek to view the cabins in Barrett Canyon and elsewhere. The Mt. Baldy Ranch RV Park

adjacent to Glendora Ridge Road at Cow Canyon Saddle was also driven by. There was little activity at the RV park this time of the year.

On January 12, 2011, Mr. Reichenberger met with Colin Sked of the San Antonio Canyon Mutual Service Company (SACMSC) to discuss the wastewater systems the service company maintains.

On January 19, 2011, Mr. Reichenberger met with Nick Capogni at the City of Pomona's Pedley Water Filtration Plant to discuss plant operational changes and physical changes that have occurred since the plant was upgraded in 1998. On that same day, Mr. Reichenberger met with Mark Wiley and Nate Pendergraft at the Mt. San Antonio Water Treatment Plant and went over plant operation and physical changes.

Mr. Reichenberger contacted the California Department of Public Health (CDPH) Los Angeles, (Jeff O'Keefe), and San Bernardino office (Sean McCarthy) on January 31, 2011 to identify any concerns or issues the CDPH might have.

On March 18, 2011, Mr. Reichenberger met with L'Tanga Watson, District Ranger, and James Garner, Special Uses Administrator, for San Gabriel River District of the Angeles National Forest to solicit their input into the WSS and provide updates on the USFS activities.

On April 6, 2011, Mr. Reichenberger met with the Watershed Committee at their regular meeting at the SAWCO office and discussed the findings of the WSS as of that date.

On June 23, 2011, Mr. Reichenberger had a telephone conference with Ms. Teri Layton and Mr. Charles Moorrees of SAWCO to discuss the pre-final draft.

The products of these discussions are incorporated into the WSS update.

#### ORGANIZATION OF THE REPORT

This WSS is organized as follows:

Section 2 contains a summary of the 2010 WSS including its findings, conclusions, and recommendations

Section 3 contains a summary of the principal activities/actions/facilities within the watershed and treatment facilities that have occurred since the 2010 WSS

Section 4 presents a summary of the water quality data from year 2011 through 2015 and comments on the changes if any.

Section 5 presents a discussion of principal upcoming regulations and any potential issues meeting those regulations

Section 6 presents a summary of findings, conclusions, and recommendations resulting from this 2015 WSS

#### **AUTHORIZATION AND ACKNOWLEDGEMENTS**

The City of Pomona Water Utilities Department authorized Joseph C. Reichenberger P.E. BCEE, Monterey Park, CA, to prepare the WSS update through a professional services agreement dated October 12, 2015 based on a proposal presented to the City by Mr. Reichenberger dated February 8, 2015. The work was prepared under the direction of Joseph C. Reichenberger, P.E. BCEE. The work could not have been

completed without the cooperation of Nick Capogni, Water Treatment Supervisor, and Damian Martinez, Sr. Management Analyst, from the City of Pomona; Ms. Rosemary Hoerning, Public Works Director and Nate Pendergraft, City of Upland; and Charles Moorrees, General Manager, Tommy Hudspeth, and Ms. Teri Layton, Assistant Manager of Administration and Finance, San Antonio Water Company.

#### **SECTION 2**

#### WATERSHED CHARACTERISTICS, WATER SUPPLY SYSTEMS AND SUMMARY OF 2010 SANITARY SURVEY

This section contains a description of the watershed, water supply systems, wastewater disposal systems

#### WATERSHED AND WATER SUPPLY SYSTEM

#### Watershed

The San Antonio Canyon Watershed, located north and upstream of San Antonio Dam, near Upland, California has a total drainage area of 26.7 sq. mi. Principal features mentioned in this WSS are shown in Figure 2-1. The watershed is within the Mount Baldy Ranger District of the Angeles National Forest and is split between Los Angeles and San Bernardino Counties. The topography of the watershed area is very mountainous and rugged. Elevations in the watershed area range from 10,064 feet above mean sea level on Mount San Antonio in the north to 2,180 feet at San Antonio Dam in the south. Much of the watershed is granitic rock and quartz diorite; alluvium is found in the canyon bottoms.

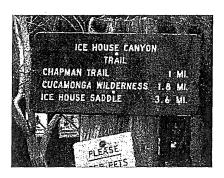
San Antonio Creek has substantial slope varying from over 40 percent (2,100 ft/mile) at its headwaters on the face of Mt. Baldy to 7 percent (370 ft/mile) at the Lower Intake to the City of Pomona/SAWCO raw water pipeline. The canyon sides are very steep – typically 2.5:1 (H:V) or steeper. The steepness of the watershed results in rapid changes in stream flow and quality in response to rainfall. Residence time in the watershed is very short. Travel time in San Antonio Creek from the upper developed area at



the Mt. Baldy Ski Area to the Lower Intake is only on the order of 4 hours (about 1.6 miles/hr). So if something happens in the watershed there is not much time to react to shut off the intake.

#### Land Use

Major land uses in the watershed include recreation, forestry, and low density urban use. Located near the highly populated Los Angeles Metropolitan Basin, the Angeles National Forest receives the second highest visitor numbers of national forests in California. According to data from the U.S. Department of Agriculture, national visitor monitoring program, Angeles National Forest receives over 3.6 million visits per year, with over 1.4 million using day use facilities.



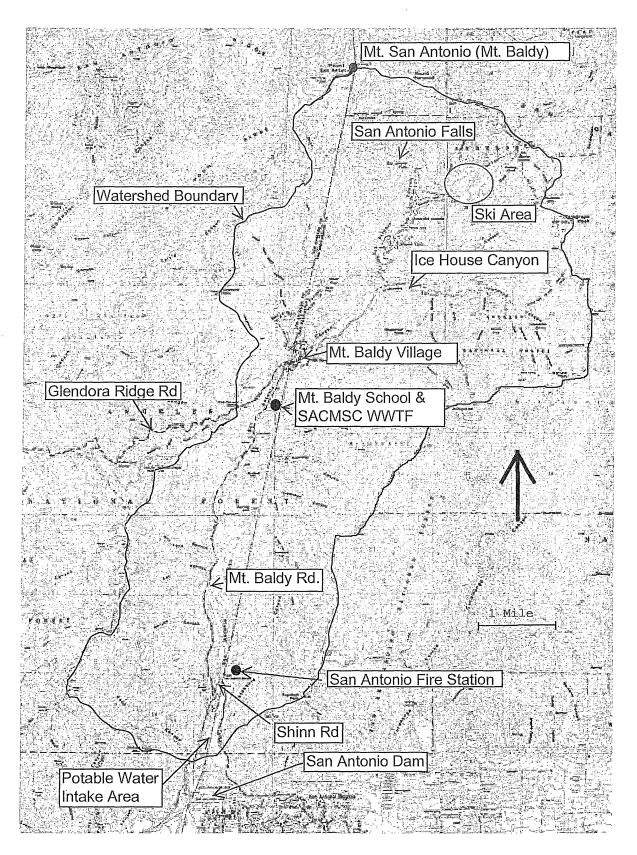


Figure 2-1
Principal Features and Facilities Within San Antonio Creek Watershed

Recreational activities in the watershed vary depending on season and include: skiing, sledding, hiking, backpacking, mountain biking, horseback riding, driving for pleasure, family and group camping, fishing, wading and picnicking. Recreational cabin use is administered by the USFS through special use permits.

Attractions to the area are Mt. Baldy Village, San Antonio Creek, Mt. Baldy Ski Area, the USFS campground at Manker Flats, numerous trails, and the "non-permanent" resident cabins under special use permit from the USFS. Entry into the forest areas of the watershed is unrestricted. One low density urban area, Mt. Baldy Village, is located within the watershed boundaries. The village is the main population center in the watershed, but other smaller communities (cabin tracts) exist in Barrett Canyon, Bear Canyon, Icehouse Canyon, Glacier, Manker Flats, San Antonio Falls, Upper San Antonio Falls and near the Mt. Baldy Ski Area. Mt. Baldy Village includes private residences, two restaurant lodges, a private trout fishing pond facility, a school, a church, and a few small businesses.

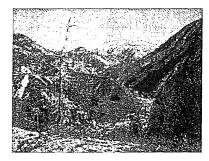
The primary land owner in the watershed is the USFS. The percentage of land owned by the USFS is approximately 85 percent of the total watershed area. Except for Mt. Baldy Village, where the land and the cabins are privately owned, all cabins located on USFS property are privately owned by and only allowed to be occupied under a special use permit on a non-permanent basis.

Access to the watershed area is through only two major roadways. Mt. Baldy Road enters from the City of Upland to the south and Glendora Ridge Road enters from the west. Both roads meet at the southern edge of Mt. Baldy Village; Mt. Baldy Road continues north from there to the end at Mt. Baldy Ski Area. Numerous fire roads are located throughout the watershed; access roads lead from Mt. Baldy Road to the canyon floor at a few locations.

The mountains and hills of the San Antonio Canyon Watershed have been formed in recent geological time; shallow, coarse and infertile soils cover most of the steep slopes and surfaces in the canyon. Much of the watershed is prone to erosion and landslides.

Numerous species of wildlife inhabit the watershed area. Near the canyon floor, dense vegetation provides excellent habitat for wildlife and protects the streambeds from erosion. On steeper, and often rocky slopes, vegetation is scarce with trees and brush scattered on the hillsides.

The watershed has cool, wet winters and hot, dry summers. Approximately 95 percent of the rainfall occurs from November through April. Normal precipitation is from18 inches in the lower elevations to 40 inches in the higher elevations; the latter often in the form of snow. San Antonio Creek maintains year-round flow in years with normal rainfall.



#### Water Supply Systems

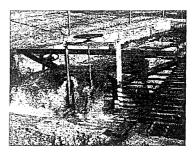
Figure 2-2 shows the principal water supply facilities in watershed.

#### San Antonio Water Company (SAWCO)

San Antonio Water Company, a shareholder-owned mutual water company, produces and delivers potable water to 1,199 metered accounts (with potable water service to 3,371 people) within the unincorporated San Antonio Heights area located north of the City of Upland (Moorrees and Layton, 2011). It also produces and delivers both potable and untreated water to the Cities of Upland and Ontario, local irrigators, private country clubs, and aggregate plants.

Water from San Antonio Creek is diverted by SAWCO from the stream at three intakes along the San Antonio Creek. The upper and middle intakes, maintained by Southern California Edison Company (SCE), collect the stream flow for use at three hydroelectric generating plants located downhill from the upper intake. Water from the upper intake is first piped to the Edison Ontario No. 2 Hydroelectric Plant, located near the Mt. Baldy Road turnoff to Barrett and Stoddard Canyons. From this plant, the water is then piped to the Edison Sierra Hydroelectric Plant located along the floor of San Antonio Canyon approximately one mile further downstream. At this location, a second intake structure collects additional creek flows to be combined with the upper intake water exiting the Sierra Hydroelectric Power plant. The combined flow then travels in a pipeline to the lowest Edison plant, Ontario No. 1 Hydroelectric Plant, located about one-quarter mile downstream of the Lower San Antonio Ranger Station.

At this point, there is a third intake that collects additional creek water by means of a diversion structure through the "wood gate." This diverted water first enters a settling pond where any sand and similar particles drop out. The settled water then flows into a weir structure where it is combined with the water exiting the Edison Ontario No. 1 Plant (when it is operating). During times when the hydroelectric power facilities are not operated, this surface intake is used. The weir structure serves to



combine the flows and then distribute the water for delivery to SAWCO and the City of Pomona. The "60/40 weir" splits the flow between SAWCO (60%) and City of Pomona (40%) into their respective lines. SAWCO has separate water systems for irrigation customers and for domestic (potable) water customers. The irrigation water source is the 60/40 split box; the domestic source is a deep-rock tunnel which follows under San Antonio Creek for some distance up the canyon capturing infiltration beneath San Antonio Creek.

SAWCO transports their irrigation water in a pipe under the creek to the eastern side of the San Antonio Creek wash. The water flows through a V-screen to filter out any debris and then into a forebay structure. Excess flow from the infiltration tunnel can also be taken into the irrigation system supply. SAWCO delivers the water to various irrigators, the City of Upland's San Antonio Canyon Water Treatment Plant, to a groundwater recharge in San Antonio Wash below the San Antonio Dam for spreading, and to Cucamonga Canyon Wash per a stipulated decree.

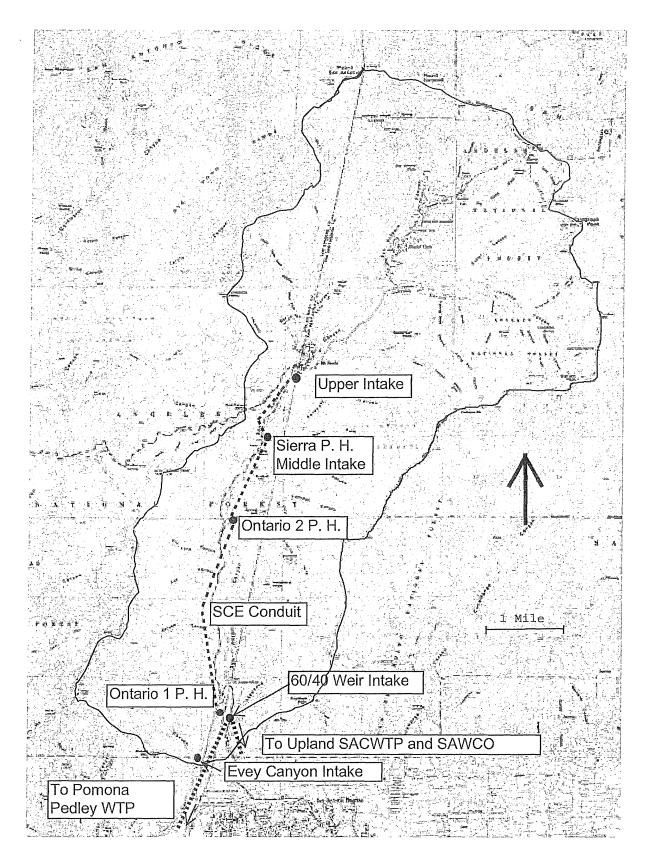


Figure 2-2
Principal Water Supply Facilities Within San Antonio Creek Watershed

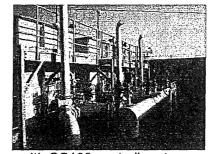
The specific pipeline which carries water from the 60/40 weir structure to SAWCO's forebay structure varies in age from fifteen to fifty-six years old. The current pipeline is a series of replacements over time dating back to the flood damage of 1938. SAWCO's potable water system has 4 reservoirs/tanks, 3 wells, and 6 booster pump stations; the irrigation system has 3 reservoir/tanks, 7 wells and 3 booster pumping stations

The facilities operated by SCE have been actively used since the early 1900's. The piping to the upper Ontario No. 2 plant went into service in 1919. This pipeline is a mix of steel and concrete pipe. The middle Sierra plant began operation in 1901 and the lower Ontario No. 1 plant was built in 1902. According to SCE officials in 1995, the only replacement of pipe in this stretch occurred in 1957, when a 132 foot piece was replaced due to storm damage. Based on the age of the SCE facilities, the SCE system is believed to have a potential for failure.

#### City of Upland

The City of Upland's San Antonio Canyon Water Treatment Plant (SACWTP) was constructed in 1989 and came on line in March 1990. A plant upgrade was completed in 2008. The plant has three Neptune Microfloc® package water treatment units operated in parallel. When the raw water enters the treatment facility, coagulants (aluminum sulfate [alum] and cationic polymer) and chlorine are added in a static mixer. The coagulated water then flows through a flow splitting structure which divides the flow equally to each of the three package treatment units. On entering the treatment units, the water flows through an upflow clarifier with tube settlers, where flocculation and sedimentation occur, and then downflow through a dual media (sand-antracite) gravity filter. The filtered water then flows to a clearwell. Chlorine can be added to the flow entering the clearwell.

The dual media filter system has both surface wash (rotating) and auxiliary air scour and filter-to-waste provisions. After each filter backwashes, the filter operates in filter-to-waste mode for 25 to 30 minutes to allow the filter to "ripen." The filter media has been replaced twice since the plant was new. The chlorination system is a Miox on-site sodium hypochlorite generation system. The plant has a 5.5 mgd treatment capacity but can provide CT to 6 mgd if



necessary. The plant has 1720E low range turbidimeters with SC100 controllers to monitor influent turbidity, individual filter effluent turbidity and combined filter effluent turbidity. These were installed in the 2008 upgrade.

Waste backwash water and filter-to-waste flows to a series of lagoons on site for settling; the overflow is percolated by SAWCO. Waste wash water is not returned to the plant.

An alarm is initiated at 15 NTU influent turbidity and the plant shuts down at 20 NTU. Greater than 0.1 NTU in the filtered water could cause the plant to shut down also.

A standby generator is on-site and can provide emergency power for the entire plant. There is also space and piping to add a fourth package treatment unit to expand plant capacity if desired.

Treated water leaves the SACWTP and is stored in Reservoir No. 2, a 5 MG reservoir located in the upper zone of the Upland's water distribution system.

In addition to the water supply from SAWCO, the City of Upland also uses groundwater and receives treated State Project Water from the Water Facilities Authority (WFA). The State Project enters the City supply system in its Pressure Zone 3 and reportedly will exhibit a bump in the TTHMs (Pendergraft, 2011)

The City of Upland Water Department supplies treated drinking water to 67,000 persons located in the City of Upland and in a small, unincorporated area bordering the southwestern half of the city limits. The facilities maintained by Upland include 10 well pumps, 17 reservoirs, and the SACWTP.

#### City of Pomona

The City of Pomona conveys their water to the Pedley Filter Plant in a pipeline from the 60/40 box along the western side of the canyon. Before the pipe travels under San Antonio Dam, surface flow from Evey Canyon is diverted into the main pipe and conveyed, with the water from the 60/40 box, to the Pedley Filter Plant for treatment.

Pomona's Pedley Filter Plant was upgraded and modified to comply with the Surface Water Treatment Rule with the upgraded plant coming on line in 1998. Some upgrades and operation changes have been made to the plant since then.

Raw water from the canyon is screened to remove coarse particles and debris. Alum, polymer (optional), and sodium hypochlorite are added in a flash mix basin. The water flows into a "Superpulsator®" solids contact clarifier for removal of turbidity. The settled water flows into a baffled chlorine contact basin designed to provide sufficient retention time to meet the Surface Water Treatment Rule's CT requirements prior to filtration. The filter is a travelling bridge type that was modified as part of the 1998 upgrade to include filter-to-waste provisions. The filtered water is chlorinated and discharged to a 3.5 MG on-site prestressed concrete reservoir. The reservoir was installed with the upgrade in 1998. A second 3.5 MG clearwell was installed sometime after 2000. Hypochlorite can be added to the treated water after the clearwell reservoirs if needed.

Spent filter washwater and sludge from the Superpulsator® mix in a common sump and pumped to a decant tank for separation. The decant overflows to an adjacent spreading basin and recharged to the groundwater. No backwash water is currently recycled as problems were observed by the plant operators when this was done (Capogni, 2011a).

Raw water turbidity is continuously monitored and automatic shutdown of the plant occurs if high raw water turbidity is experienced for a preset time period. The Pedley Filter Plant Operational Permit allows for taking untreated water from the canyon up to 10 NTU before the Filter Plant automatically shuts down (Capogni 2011b). Water which is not treated in the plant is diverted to percolation ponds on site.

Process monitoring includes continuous turbidity measurement and particle counters. The plant has a Hach 1720E low range turbidimeter with SC100 controller, and new particle counters and chlorine residual analyzers which replaced equipment installed with the 1998 upgrade. The plant also monitors pH continuously. Operators perform jar testing about once per month, sometimes more often, depending on water quality.

An emergency standby generator has been installed and operates the plant during power outages. This was added since the 1998 upgrade.

Treated water leaves the Pedley Filter Plant clearwell reservoirs and flows to the rest of Pomona's water system. The City of Pomona provides drinking water to approximately 139,000 persons located in its service area and the City's facilities include 36 active wells and 18 active reservoirs. The City of Pomona supplements its supply with treated water from the Metropolitan Water District of Southern California (MWDSC) which provides a blend of Colorado River Water and State Project Water, as well as treated State Project Water from Three Valleys Municipal Water District (TVMWD) as needed.

Portions of the pipeline which runs from the 60/40 weir structure to Pomona's Pedley Filter Plant are approximately 100 years old. The line still functions properly, although some of the valves near the Pedley Filter Plant are in need of replacement due to the fact they occasionally seize up from infrequent use. Even though the line flows by gravity, the City of Pomona never lets the water back up in the pipeline for fear that the increased pressure would cause breaks in the aging pipeline. Since 2007 the City of Pomona replaced 3,800 ft of the pipeline above San Antonio Dam and repaired/replaced 20 ft of pipeline that is below the dam. The City's plans are to continue to replace portions of the aging pipeline.

#### Water Sources and Rights

The surface water rights in San Antonio Canyon are based upon a series of adjudications between various water companies. These are described in detail in the 1995 Watershed Sanitary Survey and are not repeated here.

#### **Emergency Plans**

The USFS San Gabriel River Ranger District has a Disaster/Emergency Response Plan which describes those actions for the immediate protection of life, property or natural resources which are threatened by major disasters and emergencies.

SAWCO does not have a written emergency plan, but conducts a physical observation of its facilities in the event of an emergency. During reconnaissance for a reported emergency, officials from SAWCO investigate key delivery points in the company's system and make needed corrections to handle the situation. If the water supply to customers or if other agencies are affected by the emergency, then SAWCO notifies them and coordinates appropriate response actions.

The City of Pomona and the City of Upland have developed a Water Quality Emergency Notification Plan per CDPH requirements. To avoid breaches of confidentially, these Plans are not included in this document.

#### 2.2 POTENTIAL CONTAMINANT SOURCES IN THE WATERSHED

Wastewater is treated in on-site systems with subsurface disposal exclusively. There are two "large" systems. One system is owned by the San Antonio Canyon Mutual Service Company (SACMSC) which serves a portion of the Mt. Baldy Village and the second is owned by Mt. Baldy School. Both are maintained by the SACMSC. Since the 2000 WSS update, each of these disposal systems have been issued discharge permits from the Los Angeles Regional Water Quality Control Board. They were issued

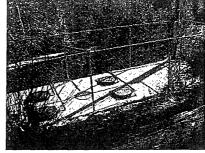
in 2001 under General Order 01-031—"Waste Discharge Requirements for Small Commercial and Multifamily Residential Subsurface Sewage Disposal System." As part of that order quarterly monitoring reports and an annual summary report are to be submitted to the Regional Water Quality Control Board. The quarterly reports must include the monthly average daily flow, population served, and a summary of the latest quarterly observation of the disposal field for overflows or surfacing of wastes. Also an annual operations and maintenance report is required. The Order requires quarterly surface water sampling and analysis of San Antonio Creek upstream and downstream of the system and just upstream of the SCE intake. Sampling and analysis of the creek water is for total and fecal coliform and nitrogen species (Regional Board, 2001). The Regional Board considers the waste treatment system a minor threat to water quality. These reports are public information and are available at the Regional Board's offices in Los Angeles.

All of the other systems are individual systems maintained by the parcel owners and permitted by either Los Angeles County or San Bernardino County Departments of Building and Safety depending on location. Most of the septic tank systems serving the cabins are old and little information exists on the condition of the systems. The USFS does monitor the special permit cabins on a semi-annual basis with its "prevention officer." The prevention officer has two primary responsibilities – fire prevention and water quality protection. A second individual works with the cabin owners to ensure compliance. Based on this vigilance and due diligence by the officers in observing malfunctioning wastewater disposal systems, the water quality concerns from the cabin wastewater disposal systems is minimized.

The water supply agencies want to make sure the individuals from the USFS who do the monitoring are trained in the water quality aspects. The training should be done in cooperation with the Agencies. The Agencies also request the USFS keep records of when the special permit cabins' septic tanks are pumped or otherwise modified or replaced. The latter should only be done under permit from the appropriate County agency. Copies of these records should be provided to the Watershed Committee on an annual basis.

#### Wastewater from Mt. Baldy Village

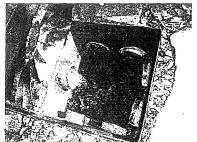
The SACMSC sewer system consists of main collector sewers with individual lateral connections to customers' houses. The system serves 52 homes, generally south of Central Avenue. A gravity trunk sewer runs along the western bank of San Antonio Creek and flows by gravity to a 12,700 gallon, two chamber, septic tank (first tank) installed in 1991. According to SACMC the average daily flow is about 8,000 gallons/day. The location is along Mt. Baldy Rd. about 1,200 ft south of the intersection of Glendora



Ridge Rd. and Mt. Baldy Rd. This tank was recently retrofitted with a Pirana[™] Aerobic Bacteria Generation System. The first chamber consists of an aeration system containing five submerged pumps each with a small compressed air blower. The pumps circulate the liquid through sacks of a proprietary blend of bacteria and aspirate air (oxygen) into the liquid. The contents of the chamber are vigorously circulated. The second chamber contains a single Pirana[™] unit. The pumps and blowers maintain an

aerobic environment without the customary septic odors. The effluent from the first tank flows about 500 ft downstream, by gravity, in a pipe, to a 500 gallon tank (second tank) located adjacent to Mt. Baldy Road on the Mt. Baldy School site. From there the flow is by gravity, another 500 ft under Mt. Baldy Road to a drop structure located on the north side of the main leach field (leach field #3). From the drop structure, the flow passes through a distribution structure, which has adjustable outlets, to balance the flow to each leach field lateral. Leach field #3 was constructed around 1990 and consists of about 5 laterals, each about 100 ft in length. They were inspected by closed circuit TV a few years ago and found to be in very good condition (Sked, 2011). This leach field is on the west side of Mt. Baldy Road about 400 ft laterally from San Antonio Creek. It is not in any danger of being washed out and is sufficiently far removed from the Creek to have any impact.

The Pirana™ tank was observed on January 12, 2011 and found to be without septic odor and no scum or crust typically found on septic tanks. The contents appeared to well mixed. The effluent quality from the treatment system was observed in the distribution box at leach field #3 and found to be relatively clear (Reichenberger, 2011a).



The SACMSC has 2 other leach fields in addition to the main field; leach field #1 is located just south of the Pirana™ units; leach field #2 is located on the school site. Leach fields #1 and #2 are used only as standby. Leach field #1 is over 150 ft from the nearest watercourse; leach field #2 is at least 220 ft from San Antonio Creek.

The SACMSC still has their original septic tank system, constructed in the mid-1930s, as standby near the 12,700 gallon tank. Although the wastewater flows in by gravity to this old system, it has to be pumped out. This is why it is not used any longer, but kept for emergency purposes. The pumps have gasoline engine drives.

The 12,700 gallon septic tank and the standby septic tank and pump sump are located approximately 100 feet from the creek and directly upstream from the upper Edison intake in a fenced area below Mt. Baldy Road and north of the school playground.

In past sanitary surveys, there was concern for the septic tank systems due to their age and proximity to San Antonio Creek and the SCE intake, which during summer months is the primary source of water at the 60/40 weir box. However the current system appears to have adequately mitigated these concerns primarily with the installation of an "all gravity" system. However it is important the collection system be maintained to prevent any backups and sewage spills from the manholes. The installation of the gravity system for effluent disposal and the location of the third leach field are all positive mitigation measures. The fact that reports of the system operation are required by the Regional Board helps to ensure the systems are properly operated and maintained.

The systems have never leaked or caused contamination of the creek according to SACMSC officials. The potential for wastewater discharge into surface waters in the watershed is a minor problem which could only occur if there were failure in the leach fields serving the facility. This appears remote with the current treatment system.

#### Wastewater from Mt. Baldy School

The school has an on-site, conventional septic tank system, maintained by SACMSC. The leach field is located under the volley ball court/parking lot about 200 feet west of San Antonio Creek. The system is pumped out about every 5 or 6 years (Sked, 2011). The system is located uphill and approximately 300 ft from the upper Edison intake located on San Antonio Creek. With this system having a waste discharge permit with required monitoring and reporting to the Regional Board, there is some assurance the system will be properly maintained. So wastewater contamination from this system is remote.

#### Other Septic Tank Systems in the Watershed

Septic tank systems are widespread and divided into four categories (Mt. Baldy Village (those not connected to the SACMSC), private canyon residences, Forest Service general use, and Forest Service special permit cabins for the purpose of this survey. The respective County Health Departments inspect the septic systems and respond, (when called), to failures and complaints in San Antonio Canyon. The USFS has a prevention officer who patrols the area twice a year and looks for brush clearance and water quality issues. It is stated by the USFS that there is follow-up through a second person to ensure compliance. A request was made to the USFS to determine if a record of the patrols, observations, and the compliance orders is available (Reichenberger, 2011b). A follow-up email was sent to the USFS on April 8, 2011; to date, the USFS has not responded.

#### Mt Baldy Village (not SACMSC) and Along Mt. Baldy Rd.

In Mt. Baldy Village, all houses and businesses, which are not members of SACMSC, have individual septic or graywater systems. Most of the homes in Mt. Baldy Village with septic systems are not located near surface water routes and therefore do not represent possible direct surface contamination sources as a result of overflow. The closest lots are about 150 ft from the creek which provides some protection. However groundwater seepage from leaking septic tanks and overloaded leach fields could be a source of contamination. There are a number of homes located adjacent to the minor tributary, Bear Canyon. Homes which are close to a watercourse present a possible source of contamination should one of the home's septic systems overflow or leak.

Private residences outside of Mt. Baldy Village are located throughout the watershed. Starting from the south, two ranches (Brant and Wingate) are located near the creek and north of the Mt. Baldy Road/Mountain Avenue intersection (the road to Stoddard and Barrett Canyons). The two ranches were visited (in 1995) and found to be located a sufficient distance from the creek to reasonably prevent surface contamination from septic tanks. However, due to the fact that the ground is typically sand and gravel and becomes saturated during periods of heavy rain and high flows in the creek, the possibility for groundwater contamination from a faulty septic system is not ruled out. Future construction (and replacement of existing structures or systems) should not be allowed in close proximity to perennial or ephemeral streams and wastewater disposal systems shall have adequate setback distances per the building codes of the Counties of Los Angeles and San Bernardino. (San Bernardino County requires 100 ft and 50 ft respectively for perennial and ephemeral streams. The septic tank itself needs to have at least a 50 ft separation. Measurement is from the 100-yr flood level (San Bernardino, 2007).)

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Directly north of the village on Mt. Baldy Road is the Buckhorn Lodge. The lodge, which opened in 1910, is open year round and includes a motel located across the Mt. Baldy Road. The septic system was reported in the 1995 WSS to be 10 or less years old for the motel, but the lodge has been at that site for many years and the septic tank system condition is unknown. North of the lodge and across the creek bridge is a private fishing pond operation and residence on the east side of the road. The potential for contamination is not likely to occur from the private park because the location is several hundred feet from the creek. Emptying of the ponds could be a water quality concern, but no one was available to discuss the operation of the ponds since the business was closed until the summer.

Following Mt. Baldy Road north to Icehouse Canyon, there are numerous homes with septic systems. The back of the houses overlook the canyon creek. Due to the fact the homes are adjacent the stream is a cause of concern and the potential for contamination from these homes should be noted. Refer to the statement above relative to siting facilities near streambeds.

Residences and lodges are also located further north on Mt. Baldy Road up to the Snowcrest area. The Mt. Baldy Zen Center and Snowcrest Lodge both operate cabin rentals, but the stream appeared to be far enough away from the lodges to be impacted by wastewater disposal. Other homes were noted along Mt. Baldy Road between Icehouse Canyon and the ski area. These homes pose little or no threat due to septic tank contamination because generally the creek is located in a deep ravine over 150 feet from the nearest homes.

#### U.S. Forest Service Facilities

The Forest Service operates several general use facilities which serve recreational visitors in the canyon. See Figure 2-3 for recreational facilities in the Upper San Antonio Canyon area. The lower San Antonio Fire Station at Shinn Road has restroom facilities, but the exact location of the septic system could not be determined. An inquiry was made to the USFS to determine if the location had been ascertained and if there were any records of pumping and maintaining the septic tank system. No clarification has been received (Reichenberger, 2011b). The Mt. Baldy Visitors Center, located in Mt. Baldy Village, has a restroom with leach system with a design capacity to handle the four or more busloads of children which visit the center daily. The center is also located several hundred yards from the creek across Mt. Baldy Road and does not present a likely potential for contamination.

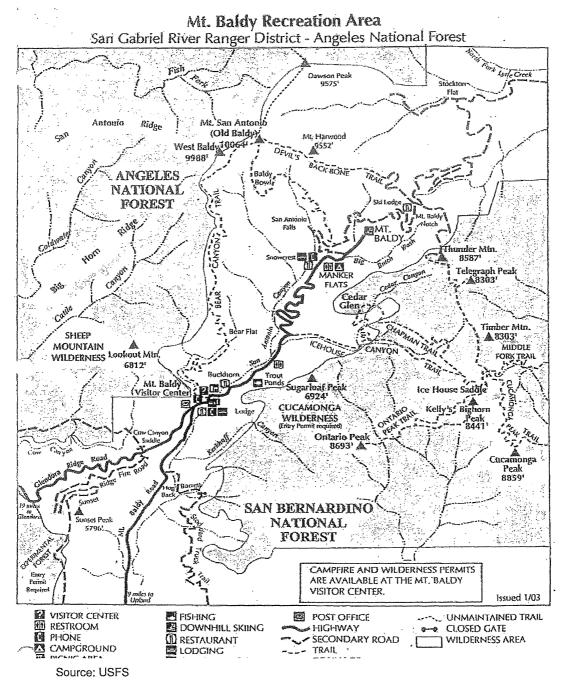
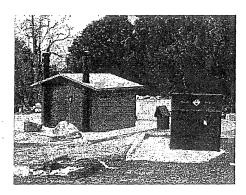


Figure 2-3
Recreational Facilities in Upper San Antonio Canyon

One public restroom facility exists north of the village on Mt. Baldy Road, but it too is located several hundred yards from the creek and is not considered a potential contamination source. Further north on Mt. Baldy Road is Mt. Baldy Wayside Picnic Site, a picnic area with vault toilet facilities located south of the Icehouse Canyon turnoff. This is not believed to be a contamination hazard due to its location several hundred yards from the creek. Manker Flats Campground, located in the upper reaches of the San Antonio Canyon,



has restroom facilities (vault toilets). The campground has approximately 21 campsites for overnight camping, but is only opened on a seasonal basis from spring to fall. A dry wash is located behind the campground, but the area is not believed to be a significant threat because it has no normal surface flow. There are restroom facilities (vault toilets) at the Icehouse Canyon Trailhead. At the end of Mt. Baldy Rd., at the ski area parking lot, there some portable toilets available for use.

Approximately 120 recreational special use permit cabins are in the watershed area on federal land operating under a Special Use Permit which limits their use to other than permanent, i.e. weekend or vacation use. However some of the cabins are likely occupied year around. The USFS tries to enforce the "non-permanent" use, but it is difficult to determine if occupied on a full time basis when an "inspection" is made only about twice a year. With the statewide emphasis of water conservation and the mandate to reduce per capita water consumption by 20 percent by 2020, meters should be installed on all water services. Occupancy can be determined based on typical "per capita" water use in the area. The meters only would need to be "read" annually. This would help the USFS with enforcement of the permit provisions.

#### The cabin tracts are:

- Bear Canyon
- Barrett Canyon
- Glacier
- Icehouse Canyon
- Manker Flats
- San Antonio Falls
- Upper San Antonio Falls

The USFS monitors the cabins and the cabin residents reportedly tend to "self-police" themselves to ensure the conditions of the Special Use Permit are complied with and cabins are kept up, trash is contained etc. (USFS, 2011). As stated previously, the prevention officer walks the cabin tracts twice per year with a follow-up by a second USFS staff person to ensure compliance. If there is a non-compliance issue, the USFS will work with the cabin owner to develop a plan for compliance and if necessary suspend the Special Use Permit. If there is no compliance, the USFS will revoke the Special Use Permit and require the cabin owner to demolish the cabin and remove the debris at the cabin owner's expense.

During the preparation of the 1995 WSS, it was reported the USFS did not intend to renew the Special Use Permits for the cabins. However, in 2008, the USFS did renew the permits for another 20 years. The USFS did state that if a cabin is 50% or more destroyed it cannot be rebuilt. However, if the damage is not due to the cabin owner's negligence, the USFS will try to find an "in lieu" parcel on which the cabin can be reconstructed. The USFS first completes an environmental evaluation of the parcel to ensure there are no endangered or threatened species. All reconstruction must be in conformance to County of Los Angeles or County of San Bernardino building requirements. The new cabins must meet all current building codes (USFS, 2011).

At the time research was being conducted for the 1995 WSS, the USFS was conducting a flood plain study of the Angeles National Forest. As part of the study, the cabins located in San Antonio Canyon Watershed were to be included and more detailed information on the condition of the cabins and their sanitary waste systems would be available upon completion of the study. In meeting with the USFS, they have no recollection of this study (USFS, 2011).

Currently fewer than 20 cabins are located in Barrett Canyon, as compared to 31 cabins under Special Use Permit in the area during 1953. (Sanitary Survey, 1953) It is clear that the number of cabins is declining over time. Most of the cabins are accessible by automobile from the Mountain Avenue turnoff on Mt. Baldy Road. Many of the cabins are only 50-100 feet from the streambeds of tributaries and septic and greywater systems may be a concern as a source of contamination to the streams. Numerous stream crossings were also encountered during the investigation of the canyons, thereby raising the issue of increased turbidity in the streams due to vehicular traffic and the potential for washing oils, vehicle lubricants, and other contamination in the stream at the crossings. These cabins were not inspected in the current WSS (2010) update due to high stream flows. However, as stated previously, the USFS prevention officer visits the cabins semi-annually and monitors for brush clearance and water quality concerns.

Further north in the upper San Antonio Canyon, the Forest Service cabins appear to be less of a hazard. The creek in the northern area is generally farther from the cabins and flows are more seasonal depending on the amount of precipitation and snowfall.

#### WATERSHED CONTROL AND MANAGEMENT PRACTICES

The management of the USFS lands in the San Antonio Canyon Watershed is the responsibility of the San Gabriel River Ranger District of the Angeles National Forest. The San Gabriel River Ranger District Office is in Glendora. The Angeles National Forest is administered through four Ranger Districts; the supervisor's office for the forest is in Arcadia. All recreation, timber, fire management, mining, and other activities come under the responsibility of the District Ranger.

In addition to the USFS land in the watershed, private land owners are responsible for management of their own lands and conformance to local laws and regulations. While the USFS land is controlled by national policies, both public and private lands in the San Antonio Canyon come under jurisdiction of San Bernardino or Los Angeles County, depending on the location of the property. As a result, County and State of California officials enforce respective regulations and laws in the watershed concerning permits, operation, compliance, and safety of facilities used for drinking water, wastewater disposal, and general building construction. Still other organizations

such as the Agencies, SCE, Mt. Baldy Home Owners Association, and San Antonio Canyon Mutual Service Company play active roles as managers of their own facilities.

The Land Management Plan, Part 2, Angeles National Forest Strategy (USDA, 2005) provides management policies and actions for the San Antonio Canyon Watershed.

Two counties divide San Antonio Canyon as well as Mt. Baldy Village. In San Bernardino County (SBC) and Los Angeles County (LAC), the drinking water regulations for the systems used by MBHA and SACMSC are enforced by the California Department of Public Health (CDPH) located in San Bernardino. The San Bernardino District of the DPH regulates water systems that serve 200 or fewer persons and inspections of the canyon systems are made by officials of the CDPH. Regulations governing the City of Pomona are enforced by the Los Angeles District of the CDPH; the City of Upland's Water Treatment Plant by the San Bernardino District of the CDPH. Septic tank permitting in the San Bernardino County portion of the watershed falls under jurisdiction of the city of San Bernardino office of the San Bernardino County Department of Building and Safety. Permits are only issued for construction of new and modifications to existing facilities. Maintenance of septic systems is the homeowner's responsibility, and complaints of noncompliance or health concerns can be made to the San Bernardino County Department of Environmental Health. In the Los Angeles County portion of the watershed, septic tank regulations are handled by the Los Angeles County Department of Environmental Health Services, Rural and Mountain Systems. Septic tanks are inspected only upon construction or when public land is sold to private parties.

The San Antonio Watershed Committee comprises of the following organizations and agencies:

- City of Pomona
- City of Upland
- San Antonio Water Company
- San Antonio Canyon Mutual Services Company
- Snow Crest Heights
- Mt. Baldy Homeowners Association
- Alpine Water
- Southern California Edison
- Unites States Forest Service

The Watershed Committee's mission statement is:

"The San Antonio Canyon Watershed Committee is committed in developing partnerships both public and private in working together toward common goals involving monitoring of source water quality, protecting the qualities of life and vitality of land users in the watershed and its beneficiaries." (Steering Committee, 2005).

The Committee meets bimonthly to discuss matters of mutual interest.

#### SUMMARY OF THE WATER QUALITY DATA FROM 2010 WSS

#### Needs updating

The following was extracted from Section 4 of the 2010 WSS and edited to adjust the "tense" to the past condition. The tables and figures in Section 4 of the 2010 WSS are not repeated.

## City of Pomona

#### General Mineral Analysis

The general mineral parameters of calcium, magnesium, TDS, hardness, alkalinity, chloride, and sulfate has not changed since 1994. Nitrate showed a decrease over time since 1994; nitrite plus nitrate as nitrogen decreased from 1995-2000. MBAS was measured at 0.56 mg/L in 2009 in the raw water; this was the first detection since 1995-99. The heavy metals of significance are all well below MCL or action levels and are not of concern.

# **Turbidity**

A higher-than-normal raw water turbidity was observed December 2003 through March 2004 which was most likely due to the Grand Prix Fire which burned the watershed. The years 2001-2005 had greater raw water turbidity than the previous study periods. A statistical analysis was made comparing the 2001-2005 average turbidity with 1995-99 average raw water turbidity to see if there was statistically significant difference. At the 95% confidence level, there was no difference between 1995-99 and 2001-05 averages.

For the period 2006 -2010, the maximum raw water turbidity was less than in previous study periods;; ninety percent of the time the average raw water turbidity entering the Pedley Filtration Plant was less than 0.50 NTU.

#### Raw Water Microbials

Table 2-1 taken from the 2010 Watershed Sanitary Survey show the variation in microbials over time. It appears there has been a reduction in average total coliform, however, when compared to fecal coliform and HPC, there is little change over time.

Table 2-1
Pedley Filtration Plant Raw Water Microbial Summary
(from 2010 WSS)

	1995-99	2001-05	2006-10
Average Total Coliform (MPN/100 mL)	1486	323	731
Average Fecal Coliform(MPN/100 mL)	35	34	41
Average E. coli(MPN/100 mL)	Not determined	Not determined	35
Average HPC (CFU/mL)	132	228	164

#### Evey Canyon Raw Water

Water from Evey Canyon is introduced into the pipeline from the 60/40 weir box to the Pedley Filtration Plant, i.e., downstream of the 60/40 weir box. The water is sampled by the City for Total Coliform, Fecal Coliform, E. coli, and HPC. Analysis in 2010 WSS concluded that a large portion of the E. coli measured at the Pedley Filtration Plant inlet is due to the Evey Canyon intake but this should be confirmed with additional monitoring and investigation.

# Giardia & Cryptosporidium Sampling

Water samples are collected an analyzed for Giardia and Cryptosporidium periodically at the inlet to the Pedley Filtration Plant and at the Upper, Middle and Lower (Edison Box) Intakes as well as Ice House Canyon. The data shows that Giardia and Cryptosporidium are not of concern. There is no definite trend showing any increases. The most recent sampling in the 2010 WSS was taken on 7/6/2010,right after the 4th of July weekend, a time when recreational use of the stream and canyon is particularly high. That sample showed no presence of either organism. In 2010 it was concluded that the watershed does not have a Giardia or Cryptosporidium problem.

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## City of Upland

For the City of Upland, a separate statistical analyses was not performed on the Upland data for turbidity and microbial contaminants. The general mineral content has not changed since the 1995 WSS.

## **Finished Water Quality**

#### City of Pomona

The Disinfectant/Disinfection by-products (DDBP) Rule puts limits on the concentration of the disinfectant, total THMs, HAA5, bromate and chlorite. There was no sampling data for the City of Pomona available for the 2000 WSS on bromates or chlorite. It was stated that bromates are probably not present in sufficient concentrations to be a problem but chlorites could be present since the Pomona system uses liquid sodium hypochlorite as a disinfectant.

The total trihalomethane (TTHM) concentrations measured at sample points 9-1 through 9-4 in the distribution system were all well below the current 80  $\mu$ g/L primary MCL. Even using the locational running annual average (LRAA), the TTHMs were still well below the primary MCL. It should be noted that the City of Pomona does use significant amounts of groundwater in the system as well as treated State Project Water from Three Valleys MWD.

Limited data on the five regulated haloacetic acids (HAA5) measured by the City of Pomona at the same locations were under 10  $\mu$ g/L also well below the primary MCL of 60  $\mu$ g/L.

In terms of treated water turbidity, a graph in the 2000 WSS (Figure 4-6 in the 2000 WSS) clearly showed the significant improvement in treated water turbidity since the upgraded Pedley Filtration Plant went on line in the late 1990s.

Heterotrophic Plate Count (HPC) data in the finished water from the Pedley Filtration Plant was presented. There were some spikes in HPC which were not identified as being associated with high raw or finished water turbidity spikes, or total or fecal coliform spikes.

Total coliform in the treated water in the 2000 WSS was reported as always less than 2/100 mL. The current requirement is not numeric but Presence/Absent.

# Treated Water Organics

The regulated organics in the treated water are all below detection levels.

# Treated Water Disinfection by-products

TTHM and HAA5 data for the City's system indicated the system is in compliance with the MCL for both of these DPBs even when considering the locational running annual average.

#### City of Upland

For the City of Upland, the total THMs was under 20  $\mu$ g/L and is not a problem with compliance. HAA5 data for 1999 from Upland indicated a maximum value of 9.8  $\mu$ g/L with the annual average below 2  $\mu$ g/L. Both were well below the MCL of 80  $\mu$ g/L 60  $\mu$ g/L respectively. The residual disinfectant, chlorine, was typically about 2 mg/L; the maximum residual disinfectant level is 4 mg/L for chlorine.

Data for the Upland Treatment Plant indicates the plant consistently provided finished water with a turbidity less than 0.4 NTU and generally always below 0.2 NTU.

Total coliform in the treated water in the 2000 WSS was reported as always less than 2/100 mL. The current requirement is not numeric but Presence/Absence.

#### Need to Provide Enhanced Coagulation

The DDBP rule also has a treatment requirement to control DBP precursors through enhanced coagulation. However, if certain water quality conditions are met, the need for enhanced coagulation is waived. The conditions are:

- 1. Source water TOC < 2.0 mg/L as a quarterly running annual average
- 2. Treated water TOC level < 2.0 mg/L as a quarterly running annual average
- 3. Source water TOC level is < 4.0 mg/L as a quarterly running annual average and the source water alkalinity is greater than 60 mg/L as CaCO₃ and the total THM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L respectively
- 4. The total THM and HAA5 running annual averages are no greater than 0.040 mg/L and 0.030 mg/L respectively and the system uses only chlorine for primary disinfection and maintenance of a residual.

- 5. Source water specific ultraviolet light absorption (SUVA), measured monthly, is less than or equal to 2.0 L/mg-m calculated quarterly as a running average.
- 6. Treated water specific ultraviolet light absorption (SUVA), measured monthly, is less than or equal to 2.0 L/mg-m calculated quarterly as a running average.

The City of Pomona did not have any data on the Total Organic Carbon (TOC) of San Antonio Creek for the 2000 WSS; however, the City of Upland did quarterly sampling in 1999 at locations within the distribution system. All of the sample results were "Non detect" except for one single sample at 0.88 mg/L. There was no raw water TOC data available. In reviewing the alkalinity, total THM and HAA5 data, neither the Pomona nor Upland water treatment plants need to perform enhanced coagulation as they both comply under option 4 and possibly option 3.

# Water Quality Monitoring Program for San Antonio Creek

The 2000 WSS recommended a reduced monitoring program from that recommended in the 1995 WSS for San Antonio Creek due to the costs and the logistics of performing the sampling.

#### FINDINGS FROM 2000 WSS

- The monitoring of the watershed as recommended in the 1995 WSS has not been performed. There are many reasons for this but the primary reasons are the costs and the accessibility of some of the sampling locations. The 1995 WSS monitoring requirements were modified as part of the 2000 WSS to make the sites more accessible and to make the monitoring program more practical.
- 2. The general mineral water quality of San Antonio Creek has not changed measurably. The constituents which are typically associated with contamination, i.e., nitrates, chlorides and sulfates have not changed.
- Average monthly raw water turbidity in San Antonio Creek as determined by measurements at Pomona's Pedley Filter Plant has not changed significantly from the previous period.
- 4. Average monthly total coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Filter Plant have changed significantly from the previous period. In the 1995 WSS covering the period 1987-1994, 90 percent of the average monthly total coliform levels were less than 1200/100 mL; the recent data (1995-99) indicates that 90 percentile value has increased to 2200/100 mL. This is a measurable deterioration.
- 5. Average monthly fecal coliform levels in San Antonio Creek as determined by measurements at Pomona's Pedley Filter Plant have not changed significantly from the previous period. .
- Average monthly HPC levels in San Antonio Creek as determined by measurements at Pomona's Pedley Filter Plant have improved significantly from the previous period. In the 1995 WSS covering the period 1987-1994, 90 percent of the average monthly HPC levels were just under 300 cfu/mL; the

- recent data (1995-99) indicates that 90 percentile value has decreased to under 200cfu/mL.
- 7. THM and HAA5 levels in the treated water are well below the Disinfectant and Disinfection by-product rule requirements.
- 8. Sampling for Giardia cysts and Cryptosporidium oocysts on the day following the Labor Day weekend in September 2000, indicated less than 1 Giardia cyst/L; no Cryptosporidium oocysts were found. This was not appreciably different from the findings in the 1995 WSS.
- 9. Recreational activities in the watershed continue to be a concern particularly as they relate to disposal of trash.
- 10. Septic tanks and subsurface wastewater disposal systems continue to exist and still pose a threat to water quality. Some could be impacted by high flood flows.
- 11. Watershed signage which was recommended in the 1995 WSS has not been installed. The Agencies continue to work with the Forest Service on this issue.
- 12. The City of Pomona and City of Upland water treatment plants will comply with the new Stage 1 Disinfectant and Disinfection by-products rule and the Interim Enhanced Surface Water Treatment Rule. The requirement to provide continuous turbidity measurement on each filter cell, if actually required for the traveling bridge filter, may not be possible at the Pomona Pedley Filter Plant without extensive modifications.

#### CONCLUSIONS AND RECOMMENDATIONS FROM THE 2000 WSS

#### Conclusions

- 1. Land within the San Antonio Canyon Watershed is primarily controlled by the USFS. The development potential is limited. Urbanization, per se, is not occurring. Current Special User Permits in the watershed will not be extended and existing cabins are being demolished upon lease termination. (This has since been changed and the USFS has extended these Special Use Permits for another 20 years but development is still limited since waters of San Antonio Creek are fully appropriated.)
- 2. Recreational activity is significant in the watershed and the belief is that it will increase in time as other nearby, streamside recreation areas become more crowded. This will adversely impact the water quality over time. (The USFS indicates that with the increased fuel costs and the state of the economy, people are staying "closer to home." As a result the people are going to nearby recreation areas, like San Antonio Canyon, instead of driving longer distances. The USFS believes that recreational visitors are increasing [USFS, 2011]).
- 3. Winter recreation from potential expansion of the ski facilities will bring additional visitors and vehicles into the watershed. Snow and ice control sanding will increase water turbidity during snow melt periods. (Sand is no longer used; instead a "cinder" product is used which contains no salt. The

- County reports that the roads are swept to minimize any impacts of the "sanding" on water quality. [San Bernardino County Public Works, 2011]).
- 4. Spills of chemicals or contaminants due to vehicle accidents is not a significant hazard in the watershed. The road traversing the watershed serves only the national forest recreation areas and the small community of Mt. Baldy Village. The road is not a "through road" and does not attract a significant amount of traffic. (Traffic can be a major problem on the road; the USFS has had to close the road to visitors at times when the traffic is bumper to bumper from Shinn Road to the ski area. A review of accident records from the California Highway Patrol Data Base indicated about 200 accidents on Mount Baldy Road from 2001 through September, 2009. This is about 23 accidents per year. Most are minor and involve passenger cars or light trucks. However, during the period there were 7 accidents with fatalities. About 5 to 6 accidents per year involve a rollover. No hazardous chemical spill was noted.)
- 5. Fires pose a hazard to water quality in the San Antonio Canyon Watershed. Over twenty large forest fires have been noted in the watershed since the USFS began keeping records in 1911. Causes of fires have included lightning, sparks from equipment, smoking, campfires, and arson. With the foreseen increase in the recreational use of the watershed, the potential for fires is believed to increase in the future. Impacts of the watershed fires include changes in water quality, loss of vegetation and subsequent erosion, and destruction or damage to facilities. (In 2004 the Padua Fire burned a large part of the watershed.)
- 6. The quality of the water from San Antonio Creek is excellent. The Cities of Pomona and Upland have no problem meeting the current drinking water requirements with respective existing treatment facilities. The facilities have continuous turbidity monitoring of the raw water. During times of high turbidity (during and shortly after storms), water is diverted from the respective water treatment plants to local recharge basins. The City of Pomona has upgraded the Pedley Filter Plant to meet reasonably anticipated future drinking water requirements. The City of Upland's San Antonio Canyon Water Treatment Facility is anticipated to meet future drinking water requirements. (Both facilities are meeting current drinking water requirements.)
- 7. Microbiological water quality data consisting of HPC and total and fecal coliforms is available for the watershed. Occasional spikes of high total and fecal coliform occur, however, there is a consistent pattern. Higher fecal coliform counts are more likely to occur in the summer and fall than other times. High fecal coliform counts are not necessarily associated with high total coliform counts.

#### Recommendations

- 1. Additional monitoring of the microbiological water quality was recommended to be performed to provide a baseline for evaluation of potential changes in water quality over time.
- 2. An aggressive education program should be conducted by the Agencies with the residents of the area to alert them of the need to protect the water quality since it is a drinking water source. The possibility of using local cable television

- should be explored. Programs with the local school and homeowners associations should be developed. (The USFS has a "Leave No Trace" and "Tread Lightly" program to educate visitors.)
- 3. Signs should be placed along the roadway, at streamside vehicle parking areas and overlooks, and at the intakes to inform visitors the water is used as a public drinking water supply. Signage should be placed at the entrance to the canyon reminding visitors not to dispose of used motor oil, other lubricants, or hazardous materials along the road. (Since the terrorist attacks on 9/11/2001 and the USEPA's mandated vulnerability assessments, calling attention to a water source may not be prudent any longer.)
- 4. The Agencies need to be informed of any modifications to existing wastewater disposal systems. A mechanism is needed to transmit this information from the County Building Departments to the Agencies. (The two major discharge sources, Mt. Baldy Village and the Mt. Baldy School have waste discharge permits issued by the Regional Water Quality Control Board, so that should mitigate any concerns for these facilities. These are the only two septic tank systems monitored now.)
- 5. A mechanism, including an emergency action plan, needs to be in place to alert the Agencies of vehicle accidents in the Canyon which could threaten to discharge chemicals or petroleum products into the stream.
- 6. Regular patrols of the watershed area should be performed during the height of the recreation season to identify potential problems and warn offenders. (SAWCO states that 4 or 5 times during the summer, personnel monitor the creek. Personnel also check the creek at the intake on a daily basis. USFS reports that a Prevention Officer visits the cabins twice per year and a follow-up staff person works with the cabin owners to ensure compliance with brush clearance and any water quality issues which are observed.)
- 7. The intake pipelines should be regularly inspected and tested for integrity. This should be done on an annual basis, preferably after the heavy spring runoff season. (The City of Pomona checks the pipelines after a heavy rainfall and has been in the process of replacing old sections of pipe.)
- 8. Sampling for Giardia and Cryptosporidium should be conducted quarterly at various locations in the watershed. One sample should be collected at each location. Samples should be taken during the periods of highest activity in the canyon (e.g. after a major holiday weekend). Test results should be submitted to the Department of Health Services (now CDPH) immediately after they become available. Based on the data, the Department of Health Services will make a determination as to whether or not annual sampling during the peak recreation season is adequate. (The Agencies have increased their Giardia and Cryptosporidium monitoring but this is not required to be sent to CDPH. This is presented in a later section of this WSS update.)
- 9. Total and fecal coliform sampling should be conducted monthly at the designated locations. Again depending on the results, the sampling frequency could be adjusted to effectively monitor water quality during periods of the year with traditionally heavier than normal or lower than normal coliform levels; however, samples shall be collected and tested bimonthly at the minimum.

(The Agencies have increased their microbiological monitoring. This is presented in a later section of this WSS update.)

# RECOMMENDED WATER QUALITY MONITORING PROGRAM FROM THE 2000 WSS

The Agencies monitor water quality at their respective treatment plant sites. At the Pedley Filter Plant (PFP) and San Antonio Canyon Water Treatment Plant (SACWTP), monitoring for turbidity and chlorine residual is conducted on a 24-hour basis using automated test equipment. Turbidity is analyzed at the influent, effluent, and in each step of the treatment process. Total and fecal coliforms, as well as HPC, are monitored weekly. Frequencies of other tests are as listed below in Table 2-1 (Table 6-1 in the 2000 WSS

Table 2-1
Testing Frequencies
Treatment of San Antonio Canyon Surface Flow

Test	Frequency PFP	SACWTP
Chemical Inorganic	1 per year	1 per year
Nitrate ¹	Quarterly	· N/A
General Mineral	1 per year	1 per year
General Physical	1 per year	1 per year
Radiological	4 consecutive quarterly samples per 4 years	1 per 4 years
VOC	1 per 3 years	1 per year
SOC (regulated)	1 per 3 years	Waived
SOC (unregulated)	1 per 5 years	Waived

¹After four quarters of nitrate monitoring, the City of Pomona may submit a written request to the Department of Health Services for a reduction of the sampling frequency to annual.

In addition it was recommended in the 2000 WSS that the following additional water quality monitoring be conducted:

Table 2-2 (Table 6-2 in 2000 WSS) Additional Water Quality Monitoring¹

Additional Water Quality Monitoring				
Frequency				
f Pomona, weekly water is introduced to at Evey Intake				
f Pomona, at least ually anytime water ced to pipeline at ke				
emi-annually ¹				
AFT November 2015 15-02				
* )				

P110

-	Cryptosporidium Oocysts	
Lower Intake	Giardia Cysts Cryptosporidium Oocysts	At least semi-annually; sample could be collected at the PWTP ¹

¹ These monitoring costs should be shared among the three agencies in some equitable cost-sharing arrangement. One of the Agencies should be designated to be responsible to ensure this monitoring is performed. The locations are presented in the 2000 WSS.

# REFERENCES

USDA Forest Service National Visitor Use Monitoring. http://apps.fs.usda.gov/nrm/nvum/results/A05001.aspx/Round3

# **SECTION 3**

# PROGRESS AND CHANGES SINCE 2010 WSS UPDATE

#### WATERSHED CHANGES

In general there were few changes in the watershed since the 2010 WSS Update; however there were some important changes which are identified below:

- 1. On Oct. 10, 2014, President Barack Obama designated 342,177 acres of existing federal lands in the Angeles National Forest and 4,002 acres in the San Bernardino National Forest as the San Gabriel Mountains National Monument. The National Monument eastern boundary appears to follow the N/S section line just west of Mt. Baldy Rd. up to the Glendora Ridge Road and then follows the westerly ridge of Mt. San Antonio Canyon northward and around the Mt. Baldy ski lifts. Since most of the watershed is outside the Monument Boundary, the National Monument designation will have minimal impact on the Creek and watershed.
- 2. Recreational activity is still a major pastime in the watershed. With the cost of fuel and the state of the economy, visitor use has continued to increase as people look to find recreational activities closer to home. San Antonio Canyon is an ideal location (USFS, 2011). Annual visitors to the ski area and Forest Visitors stopping at the Mt. Baldy Visitor Center are estimated to be 115,000 per year (Garner, 2011). In the past there was significant recreational activity in and adjacent to the Mt. San Antonio Creek streambed as witnessed by trash and debris accumulations in the watercourse. This has been reduced and the past practice of stunning fish with dumped bleach has all but ceased. (San Antonio Canyon Watershed Committee, 2015)
- 3. Portable chemical toilets have been placed at strategic locations where recreational activity is occurring. During the 2011 "drive through," portable toilets were observed near the end of the road at ski area parking.
- 4. There vault toilets constructed at the at the Icehouse Canyon trailhead parking area.
- 5. Mt. Baldy Ranch RV Park, a 272 space recreational vehicle park along Glendora Ridge Road, appeared vacant during the 2011 drive through. It is not known how many sites are occupied in summer. The site is actually in the Cow Canyon Watershed and would not impact the San Antonio Creek Watershed except for the possibility of traffic up Mt. Baldy Rd and the impact on water supply.
- 6. It is believed the ski area will be expanded. The USFS has stated that there has been no Master Development Plan formally submitted. So any expansion would not expected until some time in the future. The designation of a portion of the "backside" of Mt. Baldy in the National Monument may limit the amount of expansion.

- 7. The ski area has a 9 million gallon (MG) reservoir for snow making which is fed through the Snow Crest Heights Water Association. However the USFS only permitted 6 MG of storage and has placed a limit on the amount of water than can be stored in the reservoir. The ski area has an agreement (1999) with SAWCO for water from the Falls. Any additional capacity will require concurrence from SAWCO and the USFS.
- 8. There is a move to designate a section of San Antonio Creek from the Falls north to its source on Mt. San Antonio as "WILD and SCENIC". This designation prohibits the federal government from licensing or permitting new hydroelectric dams or major diversions on protected stream segments. The federal government may license water resource projects upstream of downstream of protected segments as long as the projects do not unreasonably diminish the stream. Public lands within an average quarter-mile wide corridor on both sides of the stream are managed to protect their outstanding scenic, recreational, historical/cultural, fish, wildlife, ecological, geological, and hydrological values. It has no effect on existing water rights. This is still a state authority. There is a federal water right conferred by the designation, but it begins the date of designation and is junior to all other existing rights. To exercise the right the managing federal agency must apply to the state and follow existing procedures and law. (Friends of the River, undated)
- 9. The US Fish and Wildlife Service (USFW) recently published an undated draft "Recovery Plan for the Santa Ana Sucker (*Catostomas santaanae*) which envisions re-introducing the fish into San Antonio Creek and other rivers and creeks in the Santa Ana, San Gabriel, and Los Angeles River watershed. It is a "threatened species" under the Endangered Species Act of 1973 and as amended. The treat, as stated in the draft report is "ongoing, range-wide, hydrologic modifications which lead to degradation and loss of habitat" (USFW, undated). The goal of the plan is to control or reduce threats to the point where it no longer requires special protection and hence can be "delisted."

Figure 1 of the report clearly shows the Santa Ana Sucker is not currently found in San Antonio Creek but the report states the species is limited by artificial barriers such as dams and drop structures and that is the reason that they may not be found in some of the watersheds compared to historical conditions. Historical data is sketchy, at best, to verify if the fish ever inhabited San Antonio Creek. There is a limit where the fish are likely to occur and that is due to its ability to physically swim upstream in strong currents. The report sets the limits of the stream gradient to 7 degrees (≈12%), based on USFW observations in the North and East Forks of the San Gabriel River. San Antonio Creek does not exceed a 12% gradient until a point above Ice House Canyon, so essentially all of the stream below Ice House Canyon and the mouth of the San Antonio Canyon is potential habitat. The report states that adequate water quantity and quality are important for the persistence of the fish in urbanized areas. They need perennial flows with suitable food to support continued life.

The introduction of the fish into San Antonio Creek would not impact the sanitary quality of the water, but very likely could compromise agreements that SAWCO has with Southern California Edison relative to diversions in the Canyon and impact the ability to perform maintenance in the Creek for sediment and debris control. If streamflow must be maintained downstream of the water intakes, that

- will impact the amount of water which can be diverted from the Creek. Letters of opposition have been written to USFW by SAWCO, the cities of Upland and Pomona, and the Six Basins Watermaster among others.
- 10. The San Antonio Canyon Watershed Committee continues to meet on a regular basis. "The San Antonio Canyon Watershed Committee is committed in developing partnerships both public and private in working together toward common goals involving monitoring of source water quality, protecting the qualities of life and vitality of land users in the watershed and its beneficiaries." The committee is comprised of the cities of Pomona and Upland, the San Antonio Water Company, San Antonio Canyon Mutual Service Company, Snow Crest Heights, Mt. Baldy Homeowner's Association, Alpine Water, the US Forest Service and Southern California Edison (SCE).
- 11. In February 2006, the San Antonio Canyon Protection Plan Steering Committee issued a Best Management Practices (BMP) guidebook (Steering Committee, 2006). The BMPs center around watershed management, water quality and education and communications. Any updates?
- 12. The California Highway Patrol Accident Reporting Database was searched for incidents along Mt. Baldy Road and Shinn Road to determine if there were any accidental spills of hazardous material. Spills have not been an issue. During the period January 2001 through September 2009, there were about 200 accidents involving motor vehicles. Most are minor; though there were 7 fatalities in the period. Rollovers, which present the greatest water quality threat, average about 5 or 6 per year.

# 13. Any fires?

- 14. The Regional Water Quality Control Board, Los Angeles Region issued a waste discharge permit to SACMSC for the Mt. Baldy Village Treatment Facility and the Mt. Baldy School septic tank. This permit requires regular monitoring and reporting.
- 15. The US Forest Service has renewed cabin Special Use Permits in 2008 for another 20 years. Previous WSS had indicated that these permits were not to be extended. Anything new?
- 16. The City of Pomona's Pedley Filter Plant instrumentation has been upgraded within the past few years to replace the older model turbidimeters and particle counters. Also spent backwash water is no longer recycled back to through the treatment process. Another 3.5 MG prestressed concrete clearwell was added bringing the total clearwell capacity to 7 MG. Anything new 1.
- 17. The City of Upland's San Antonio Canyon Water Treatment Facility was upgraded in 2007 which included new turbidity instrumentation for influent turbidity, effluent turbidity, and individual filter turbidity. Anything new? On site generation or bulk-liquid hypo??
- 18. The Watershed Committee continues with its annual clean-up program in the watershed and its "keep it clean" logo.
- 19. Samples for Giardia and Cryptosporidium were taken at regular intervals at the Evey Intake, Middle intake, Upper intake and Ice House Canyon. This data is presented herein.

- 20. It is recommended that the USFS "Leave No Trace" and "Tread Lightly" programs replace the formal signage. Still ok
- 21. SAWCO makes 4 or 5 "walks" of the creek during the summer to observe the condition. The intake at the 60/40 split is monitored daily. Verify
- 22. The USFS makes twice per year inspections of the Special Use Permit cabins for brush clearance and water quality issues. A second staff person works with the cabin owners to develop plans for compliance. There are follow-on inspections. The Special Use Permits can be suspended or revoked. Verify with USFS
- 23. On the day of the site visit to the intake (January 12, 2011), the County of Los Angeles had a contractor cleaning debris and sediment in the creek at the Shinn Road Bridge crossing. This work raised the turbidity in the creek. Apparently the contractors working in the creek, are not aware there is a water intake downstream and their actions could cause the treatment plants to shut down. It is recommended that there be better coordination between construction and maintenance crews and the water agencies.
- 24. The City of Pomona regularly inspects intake pipelines after a heavy rain and annually.

# FOLLOW-UP ON RECOMMENDATIONS IN 2010 WATERSHED SANITARY SURVEY

The 2010 Watershed Sanitary Survey contained a number of recommendations. A follow-up on those recommendations:

1. The cryptosporidium and giardia monitoring currently carried out at the Upper, Middle, Lower Intake and Ice House Canyon should be reduced to once every 2 years.

This was not agreed to by CDPH; monitoring is once per year in July.

- 2. The City of Pomona should carefully monitor the total coliform and E. coli in the Evey Canyon intake and try to identify the sources if possible.
  - Ongoing; intake was cleaned of debris since last sanitary survey.
- 3. The USFS should keep the Watershed Committee (and the Agencies) informed of their inspections of the cabins and compliance orders.

This is not occurring and remains an issue.

4. The Watershed Committee should receive copies of the reports prepared by the SACMSC for the Regional Water Quality Control Board.

This has not occurred; SACMSC agrees to furnish copies of the reports. (Watershed Committee, 2015)

5. The intake pipelines, including the SCE pipelines should be inspected on an annual basis, preferably after the heavy spring runoff season. (This was one of the recommendations in the 1995 WSS and should be discussed at the Watershed meetings since SCE is a member of the Committee.)

City of Pomona is doing this on an annual basis. (Watershed Committee, 2015)

 A mechanism needs to put in place, if it is not already in place, to alert the Agencies of vehicle accidents which could discharge chemicals or contaminants into the watercourse. (This was one of the recommendations in the 1995 WSS also.)

This is not implemented. Passenger vehicles and small trucks could be involved in accidents releasing small amounts of fuel which pose a threat, but there are no fueling stations in the canyon, so the chances of a large spill of a hazardous chemical such as gasoline is very remote. However, there are septic tank pumpers that do travel the canyon and an accident could result in septage being dumped into the creek which could make its way to the water intakes. Some form of rapid notification should be in place so the intakes can be shut off.

7. The Agencies in conjunction with the USFS should continue and, if possible, expand their public education program of the need to protect the San Antonio Creek watershed. (This was one of the recommendations in the 1995 WSS also.)

This has not been implemented; the Watershed Committee continues to take the lead in this area.

8. The County of Los Angeles and the County of San Bernardino Building and Safety Departments should notify the Watershed Committee when there are modifications or replacements of existing septic tank systems or any new systems installed or failure or overflow of existing systems.

This has not been implemented.

9. The USFS should locate the septic tank and leach field at the Lower San Antonio Fire Station at Shinn Road and provide the Watershed Committee with a report on when it is pumped.

This has not been completed.

10. The USFS should require special use cabin owners (or the septic tank pumpers) to provide records to the USFS when these cabin septic tanks are pumped. These reports should be provided to the Watershed Committee on an annual basis.

This has not been implemented.

11. There needs to be communication between the Los Angeles County Department of Public Works Crews and Contractors when they are planning on working in the Creek as the impact on the water supply intakes from the turbidity is significant.

Still very important and no formal communication process has been implemented.

12. Water meters should be installed on all water services, including the special use cabins, to monitor water use and enforce conservation.

There is no plan to install water meters to individual residences.

## RECOMMENDED WATER QUALITY MONITORING PROGRAM

 The Agencies should continue to monitor water quality at the treatment plant sites and in the canyon as required by the CDPH as it relates to their water supply permit.

The Agencies are complying.

2. Cryptosporidium and giardia sampling should be reduced to once every two years. See Table 6-1

CDPH did not accept the "once every 2 year sampling" and it continues at annual intervals in July.

Table 6-1
Coliform, Giardia and Cryptosporidium Water Quality Monitoring¹

Location ²	Parameter	Agency/Frequency
Ice House Canyon	Giardia Cysts	By SAWCO, Every 2 years, in
-	Cryptosporidium Oocysts	Spring when flowing
Evey Canyon Intake	Total Coliform	By City of Pomona, weekly
•	Fecal Coliform or E. Coli	anytime water is introduced to
		pipeline at Evey Intake
Evey Canyon Intake	. Giardia Cysts	By City of Pomona every 2
	Cryptosporidium Oocysts	years
Upper Intake, Middle Intake	Giardia Cysts	By SAWCO, Every2 years
	Cryptosporidium Oocysts	
Pedley Filtration Plant Raw	Giardia Cysts	By Pomona, Every 2 years
Water Inlet ²	Cryptosporidium Oocysts	

¹ These monitoring costs should be shared among the three agencies in some equitable cost-sharing arrangement. One of the Agencies should be designated to be responsible to ensure this monitoring is performed.

^{2.} No need to sample at Lower Intake separately. The water quality from a Giardia/Cryptosporidium standpoint at the Lower Intake is expected to be similar to that obtained at the Pedley Filtration Plant inlet.

# **SECTION 4**

# WATER QUALITY

Data on various water quality parameters was collected for the period from 2011 through 2015 by the San Antonio Water Company, the City of Pomona and the City of Upland Water Departments. This data is presented graphically in this section. The raw data is included in Appendix A. To avoid "breaking up the text" with numerous tables and figures, all of the figures and tables are included together at the end of this section.

#### SAN ANTONIO WATER COMPANY DATA

SAWCO provided Giardia and Cryptosporidium sampling and analyses for the Icehouse Canyon and the Upper and Middle Intakes. This data is combined with the City of Pomona Giardia and Cryptosporidium sampling and analyses for the Pedley Filtration Plant Raw Water and Evey Canyon and presented later in this section.

#### CITY OF POMONA WATER QUALITY DATA

The data from the City of Pomona includes:

- Raw Water Data from Evey Canyon primarily microbiological
- Raw Water Data from Pedley Filtration Plant consisting of flow, turbidity, microbiological, general mineral, and organics,
- Treated Water Data from Pedley Filtration Plant consisting of turbidity, microbiological, general mineral, and organics.
- Distribution system disinfection by-products

#### **Pedley Filtration Plant Flow**

Figures 4-1 presents the average monthly production from the Pedley Filtration Plant for the period 2011 - 2015.

2011 - 2015

Maximum Day

4.08 mgd

Monthly Average

1.64 mgd

Monthly Average Maximum 3.65 mgd

#### **Pedlev Raw Water Turbidity**

Figure 4-2 presents the daily maximum raw water turbidity for the period 2011 to 2015 summarized by month. The figure shows the highest and lowest maximum raw water turbidity experienced during the month along with the monthly average maximum turbidity.

Figure 4-3a and 4-3b presents the 2011-2015 monthly average and maximum raw water turbidity in the form of a cumulative probability plot respectively. Historic data from previous watershed sanitary surveys is also presented for comparison. The data is similar to previous periods; however, in August 2014 there was a period of relatively high raw water turbidity, 20 NTU, for several days which pushed the cumulative probability to the right, beyond that experienced in previous periods. Any reasons??? Over 90% of the time the average raw water turbidity was less than 1 NTU.

A statistical analysis was made comparing the 2011-2015 average turbidity with previous average raw water turbidity to see if there was statistically significant difference. An independent t-test was used to compare the means (averages) of the two data sets. In spite of the differences apparent on the cumulative probability plot, within a 95% confidence level, there is no difference between 1995-99 and 2001-05 averages. This needs to be done once all 2015 data is in.

# **Pedley Treated Water Turbidity**

Figure 4-4 presents a summary of daily average treated water turbidity by month for the period 2011-2015. The figure shows the maximum and minimum values recorded during the month along with the average for the month. The treated water turbidity Maximum Contaminant Level (MCL) is 0.3 NTU 95% of the time.

# **Pedley Raw Water Microbials**

Raw water Total Coliform, Fecal Coliform and Heterotrophic Plate Count (HPC) data from the inlet were analyzed for the period 2011 -2015. HPC is a measure of any heterotrophic bacteria present in a sample (Heterotrophic bacteria that use carbon for energy and cell growth.) They are not necessarily harmful bacteria (pathogens), but do provide a general indicator of the water quality condition. It is not unusual to see high counts in raw water.

Figure 4-5a presents the Total Coliform from grab samples generally taken about once per week at the raw water inlet to the treatment plant. The figure shows the maximum, minimum and geometric mean for the samples taken during the month. The geometric mean was used since this is frequently used to determine the averages of bacteria samples due to the large variations in magnitude. The concentrations of coliforms are presented as "Most Probable Number" (MPN) per 100 mL of water.

Figure 4-5b presents the fecal coliform concentrations; Figure 4-5c presents the HPC data for the Pedley Filtration Plant raw water.

Table 4-1 presents a summary of the coliform data for the period 1995-99, 2001-05, 2006-10 and 2011-15. The data in Table 4-1 show that the total coliform vary but the fecal coliform are relatively constant even over the 20 year period. (To be completed when 2015 data available)

# Table 4-1 Pedley Filtration Plant Coliform Summary (MPN/100 mL)

	1995-99	2001-05	2006-10	2011-15
Average Total Coliform (MPN/100 mL)	1486	323	731	
Average Fecal Coliform(MPN/100 mL)	35	34	41	
Average E. coli(MPN/100 mL)	Not determined	Not determined	35	Not determined
Average HPC (CFU/mL)	132	228	164	,

Figures 4-6a through 4-c present cumulative probability plots of total coliform, fecal coliform and HPC for 5 study periods from 1987-94 to 2011-15.

Total and fecal coliform for the period 2011 -2015 was as low as the best previous period. HPC counts are very comparable to previous periods.

The only conclusions that can be made are that the watershed is likely not changing much – the fecal coliform concentrations do not vary much for the 20 year period.

# Pedley General Physical and Mineral Quality

Table 4-2a presents the General Physical and Mineral Quality Summary for the both the raw and treated water from 2010-2015. For the most part there is little difference between the raw and treated water from a mineral standpoint since the Pedley Filtration Plant is not designed (or intended) to remove minerals or hardness. Table 4-2b presents the raw water quality for the period 2006 – 2010. Table 4-2c presents a side-by-side comparison of the raw water characteristics over time from 1994 through 2015. Reviewing Table 4-2c shows that very little change is occurring in the water quality.

# **Pedley Treated Water Organics**

Table 4-3 presents data on the treated water organics. All of the listed organics are shown to be below detection levels. No data was available for the period before 2006 as it was archived by the City of Pomona.

#### **Evey Canyon Raw Water**

Water from Evey Canyon is introduced into the pipeline from the 60/40 weir box to the Pedley Filtration Plant, i.e., downstream of the 60/40 weir box. The water is sampled by the City for Total Coliform, Fecal Coliform, E. coli, and HPC. Figures 4-10a through 4-10d present the maximum, minimum and geometric mean values of the concentration of these microbials based on grab samples collected approximately weekly. It was only since 2005 that the City sampled Evey Canyon.

Figure 4-11a presents a cumulative probability plot of fecal coliform and E. coli geometric means. The figure shows that the fecal coliform at the Evey Canyon inlet is primarily E. coli. Figure 4-11b presents a cumulative plot of the mean of the E. coli measured at Evey Canyon versus the E. coli measured at the Pedley Filtration Plant Inlet. Based on Figure 4-11b, it could be concluded that a large portion of the E. coli measured at the Pedley Filtration Plant inlet is due to the Evey Canyon intake. This should be confirmed with additional monitoring and investigation.

# City of Pomona Disinfection By-products

Tables 4-4a and 4-4b present a summary of the quarterly sampling for Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAA5). (The "5" designates there are five individual compounds measured and totalized.) For TTHMs the maximum measured at any location in the system is shown in Table 4-4a. All of the individual values are less than the MCL of 80 µg/L. But it should be pointed out that the MCL is currently based on the system-wide annual average of the last 4 quarterly samples. Since the City of Pomona uses a lot of groundwater, which has a very low potential to form disinfection by-products, compliance is not an issue. In the near future calculation of the concentration will change to a locational running annual average (LRAA) which means that each sample station will need to comply with the MCL based on the average of the last 4 quarterly samples. Again, since the maximum value measured is less than the MCL and knowing that there will be some groundwater blended in with the treated surface water, compliance will not be an issue. The table also shows the results if the LRAA calculation method were used on the historic data.

Table 4-4b shows the haloacetic acids. The MCL is  $60 \mu g/L$  again based on the same method of calculation as TTHMs. The City will not have an issue complying with the regulations in the future. The table also shows the results if the LRAA calculation method were used on the historic data.

# CITY OF UPLAND WATER QUALITY DATA

The data from the City of Upland includes:

- Raw Water Data from San Antonio Canyon Water Treatment Plant (SACWTP) Raw Water– primarily microbiological and turbidity
- Distribution system disinfection by-products

#### **SACWTP Plant Flow**

Figures 4-12a presents the average monthly production from the SACWTP for the periods 2001 -2005. (2006 – 2010 was not provided).

2001 - 2005

Maximum

4.36mgd

Average

1.3 mgd

2006 - 2010

Not Provided

# **SACWTP Raw Water Turbidity**

Figure 4-13a presents the daily average raw water turbidity for the period 2000 to 2005 summarized by month taken from the monthly CDPH reports. The figure shows the highest and lowest average raw water turbidity experienced during the month along with the monthly average maximum turbidity.

Figure 4-13b presents the greatest and the least maximum raw water turbidity experienced during the month along with the average maximum turbidity for the month. based on daily values. Data on the average turbidity was not provided. The maximum value is 20 NTU. Note that data was not available from 2006 to 2008 and 2010.

## **SACWTP Treated Water Turbidity**

Figure 4-14a presents a summary of daily average treated water turbidity by month. There is one "spike" in the turbidity; but that was less than 1 NTU; this is not a "violation." The treated water turbidity Maximum Contaminant Level (MCL) is 0.3 NTU 95% of the time.

Figure 4-14b shows the monthly average treated water turbidity from 2006 - 2010. Again the plot shows the daily maximum and minimum average turbidity during the month along with the monthly average. The values are all well below the MCL of 0.3 NTU 95% of the time.

#### **SACWTP Raw Water Microbials**

Raw water Total Coliform, Fecal Coliform and Heterotrophic Plate Count (HPC) data were analyzed. From 2006 on, E. coli species were analyzed in lieu of generic "Fecal Coliform." E. coli is a fecal coliform but there are also many other fecal bacteria that are measured as fecal coliform. HPC is a measure of the bacteria present in a sample. They are not necessarily harmful bacteria (pathogens), but do provide a general indicator of the water quality condition. It is not unusual to see high counts in raw water.

J. C. Reichenberger PE Consulting Engineer Monterey Park, CA 91755 8/11/2011

Figure 4-15a presents the Total Coliform from grab samples generally taken about once per week at the raw water inlet to the treatment plant for the period 2001-2005. The figure shows the maximum, minimum and mean for the samples taken during the month. The concentrations of coliforms are presented as "Most Probable Number" (MPN) per 100 mL of water. Figure 4-15b shows similar data for 2006 – 2010.

Figure 4-16a present the fecal coliform concentrations for the period 2001-05. Figure 4-16b presents the E.coli concentrations for 2006- 2010. Figure 4-17a and b present the HPC data for 2001-05 and 2006-10 respectively

Table 4-5 presents a summary of the coliform data for the period 2001-05, and 2006-10.

Table 4-5 SACWTPt Raw Water Microbial Summary

		2001-05	2006-10
Average Total (MPN/100 mL)	Coliform	323	97
Average Coliform(MPN/100 r	Fecal nL)	34	Not determined
Average E. coli(MPN/100 mL)		Not determined	6
Average HPC (CFU	/mL)	228	42

Figures 4-18a and 4-18b present cumulative probability plots of total coliform, and fecal coliform or E. Coli to compare 2001—05 with 2006-10. The period 2001-05 showed much higher total and fecal coliform levels in the raw water than the period 2006-10.

Figures 4-19a and b present a comparison between the raw water total coliform and fecal coliform (or E.coli) respectively as noted at SACWTP, Evey Canyon and the Pedley Filtration Plant. The study period for comparison was 2006 -10. The total coliform concentration in the raw water at the SACWTP is much less than that measured at Evey Canyon and the Pedley Filtration Plant inlet. The same holds true for fecal coliform or E. coli. This tends to support the previous conclusion that the large amounts of the coliform bacteria experienced at the Pedley Filtration Plant come from the Evey Canyon water. This should be evaluated further.

# City of Upland Disinfection By-products

Tables 4-6a and 4-6b present a summary of the quarterly sampling for Total Trihalomethanes (TTHMs) for the period 2001 - 05 and 2006 -10 respectively. For the TTHMs the maximum value at any location was at T-1 in pressure zone 5 where a quarterly value was 129.7  $\mu$ g/L. Although the current MCL is 80  $\mu$ g/L the City is in compliance, because the MCL is based on the average of 4 quarterly samples taken at all points in the distribution system. Since the City uses some groundwater, the TTHMs are "blended down" because the groundwater does not have much of a TTHM formation potential. The future MCL will be based on using the locational running annual average (LRAA) of the last 4 quarterly samples. Tables 4-6a and b show the LRAA if calculated

using the historical data. For the period 2001 -05, only T-1 would not have been in compliance (86  $\mu$ g/L vs MCL = 80  $\mu$ g/L).

It is also worth noting that the maximum quarterly sample concentrations dropped dramatically in the subsequent period from 2006-10 with all values being under the 80  $\mu$ g/L MCL. The LRAA calculated for this period for all of the sampling locations were also well under the MCL.

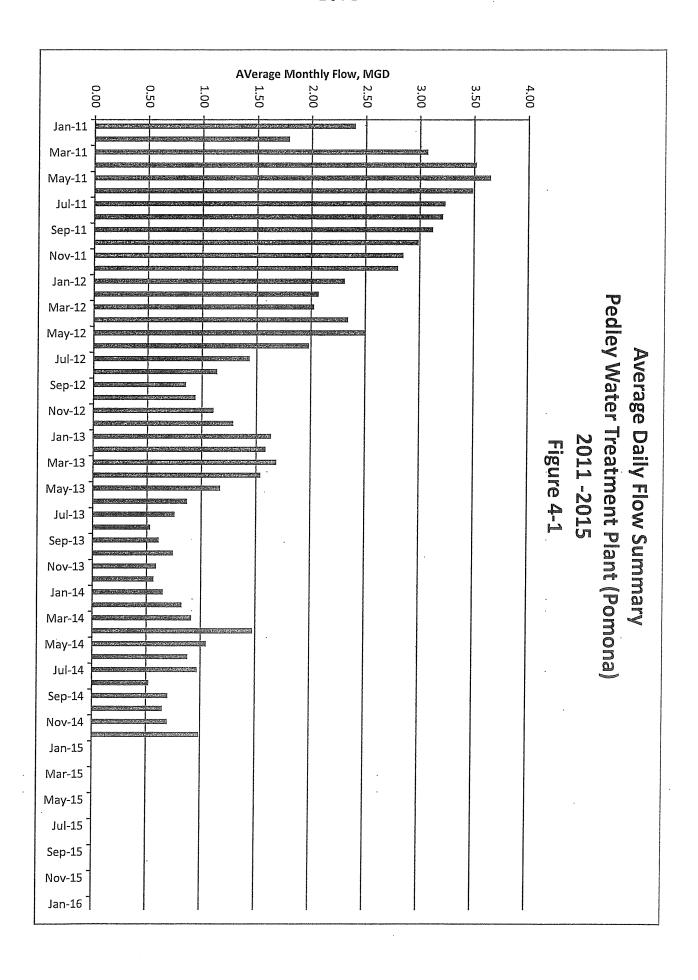
It can be concluded that the City should not have any problems meeting the LRAA for TTHMs in the future if it operates similar to the period 2006 – 10.

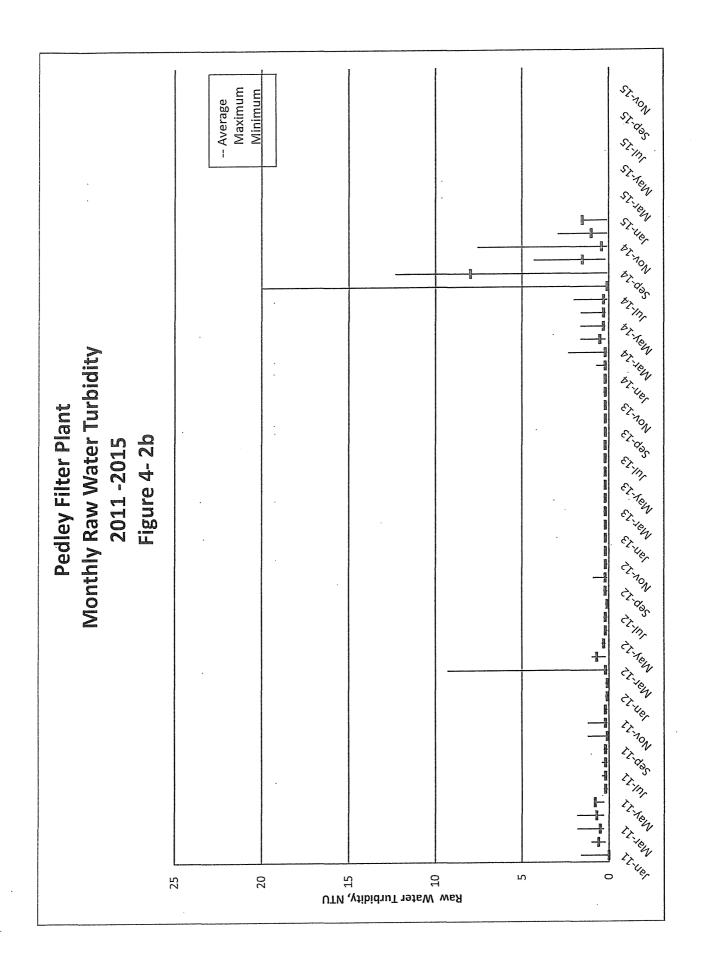
Table 4-7a and b present a summary of the haloacetic acids (HAA5). (The "5" designates there are five individual compounds measured and totalized.) The MCL for HAA5 is 60 µg/L again based on the same method of calculation as TTHMs. The City will not have an issue complying with the regulations in the future.

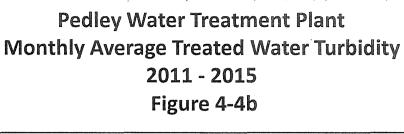
#### GIARDIA & CRYPTOSPORIDIUM SAMPLING

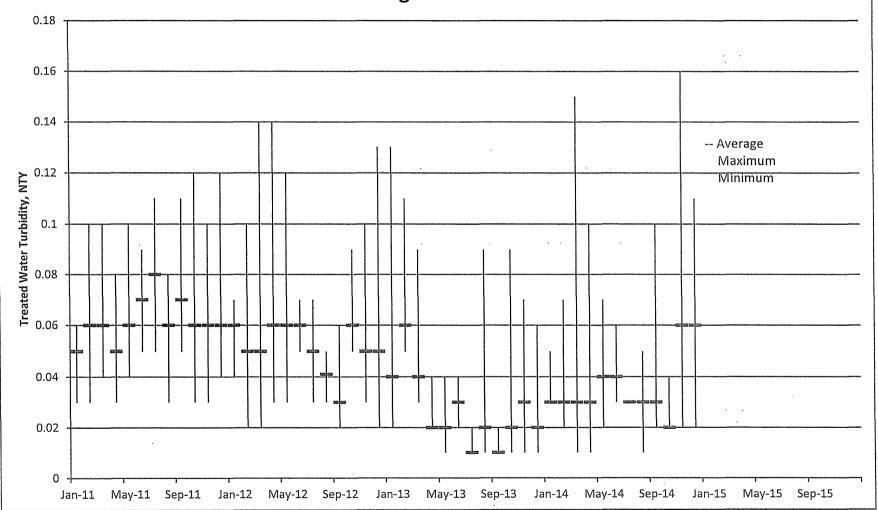
Water samples are collected an analyzed for Giardia and Cryptosporidium periodically at the inlet to the Pedley Filtration Plant and at the Upper, Middle and Lower (Edison Box) Intakes as well as Ice House Canyon. The results are shown in Tables 4-8 and 4-9. The data shows that Giardia and Cryptosporidium are not of concern. There is no definite trend showing any increases. The most recent sampling 7/6/2010 was taken right after the 4th of July weekend, a time when recreational use of the stream and canyon is particularly high. That sample showed no presence of either organism.

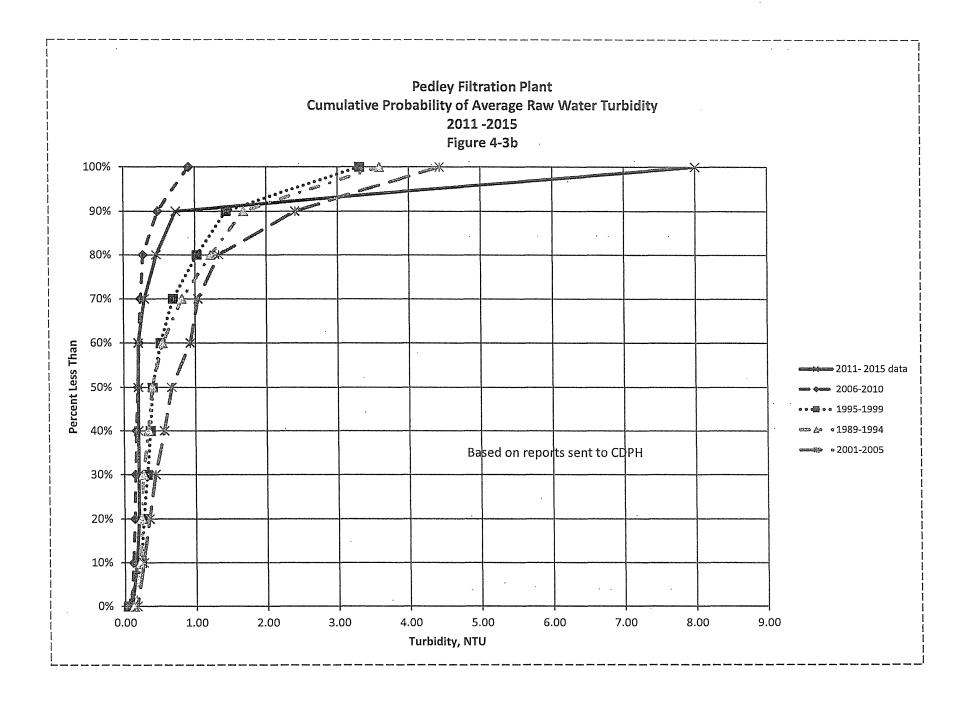
At this time that the watershed does not have a Giardia or Cryptosporidium problem.

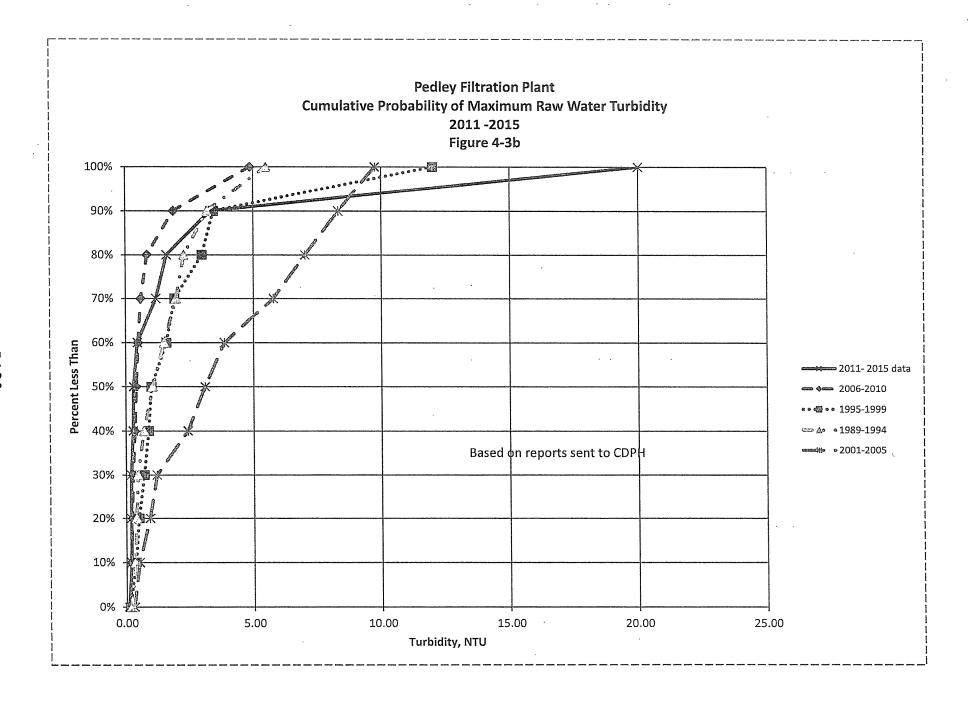


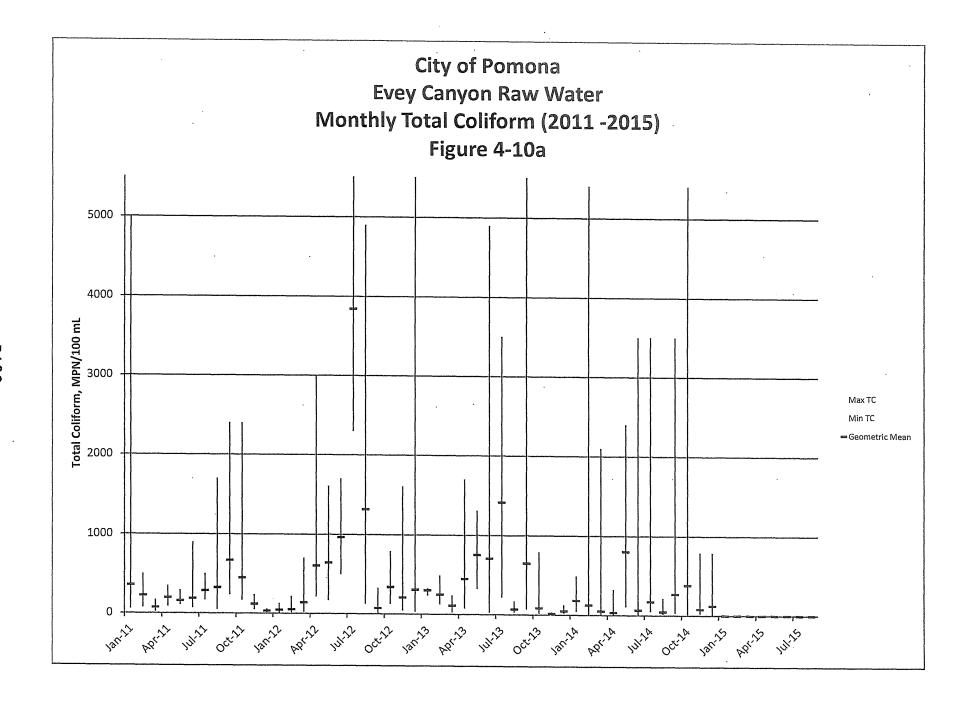


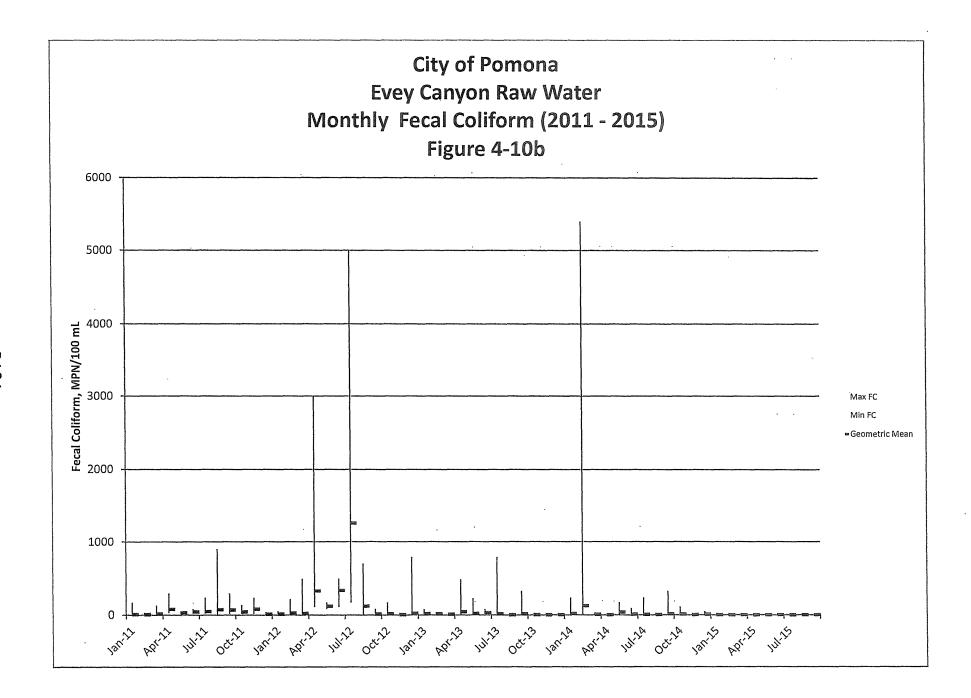


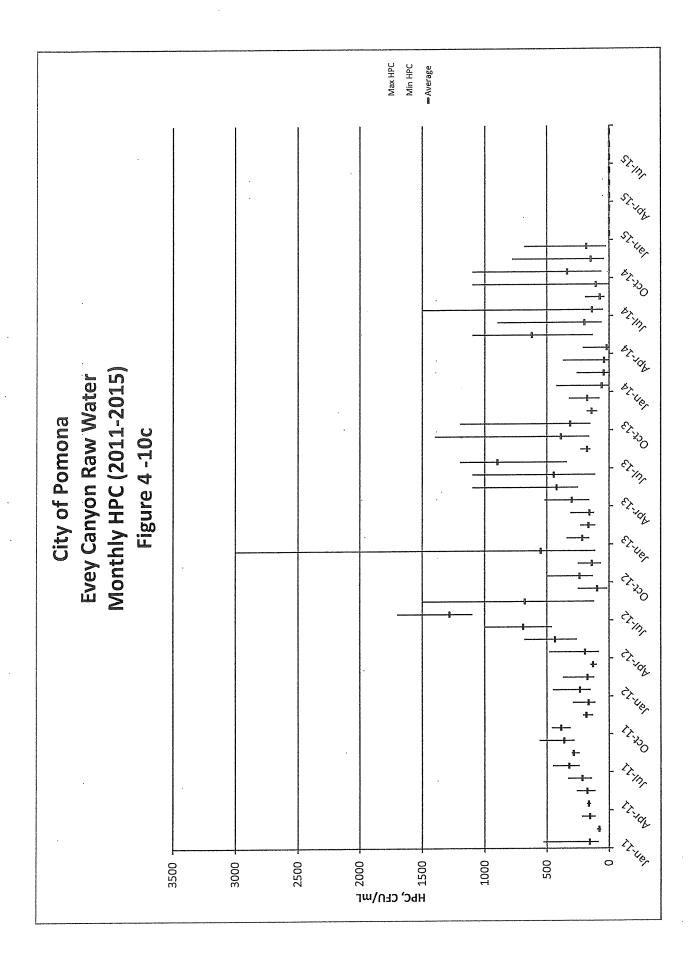


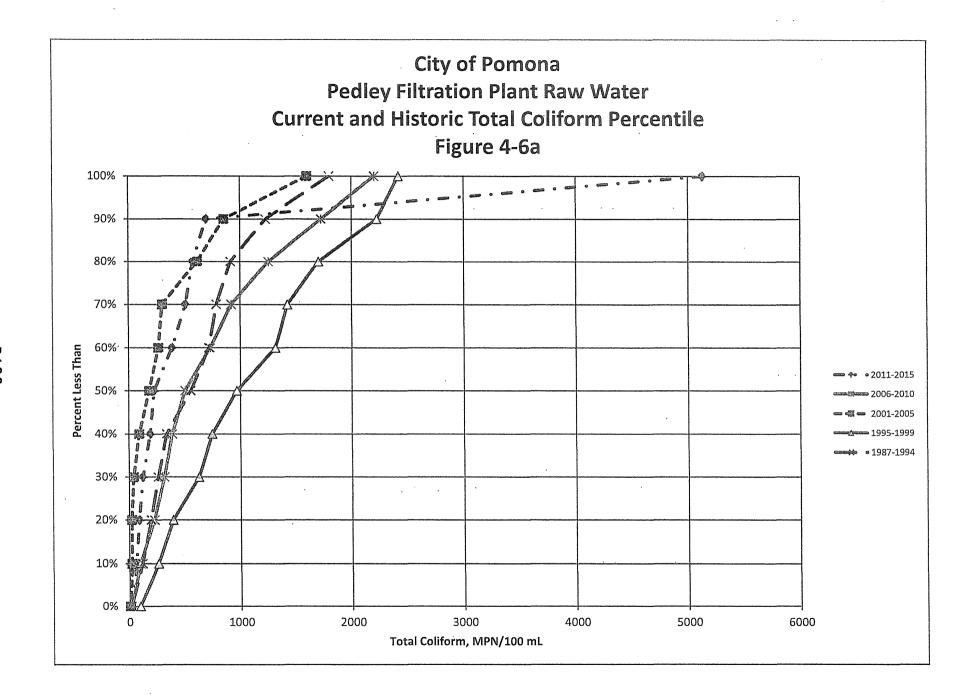


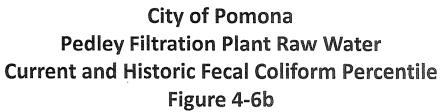


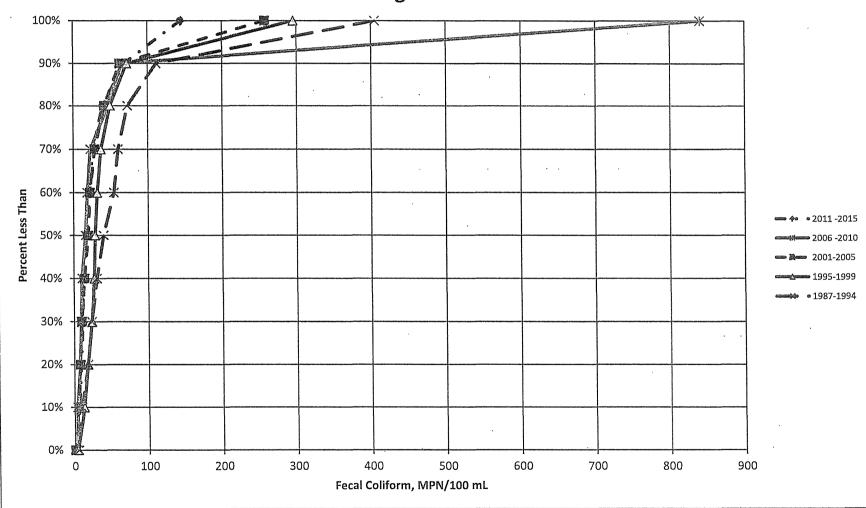


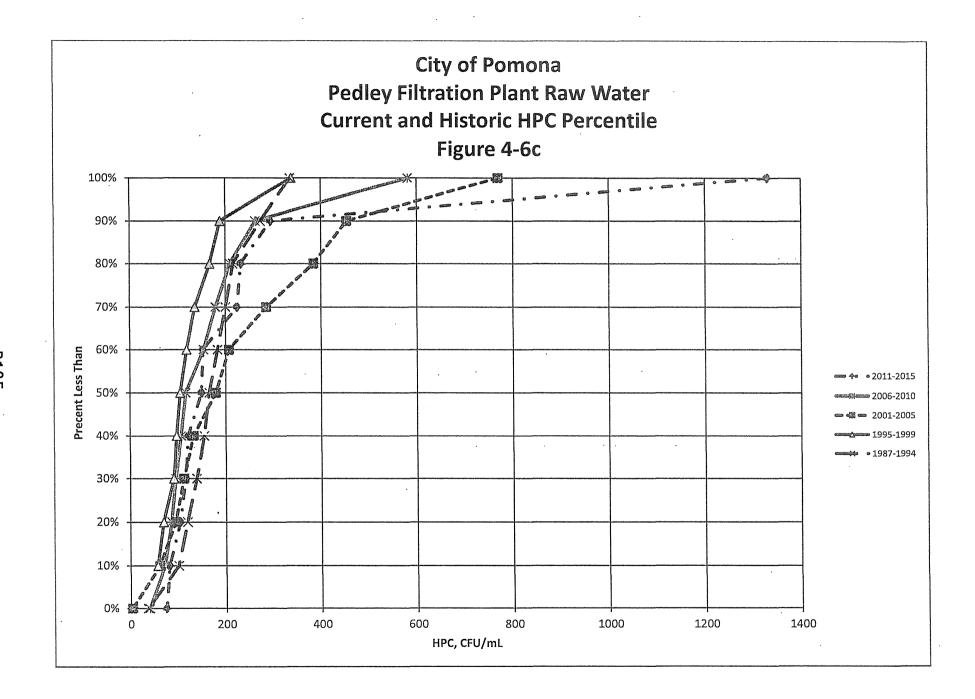


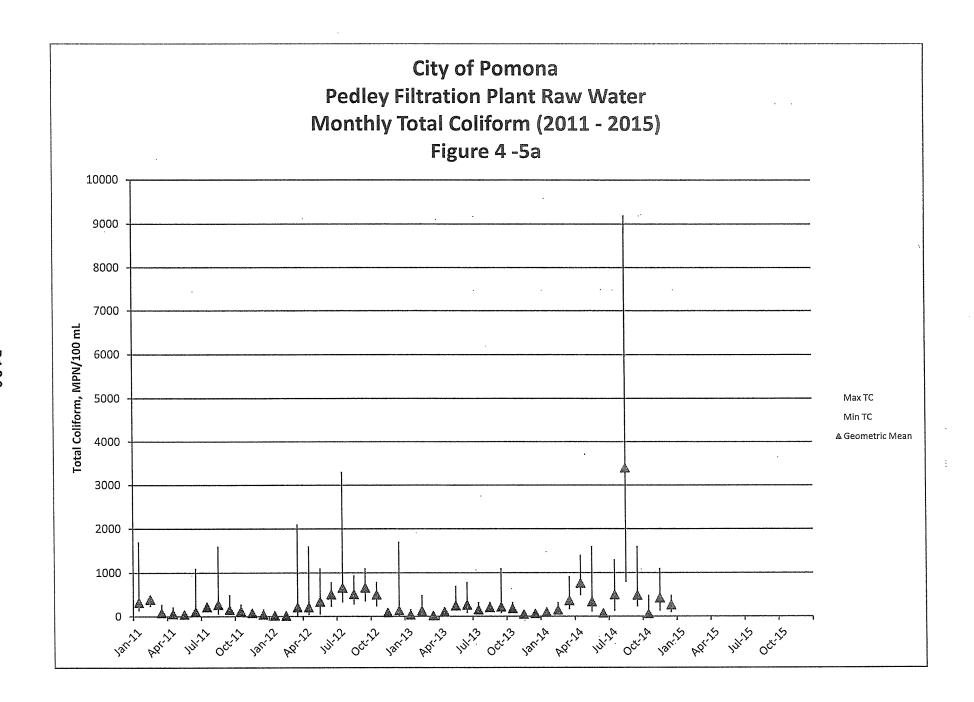


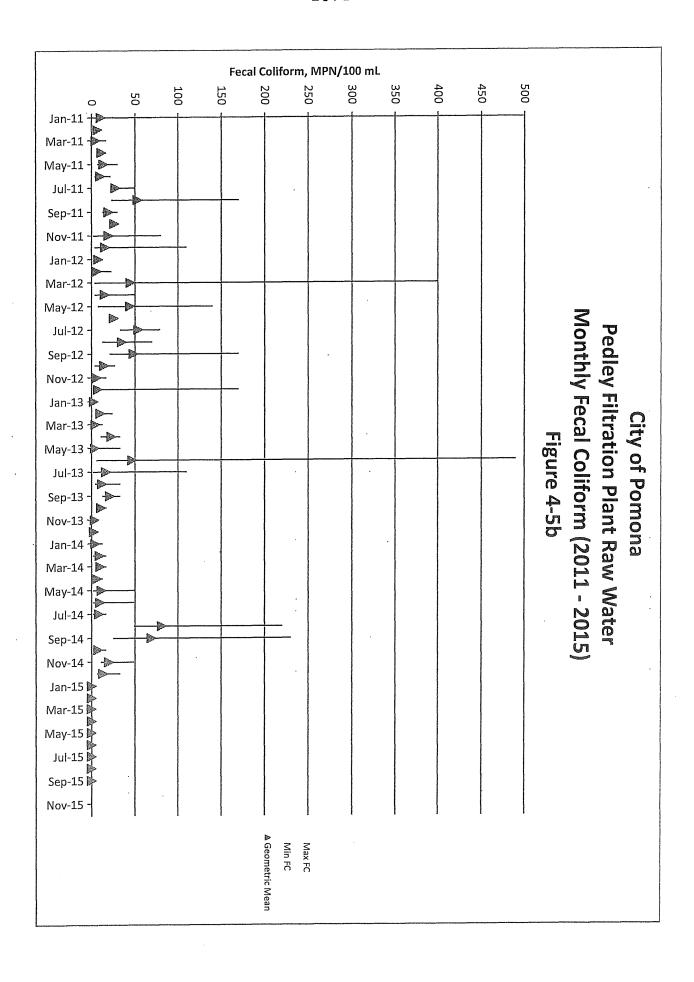


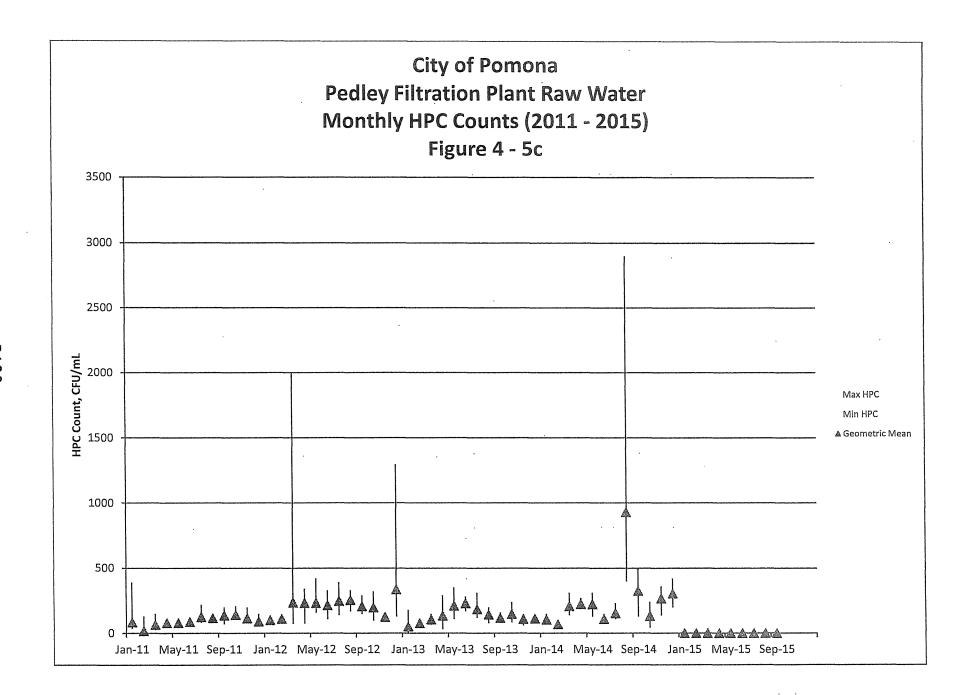












PFP-R	Crypto (oocyst/L)	Giardia (cyst/L)			
10/10/2006	<0.08	<0.08			
11/14/2006	<0.1	<0.1			
12/12/2006	<0.09	<0.09			
1/9/2007	<0.09	<0.09			
2/13/2007	<0.09	<0.09			
3/13/2007	<0.09	<0.09			
4/10/2007	0	0			
5/8/2007	0	0			
6/12/2007	0	0			
7/10/2007	0	0			
8/14/2007	· 0	0			
9/11/2007	. 0	0			
10/9/2007	0	0			
11/13/2007	0	0.09			
12/11/2007	0	0			
1/8/2008	0	0			
2/12/2008	0.186	0			
3/11/2008	0	0			
4/8/2008	0	0			
5/13/2008	0	0			
6/10/2008	0	0.09			
7/8/2008	0	. 0			
8/12/2008	00	0			
9/9/2008	0	0			
8/26/2009	0	0			
4/26/2010	0.093	0.093			
7/6/2010	<0.09	<0.09			
4/20/2011	0.093	<0.09			
7/6/2011	<0.09	<0.09			
7/9/2012	<0.09	<0.09			
7/8/2013	<0.09	<0.09			
7/15/2014	<0.09	<0.09			

Evey Canyon	Crypto (oocyst/L)	Giardia (cyst/L)
4/26/2010	<0.089	<0.089
7/6/2010	<0.10	<0.10

				Volume			Crypto	Giardia
Location	Sample Dale	Sample Time	Lab ID No	Filtered, L	Crypto Cysts	Giardia Cysts	(oocyst/L	cyst/L)
Ice House Canyon	4/26/2005	11:30	2504280584	11	0	0	<0.09	<0.09
Ice House Canyon	7/5/2005	10:32	2507070126	10.75	1	0	0.09	< 0.09
Ice House Canyon	5/17/2006	12:30	2605220156	10.75	0 .	ο.	< 0.09	< 0.09
Ice House Canyon	4/23/2009	8:45	2905140107	11	0	0	<0.09	<0.09
Ice House Canyon	4/26/2011	10:31	110770-001	11	0	0	<0.1	<0.1
Ice House Canyon	7/7/2015	9:05		10.5	0	0	10.5	<0.09
Lower Intake	4/23/2009	8:15	2905140109	11	2	0	0.182	<0.09
Lower Intake Edison Box	4/16/2003	9;00	2304170069	10.93	0	0	<0.09	<0.09
Middle Intake	7/3/2003	12:00	2307310016	11	0	0	<0.09	<0.09
MIddle Intake	6/1/2004	10:00	2406300351	11	0	0	<0.09	<0.09
Middle Intake	7/6/2004	11:00	2408040138	11	0	0	< 0.09	<0.09
Middle Intake	4/26/2005	11:00	2504280582	11	0	0	<0.09	<0.09
Middle Intake	7/5/2005	10:00	2507070127	11	0	1	<0.09	0.09
Middle Intake	5/17/2006	11:11	2605240012	11	1	1	0.09	0.09
Middle Intake	4/24/2007	9:23	2705020003	10.75	0	0	<0.093	<0.093
Middle Intake	7/9/2007	9:20	2707170046	10	1	0	0.1	<0.1
Middle Intake	8/11/2009	11:20	092228-002	9.75	0		<0.1	-012
Middle Intake	4/27/2010	8:00	101094-001	10.75	0	3	<0.1	0.28
Middle Intake	7/6/2010	10:34	101528-001	10.75	0	0	<0.1	<0.1
Middle Intake	7/12/2011	9:05	111217-002	9.25	0	1	<0.1	0.1
Middle Intake	7/10/2012	9:11	120933-001	11.5	0	0	<0.1	<0.1
Middle Intake	7/8/2013	10:13	130955-001	10.75	0	0	<0.1	<0.1
Middle Intake	7/15/2014	9:08	141045-001	10.5	0	0	<0.1	<0.1
Middle Intake	7/7/2015	9:35		10.5	0	0	<0.1	<0.1
Upper intake	7/3/2003	12:30	2307310015	11	0	1	<0.09	0.09
Upper Intake	6/1/2004	10:30	2406300352	10.5	0	0 .	<0.1	<0.1
Upper Intake	7/6/2004	11:30	2408040139	10.5	0	0	<0.1	<0.1
Upper intake	4/26/2005	11:00	2504280580	10.5	0	ō	<0.1	<0.1
Upper Intake	7/5/2005	10:00	2507070125	11	0	2	<0.3	0.5
Upper Intake	5/17/2006	11:20	2605240013	11	0	0 .	<0.09	<0.09
Upper Intake	4/24/2007	9:41	2705020004	10	0	. 0	<0.1	<0.1
Upper Intake	7/9/2007	9:45	2707170047	10	0	1	<0.1	0.1
Upper Intake	4/23/2009	8:32	2905140105	11	2	1	0.182	0.0909
Upper Intake	8/11/2009	11:00	092228-001	9.75	0	-	<0.1	0505
Upper Intake	4/27/2010	8:30	101094-002	11	0	1	<0.1	0.1
Upper Intake	7/6/2010	10:55	101528-002	10.75	0	0	<0.1	<0.1
Upper Intake	4/26/2011	10:15	110770-002	11	0	1	<0.1	0.1
Upper Intake	7/12/2011	9:25	111217-001	8.5	1	0	0.12	<0.12
Upper Intake	7/10/2012	9:45	120933-002	11.25	ō	o	<0.1	<0.12
Upper Intake	7/8/2013	10:31	130955-002	11	o	o	<0.1	<0.1
Upper Intake	7/15/2014	9:27	141045-002	11	0	0	<0.1	<0.1

		Crypto	Positive	Glardia Positive			
Location	No of Samples	No	Fraction	No	Fraction		
ice House Canyon	5	1	0.2	0	0		
Upper Intake	17	2	0.12	6	0.35		
Middle Intake	15	2	0.13	5	0.33		
Lower Intake	2	1	0.5	0	a		

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# OPINION RE WATER RIGHTS OF SAN ANTONIO WATER COMPANY

PREPARED FOR: SAN ANTONIO WATER COMPANY UPLAND, CALIFORNIA

PREPARED BY: LAGERLOF, SENECAL, DRESCHER & SWIFT PASADENA, CALIFORNIA

JUNE 1993

No. of

PRIVILEGED AND CONFIDENTIAL

HAR T

## c) Summary of San Antonio Canyon and Tunnel Rights

By way of summary, the 1913 judgment, as modified by the 1915 stipulation approved by the Supreme Court, provides that after provision is made for compliance with the salvage water suit decree granting to San Antonio Water Company 17% of the flow as salvage water (as successor to Ontario Power Company) and 18 miner's inches as the Gird right, the West Side Owners are entitled to ½ of the flows up to 312 inches when the flow measures 773½ inches. After satisfying the right of the West Side Owners, San Antonio Water Company is entitled to up to 740 miner's inches of the surface water reaching the dam naturally or by means of the former Ontario Power Company pipeline, or any other pipeline, during the period from December 31 through April 1 of each year, and entitled to 965 miner's inches of such waters during the remainder of the year.

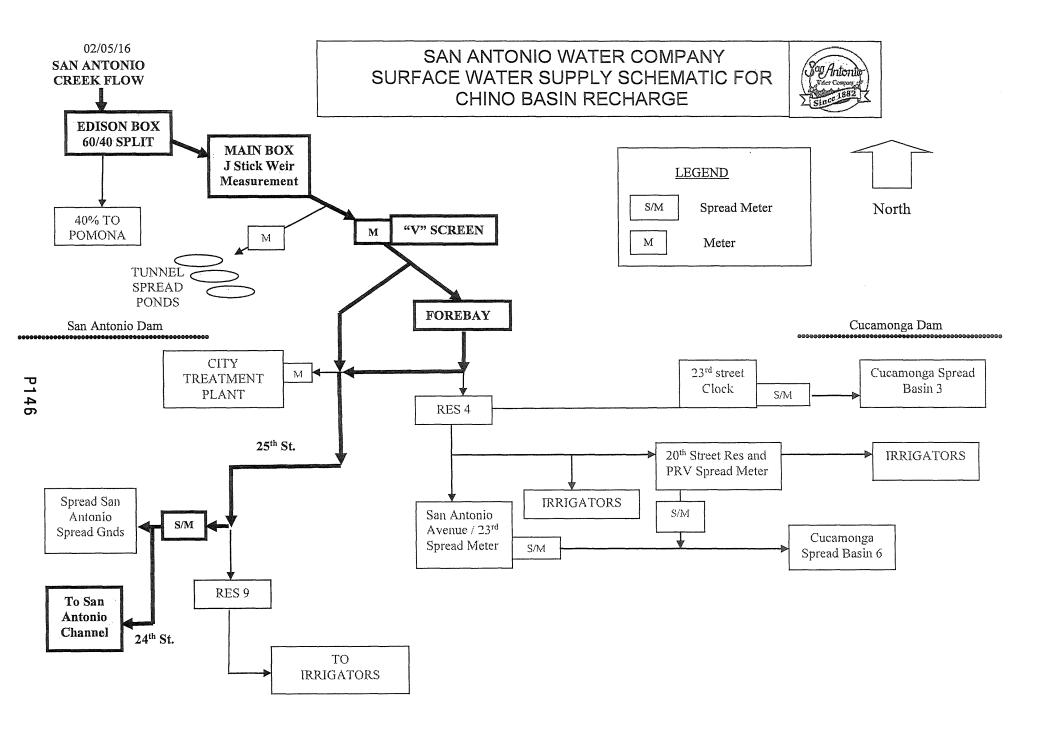
The Court also declared that San Antonio Water Company is entitled to all water in the Tunnel. It should be noted that the Tunnel rights are limited only by the supplies available and the actual physical capacity of the Tunnel. It should be borne in mind, however, that the Tunnel may not be enlarged or extended under the terms of the judgment.

The rights enumerated above are capable of being exercised for domestic and irrigation purposes or for spreading and the entitlement may be spread in Cucamonga Basin or elsewhere.

Provision is made for additional rights available to San Antonio Water Company when 10,000 miner's inches is flowing at a certain specified point in the Canyon. When this occurs, and during the period of the occurrence, San Antonio Water Company is entitled to divert up to an additional 500 miner's inches which water can also be used for spreading, provided however, that when feasible, the water is to be spread in the Canyon. Finally, San Antonio Water Company is entitled to any excess water which flows over the dike in the Canyon, which excess water may be spread in the Cucamonga Basin or in any other location.

San Antonio Water Company has the right to divert 13,864.61 acre feet per year from the Canyon; 2,855.32 during the period from January through March; 11,009.29 during the period from April through December. These rights include the 30 miner's inches of riparian rights and 25 miner's inches under the decree in the Storm Water suit. These rights exclude the conveyances to Messrs.

Vernon, Chapman, Southern California Edison Company, San Antonio Canyon Mutual Water Company and the U.S. Forest Service.





# San Antonio Water Company

Incorporated October 25, 1882

Serving the original Ontario Colony lands

February 2, 2016

Ms. Danni Maurizio Chino Basin Watermaster 9641 San Bernardino Road Ranch Cucamonga, CA 91730

Subject: Application for Recharge - Statement of Water Rights in San Antonio Creek

Dear Danni:

The San Antonio Water Company has riparian and appropriative water rights from the San Antonio Creek. These rights are captured at the Water Company's Division Dam by diversion of stream flows below Shin Road.

Remaining stream flows not captured by the Water Company are captured at the San Antonio Dam and utilized for water recharge by Six Basins Watermaster for the benefit of its parities.

Sincerely,

Charles Moorrees General Manager/CEO

/cm

Cc: File



February 4, 2016

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

Subject: Analysis of Material Physical Injury for the San Antonio Water Company (SAWC) Recharge Application, as submitted to the Chino Basin Watermaster on January 22, 2016

Dear Mr. Kavounas,

Pursuant to your direction, Wildermuth Environmental, Inc. (WEI) conducted a material physical injury (MPI) analysis of the SAWC's January 22, 2016 recharge application. This MPI analysis has been done pursuant to the Watermaster Rules and Regulations and the Peace Agreement. Specifically, Article 10 of Watermaster Rules and Regulations (paragraph 10.10) requires that:

"[...] Watermaster prepare a written summary and analysis (which will include an analysis of the potential for material physical injury) of the Application and provide the Parties with a copy of the written summary and advanced notice of the date of Watermaster's scheduled consideration and possible action on any pending Applications."

Per the Peace Agreement, material physical injury is defined as:

"[...] material injury that is attributable to Recharge, Transfer, storage and recovery, management, movement or Production of water or implementation of the OBMP, including, but not limited to, degradation of water quality, liquefaction, land subsidence, increases in pump lift and adverse impacts associated with rising groundwater" (Peace Agreement, page 8).

The MPI analysis presented herein is based on our professional experience and judgment in the Chino Basin, including the collection and analysis of monitoring data, past evaluation of Chino Basin storage programs, groundwater modeling of various groundwater management alternatives in the Chino Basin, and prior MPI analyses.

## SAWC's Recharge Application of January 22, 2016

WEI contacted Charles Moorrees of the SAWC to review the SAWC recharge application on February 1, 2016. SAWC proposes to recharge 200 afy of San Antonio Creek water into the Chino Basin at a rate not to exceed 500 gallons per minute. SAWC proposes to divert San Antonio Creek water through its existing San Antonio Creek diversion located upstream of San Antonio dam, convey that water through its existing non-potable system and subsequently discharge it to the concrete-lined reach of San Antonio Creek located downstream of the Pomona Valley Protective Association (PVPA) diversion facilities and upstream of the Upland Basin. SAWC proposes to recharge the subject water in Montclair Basins 2, 3 and 4 and Brooks Basin. Diversion into the Montclair Basins will occur through the existing San Antonio Creek diversion into Montclair Basin 1 and subsequently routed downstream through the outlet of Basin 1 to Basin 2 and thence if necessary to Basins 3 and 4. Diversion into the Brooks Basin would be through the existing San Antonio Creek diversion into the Brooks Basin. SAWC would need to coordinate their proposed diversions for recharge with the Inland Empire Utilities Agency (IEUA), Chino Basin Water Conservation District and Watermaster to ensure that their water is diverted as proposed, accounted for, and to ensure that SAWC recharge activities do not interfere with other recharge operations. The proposed recharge will contribute to the Watermaster obligation to recharge 6,500 afy of supplemental water in MZ1. SAWC did not submit a recapture plan in its January 22, 2016 recharge application.

SAWC applied for a local storage agreement (LSA) for 2,000 af in December 2011. The recharge application that accompanied the LSA application identified the source water as San Antonio Creek water that would be recharged into the Upland and Montclair Basin 1 at a rate of 1,500 afy for the period January through June and at an average monthly rate of 250 af per month. SAWC did not submit a recovery plan with its 2011 LSA application. The MPI analysis for the 2011 LSA application indicated that there would be no MPI for the recharge and storage of San Antonio Creek water as then proposed but did not opine on the recovery of the stored water because no recovery plan was provided. The Watermaster board approved the recharge application and directed Watermaster "to account for this supplemental water recharged in SAWCO's existing local supplemental storage account." ^{1, 2}

The scope of this MPI analysis is to determine if the recharge of San Antonio Creek water by the SAWC as proposed in its January 22, 2016 recharge application, has the potential to cause MPI. This analysis is limited to the recharge and storage of that water only

¹ See the minutes from the February 23, 2102 Watermaster board meeting. http://www.cbwm.org/met_board_12.htm

² The 2011 proposed LSA was for 2,000 af and the attached recharge agreement included 1,500 afy. The Watermaster board subsequently approved only the recharge application for 2,000 afy at the February 23, 2012 meeting.

because no recovery plan was provided.

## Groundwater Level Impacts (liquefaction, land subsidence, and increases in pump lift)

The proposed project will produce a localized increase in groundwater levels in the vicinity of the recharge basins where the recharge occurs, followed by a return to the groundwater levels that would occur had the water not been recharged. The depth to groundwater beneath Montclair Basins 2, 3 and 4 is presently about 500 feet below ground surface (bgs) and the depth to groundwater beneath the Brooks Basin is about 310 ft bgs. There will be no adverse liquefaction or land subsidence impacts from the groundwater level changes caused by the recharge and storage proposed by SAWC. There may be some diminishing of the current land subsidence in the recharge area if the stored water resulting from the proposed recharge is recovered outside of the Northwest Management Zone 1 subsidence management area (Northwest MZ1 area).

## Balance of Recharge and Discharge in Every Area and Subarea

There may be an imbalance if the recovery of the proposed recharge does not occur proximate to the recharge.

- If the proposed recharge is produced in Northwest MZ1 area where the recharge is proposed then there will likely be no imbalance in recharge and discharge attributable to the proposed recharge.
- If the recharged water is recovered outside of the Northwest MZ1 area then there will be an imbalance in recharge and discharge attributable to the proposed recharge and that imbalance will result in higher groundwater levels and greater groundwater storage in the Northwest MZ1 area both of which will benefit the area. There will be a decline in groundwater levels in the area where the groundwater is recovered.

#### Total Dissolved Solids and Nitrate Concentration of the Recharge Water

The 2004 Regional Water Quality Control Plan (Basin Plan) for the Santa Ana River Watershed has total dissolved solids (TDS) and nitrate (expressed as nitrogen) concentration objectives in the Chino-North Groundwater Management Zone (GMZ) of 430 milligrams per liter (mg/L) and 5 mg/L, respectively. The proposed recharge will occur in the Chino-North GMZ. Pursuant to the Basin Plan, Watermaster and IEUA are required to manage the recharge in spreading basins in the Chino Basin so that the five-year, volume-weighted average TDS and nitrate concentration of the recycled water, imported water, supplemental native water, and new stormwater recharged across all recharge basins will not exceed the Basin Plan objectives. SAWC did not provide a complete characterization of San Antonio Creek water quality in their January 22, 2016 recharge

application. San Antonio Creek water quality data available to WEI from other sources³ indicate that the TDS and nitrate concentrations of the water proposed to be recharged vary and are generally less than 250 mg/L and 1 mg/L, respectively. The current ambient TDS and nitrate concentrations in the Chino-North GMZ are 350 mg/L and 10 mg/L, respectively and therefore the proposed recharge project will not encroach into the current assimilative capacity or interfere with Watermaster and IEUA's regulatory obligations. In fact, the proposed recharge will be helpful in complying with the Basin Plan. There will be no adverse TDS or nitrate concentration impacts caused by the proposed recharge.

## Water Quality Impacts on Other Pumpers

The water quality of the proposed recharge is comparable to State Water Project water and the proposed recharge will improve the general water quality in the Basin. The sum of the proposed recharge of 200 afy in the January 22, 2016 recharge application and the 2,000 afy of recharge that was previously approved in February 2012 is not unusually large nor will it create a significant change in the direction and speed of groundwater flow in the area between the recharge basins and the wells owned by the City of Pomona and the Monte Vista Water District (MVWD). These entities will with certainty physically produce the water recharged in the proposed January 22, 2016 recharge application and the water recharged pursuant to the 2012 SAWC recharge application. We reviewed exhibits 29 through 46 in the 2014 State of the Basin Report⁴ that characterize water quality in the Chino Basin to qualitatively assess the impact of San Antonio Creek recharge as proposed January 22, 2016 recharge application and the water recharged pursuant to the 2012 SAWC recharge application, and we conclude that the proposed recharge will not adversely affect the water quality in the groundwater produced by Pomona or the MVWD.

#### **Conclusion and Recommendations**

There will be no MPI due to the proposed January 22, 2016 recharge application and the water recharged pursuant to the 2012 SAWC recharge application. A no-MPI determination cannot be made regarding the recovery of the recharged water until a recovery plan is provided to Watermaster for MPI review. The scope of the MPI analysis for the recovery plan should consider the recovery of all water recharged and stored by SAWC.

Watermaster should require the SAWC to monitor the amount of water discharged to San Antonio Creek, sample and analyze the water quality of San Antonio Creek water that they discharge to San Antonio Creek and provide this data to the Watermaster and IEUA in a timely manner. These data are required for Watermaster accounting, regulatory reporting required in the IEUA-Watermaster recharge permit and other groundwater

³ 2011 City of Pomona Consumer Confidence Report (CCR), 20 and 2013 City of Upland CCR and 2014 SAWC CCR

⁴ http://www.cbwm.org/rep_engineering.htm

management purposes.

Please call me if you have any questions or concerns regarding this MPI analysis.

Very truly yours,

Wildermuth Environmental, Inc.

Mark Wildermuth, PE

President, Principal Engineer

# **CHINO BASIN WATERMASTER**

## III. REPORTS/UPDATES

## C. GM REPORT

 Overlying Non-Agricultural Pool Available Water Per Restated Judgment Exhibit "G"

# Actual Allocation for the Purchase of the Exhibit "G" Non-Ag Pool Water 2016

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:								
	Volume		Payment @					
Party	Made		\$508.00					
	Available (AF)		per AF					
CA Steel Industries	2,500.000	\$	1,270,000.00					
Auto Club Speedway	1,000.000	\$	508,000.00					
NRG CA South LP	1,500.000	1,500.000 \$ 762,000.00						
	5,000.000	\$	2,540,000.00					

					1st Iteration A	dditional Amoun ( = Total [B] 1,589.780	- Total [D] )	e Reallocated:		2nd Iteration		nt Available To E ] - Total [J] ) Acre-Feet	Be Reallocated:		3rd Iteration	( = Total [E	nt Available To E 3] - Total [O] ) Acre-Feet	e Reallocated:		
	5,000.000	Maximum	Amount of	Maximum	Original		1st Iteration		Total	Original		2nd Iteration		Total	Original		3rd Iteration		Total	Cost for
Party	Potential	Amount	Original	Additional	Potential	Percent	Available	Reallocation	Amount	Potential	Percent	Available	Reallocation	Amount	Potential	Percent	Available	Reallocation	Amount	Each Party's
Faity	Allocation	Stated	Potential	Amount	Allocation	Of	Allocation	Actual Amount	After	Allocation	Of	Allocation	Actual Amount	After	Allocation	Of	Allocation	Actual Amount	After	Allocation @
	(From	On	Allocation	Requested	(If Purchasing	Potential	Amount For	(Up To	Iteration	(If Purchasing	Potential	Amount For	(Up To	Iteration	(If Purchasing	Potential	Amount For	(Up To	Iteration	\$508.00
	Notice)	Form	Requested		Additional)	Allocation	This Iteration	Maximum)		Additional)	Allocation	This Iteration	Maximum)		Additional)	Allocation	This Iteration	Maximum)		per AF
Arrowhead Mtn Spring Water Co	12.666	5,000.000	12.666	4,987.334	12.666	0.483%	7.674	7.674	20.341	12.666	0.490%	0.071	0.071	20.412						\$ 10,369.30
Chino Hills, City Of	205.093	-	-	1,007.001	- 12.000	0.10070	7.07	1.07.1	20.011	-	0.10070	0.077	0.071	20.112			1		1	\$ -
Chino, City Of	183.912	_	_	_	_				_	_				_			1			\$ -
Cucamonga Valley Water District	600,175	3,365.764	600.175	2,765,589	600,175	22.873%	363,635	363,635	963.810	600.175	23.229%	3,370	3,370	967.180						\$ 491,327.29
Desalter Authority	- 000.175	5,505.704	000.170	2,700.009	- 000.173	22.07370	303,000	303.033	903.010	- 000.175	25.22576	] 5.570	3.370	307.100				1		\$ -51,027.25
Fontana Union Water Company	291,413	1,634,236	291,413	1.342.823	291,413	11.106%	176.562	176,562	467.975	291,413	11,279%	1.636	1.636	469.611						\$ 238,562.42
Fontana Water Company	396.687	5,000.000	396.687	4,603,313	396.687	15.118%	240.346	240,346	637.033	396,687	15.353%	2,227		639.261						\$ 324,744.35
Fontana, City Of	390,007	5,000.000	390.007	4,005.515	390.007	15.11070	240.346	240.346	037.033	390,007	15.55576	2.221	2.221	039.201						φ 324,744.33 ¢
Golden State Water Company	40.169	50,000	40.169	9.831	40.169	1.531%	24.338	9.831	50.000					50.000			i			\$ 25,400.00
Jurupa Community Services District	464.526	464.526	464.526	9.031	40.169	1.551%	24.330	9.031	464.526	-				464.526						\$ 235,979.00
Marygold Mutual Water Company	67.043		404.520	-						1										235,979.00
Monte Vista Irrigation Company	30.855	30.855	30,855	-	-				30.855	-			1	30.855						\$ 15,674.29
Monte Vista Water District	424.480	2.924.450	424.480	2.499.970	424,480	40 4770/	257.185	007 400		404 400	40 4000/	0.000	2.383						1	\$ 347.496.71
Niagara Bottling, LLC	55.279	2,924.450	424.480	2,499.970		16.177%	257.185	257.185	681.665	424.480	16.429%	2.383	2.383	684.049						\$ 347,496.71
		-	-	-	-				-	-				-						
Nicholson Trust	0.182	-	-	-	-				-	-				-						-
Norco, City Of	9.189	-	-	-															1	\$
Ontario, City Of	858.319	5,000.000	858.319	4,141.681	858.319	32.711%	520.040	520.040	1,378.360	858.319	33.220%	4.819	4.819	1,383.179			ļ			\$ 702,654.91
Pomona, City Of	883.509	-	-	-	-				-	-				-					1	-
San Antonio Water Company	112.666	-	-	-	-				-	-				-						\$ -
San Bernardino County Shtg Prk	0.323	-		-	-				-	-				-						-
Santa Ana River Water Company	59.332	59.332	59.332	-	-				59.332	-				59.332						\$ 30,140.88
Upland, City Of	231.596	231.596	231.596	-	-				231.596	-				231.596						\$ 117,650.85
West End Consolidated Water Company West Valley Water District	43.208 29.376	-	-	-	-				-	-				-						\$ -
vvest valley vvaler district	29.376	-		-	-				_	_				-						, -
Total	5,000.000	23,760.759	3,410.220	20,350.539	2,623.911	100.000%	1,589.780	1,575.274	4,985.493	2,583.742	100.000%	14.507	14.507	5,000.000						\$ 2,540,000.00
[A]	[B]	[c]	[D]	[E]	[F]	[G]	[H]	[1]	[7]	[K]	[L]	[M]	[N]	[0]	[P]	[Q]	[R]	[8]	[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**

## III. REPORTS/UPDATES

- D. INLAND EMPIRE UTILITIES AGENCY
  - 1. MWD Update (Written)
  - 2. State and Federal Legislative Reports
  - 3. Community Outreach/Public Relations Report

## CHINO BASIN WATERMASTER

## **ADVISORY COMMITTEE**

March 17, 2016

## **AGENDA**

## INTERAGENCY WATER MANAGER'S REPORT

Chino Basin Watermaster

9641 San Bernardino Road

Rancho Cucamonga, CA 91730

## **Discussion Items:**

• MWD Update (Written)

## Written Items:

- State and Federal Legislative Reports
- Community Outreach/Public Relations Report

# CBWM Advisory Committee Meeting March 17, 2016

MWD Update - Discussion

#### Rates:

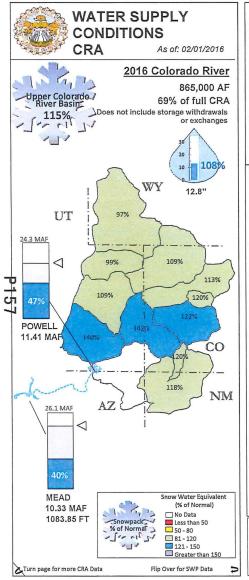
Initial budget estimates indicate a 4% <u>overall</u> rate increase for CY2017 and CY2018, and in the range of 4-5% for the remainder of the 10-year period. Consistent with prior rates, there is no provision for Replenishment Water rate or supply.

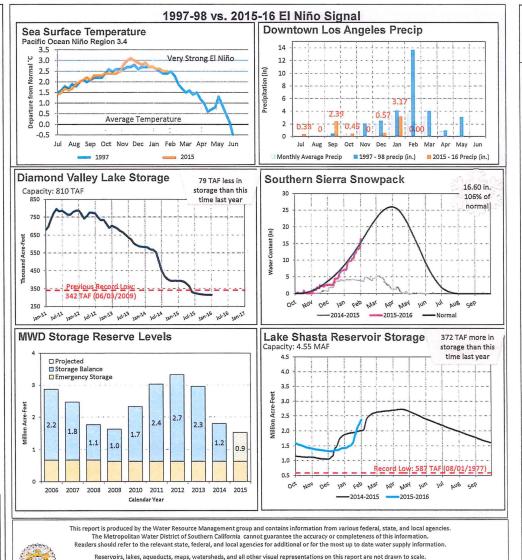
	2016	2017		2018	
Rate	Approved	Proposed	% Change	Proposed	% Change
<b>Full Service Untreated</b>	Volumetric C	ost (\$/AF)			
Tier 1	\$594	\$666	12%	\$695	4%
Tier 2	\$728	\$760	4%	\$781	3%
<b>Treatment Surcharge</b>	\$348	\$313	-10%	\$320	2%
RTS Charge (\$M)	\$153	\$135	-12%	\$140	4%
Capacity Charge (\$M)	\$43	\$34	-21%	\$37	9%

## Water Supply Allocation Plan (WSAP):

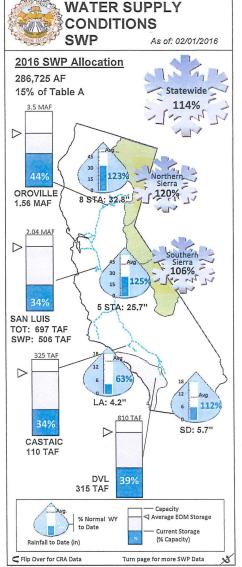
As a reminder, effective July 1, 2015 through June 30, 2016, reduced Tier 1 allocations were set as follows. Purchases of MWD water in excess of amounts below will result in an Allocation Surcharge from MWD. The regions cumulative sales were 17,866.8 AF through end of February 2016.

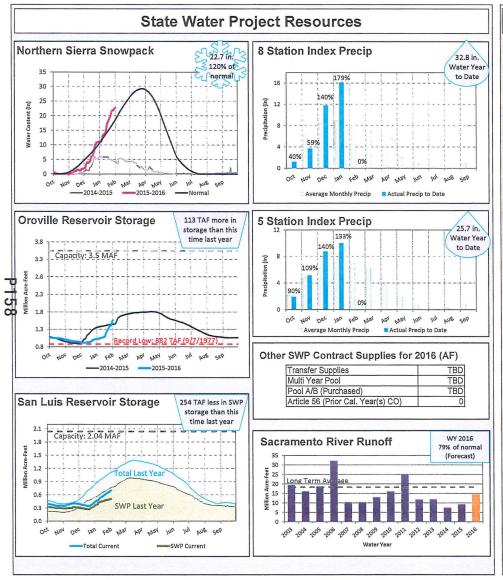
CVWD: 26,569 AF (Cumulative sales of 5,841.3 AF, 22% of WSAP Allocation)
WFA: 27,406 AF (Cumulative sales of 8,469.0 AF, 31% of WSAP Allocation)
FWC: 7,293 AF (Cumulative sales of 3,556.5 AF, 49% of WSAP Allocation)

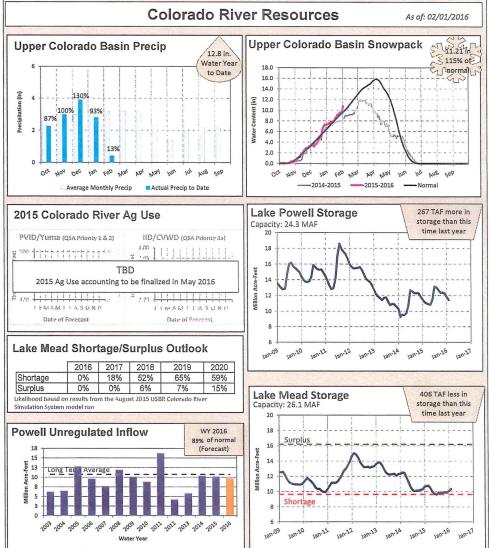




http://www.mwdh2o.com/PDF About Your Water/2.2.4 water supply conditions.pdf









## February 26, 2016

To:

Inland Empire Utilities Agency

From:

Michael Boccadoro

President

RE:

February Legislative Report

## Overview:

February 19 was the bill introduction deadline. Hundreds of bills were introduced, many in "spot" format and bills must be in print for 30 days before they can be acted on or amended. The Legislature spent most of February getting their bills ready for introduction. As bills pass the 30-day mark, policy committees will start to meet to report bills out ahead of the April 22 policy committee deadline.

The State Water Resources Control Board has approved a resolution implementing a 2012 law declaring that every human has the right to clean, affordable and accessible water. The primary objective of the resolution is to provide direction and guidance to the regional boards to ensure consistency in the manner in which the human right to water is considered in certain board actions.

Since the beginning of the year more than 500,000 acre-feet of water has been lost due to biological opinion requirements. That is enough water for over one million families for one year. Significant legislative concern is developing as that water flows into the ocean when it could be used to replenish groundwater and fill critically low basins.

The State Water Resources Control Board recently voted to adopt an emergency conservation regulation that extends mandatory urban conservation through October. There were many requests for the regulations to be eased in light of heavy early-winter precipitation, but Board members said they would revisit the regulation in the spring when more complete information is available about the water year.

During a call to announce a multi-state clean energy initiative, Governor Brown stated his interest in a carbon tax. Brown noted that there would be significant political hurdles to such a tax, and no legislative measures have been introduced to implement the tax. A carbon tax is only one of the many measures that are being discussed as tools to help the state meet its ambitious greenhouse gas reduction goals.

Among the hundreds of bills introduced in the beginning of February, there were quite a few dealing with biogas. Several by Assemblymember Das Williams (D- Santa Barbara) look to ease gas standards and increase funds to help with interconnection costs.

ACWA has received title and summary for its joint proposal to amend Article X of the State Constitution to create an alternative rate setting process for budget-based rates and stormwater

projects. The coalition is now testing the language in a voter survey and will consider next steps after evaluating the poll results.

Early winter storms created a strong snowpack up and down the Sierras. Recent warmer temperatures have caused significant snowmelt and leave many worried if the El Niño will continue. Additionally, the recent storms and snow melt have helped to replenish many of Northern California's critically low reservoirs. Unfortunately, with the inability to move water to the southern part of the state, southern reservoirs still remain critically low.

## Inland Empire Utilities Agency Status Report – February 2016

## Human Right to Water

The State Water Resources Control Board has approved a resolution implementing a 2012 law declaring that every human has the right to clean, affordable and accessible water. There were last minute amendments to the resolution that ease the language to ensure it will not spur any new rules.

The primary objective of the resolution is to provide direction and guidance to the regional boards to ensure consistency in the manner in which the human right to water is considered in certain board actions.

## Water Loss

As California struggles to recover from record drought conditions, environmental regulations continue to force hundreds of thousands of acre-feet of precious water to be flushed through the Sacramento-San Joaquin Delta and out to the ocean. At the same time, State Water Project contractors have received allocation estimates of only 30 percent.

Since the beginning of the year more than 500,000 acre-feet has been lost due to biological opinion requirements. That is enough water for over one million families for one year.

The amount of water lost has been an increasingly hot topic among regulators and Legislators in Sacramento. State Water Resources Control Board Chair Felicia Marcus and Senator Fran Pavley are among those who have questioned if there is anything that can be done to capture that water and get it into storage or use it to replenish groundwater basins.

With the warm weather continuing, many are also questioning the Army Corps' 30 year-old policies to keep certain amounts of capacity available for flood protection. Folsom Reservoir has been releasing water for the past few weeks which is also being lost due to the pumping restrictions in the Delta.

## Emergency Conservation Regulations Extended

The State Water Resources Control Board recently voted to adopt an emergency conservation regulation that extends mandatory urban conservation through October.

There were many requests for the regulations to be eased in light of heavy early-winter precipitation, but Board members said they would revisit the regulation in the spring when more complete information is available about the water year. Local water agency representatives called for modifications to recognize local drought resilient supplies and to address on-the-ground conditions in different parts of the state. For example, requests were made to credit agencies that have invested in local resilient supplies though projects such as recycling, local storage, desal of brackish and ocean water and other measures.

Board chair Felicia Marcus noted that regional differences are a factor, and that other adjustments may be needed after April. But now is not the time, she said, for a major overhaul of the regulation that has been in place since June 2015.

#### Carbon Tax

During a call to announce a multi-state clean energy initiative, Governor Brown stated his interest in a carbon tax. Brown noted that there would be significant political hurdles to such a tax, and no legislative measures have surfaced to implement such a tax.

The comments from the Governor came after California Air Resources Board Chair Mary Nichols warned legislators that California cannot meet its long-term GHG-reduction targets if it does not set a higher price on carbon. Her statement underscores the administration's desire to continue a cap and trade program post 2020 and increase the state's emissions reductions goals.

The last carbon tax bill was introduced in 2014 by then President Pro Tem Steinberg and was met with significant opposition including Governor Brown.

## Biogas Bills

There have been a significant number of bills introduced all taking aim at trying to increase biogas production in California.

AB 2206 (Williams) aims to address on the gas quality standards for biomethane injection into common carrier pipelines.

AB 2313 (Williams) targets the \$40 million set aside at the CPUC for biomethane interconnection costs. The author is interested in increasing the funding cap from \$1.5 million per project to \$3 million per project.

SB 1043 (Allen) is similar to his SB 687 from last year. The bill would require CARB to look at ways to increase biogas production in the state. Options still include a biogas procurement requirement, similar to the electric Renewable Portfolio Standard.

SB 1153 (Cannella) will address possibly rate-basing gas corporation capital investments to facilitate pipeline biomethane development and injection in California.

SB 1402 (Pavley) would authorize investing from the Greenhouse Gas Reduction Fund (GGRF) to promote in-state production of low-carbon intensity fuels.

All of these bills are still in draft format and conversations with the authors' offices about what the final goal of the billss are ongoing, but the topic of biomethane injection is clearly a very hot topic in the Legislature this year.

## Title and Summary Received for ACWA Prop 218 Initiative

The coalition working to make changes to Article X of the constitution to try to mitigate some of the Prop. 218 hurdles to adopting budget based rates and financing stormwater projects has received title and summary from the Attorney General's office for their ballot initiative.

# "LOCAL GOVERNMENT. WATER, SEWER, STORMWATER, AND FLOOD CONTROL SERVICES. FEE STRUCTURES. INITIATIVE CONSTITUTIONAL

AMENDMENT. Establishes alternative process for local government to impose fees for water, sewer, stormwater, and flood control services, as defined, without voter approval. Authorizes fee structures that recover reasonable costs of providing service, encourage water conservation and resource management, and provide fee reductions for low-income households. Requires notice of and public hearing on proposed fees. Allows fee payers to prevent proposed fee by majority filing written protests. Prohibits use of fee revenues for other purposes. Requires independent audit of revenues and expenditures. Summary of estimate by Legislative Analyst and Director of Finance of fiscal impact on state and local government: Increased local government revenues and spending for flood control services and stormwater management in the range of low hundreds of millions of dollars up to more than \$1 billion annually, depending on future actions by local governing boards and voters."

The coalition has taken this language and is now testing it in a voter survey. Results are expected at the beginning of March.

In the meantime, they are still working to get a constitutional amendment on the ballot with a two-thirds vote of the Legislature.

#### Snow Pack

The early-winter storms that brought the statewide snowpack to above normal levels have tapered off. With unseasonably warm temperatures, the snow has started to melt and the snowpack numbers have decreased. Statewide, the snowpack is 91 percent of average to date. In the northern Sierra, it is 96 percent of the norm; in the central Sierra, 92 percent of average and in the southern Sierra, 84 percent of the norm.

When it comes to snowpack, the critical date is still looming. April 1 is when snowpack reaches its peak, and in a typical year that snow provides Californians with roughly a third of their water supply.

Weather forecasts for the next ten days only predict negligible precipitation in Northern California watersheds.

## Reservoir Conditions

The recent storms have helped replenish critically low reservoirs in Northern California. Unfortunately, with pumping restrictions in the Delta, the regulators have been unable to move water into south of delta storage reservoirs and basins. The chart below shows how northern basins are increasing capacity, while the basis south of the Delta are seeing more moderate or even negative storage changes.

The following is a chart of water levels at several California reservoirs comparing end of September 2015 levels to end of February levels:

Reservoir	Perce Cap			ent of l Average
	Sept. 28	Feb. 25	Sept. 28	Feb. 25
Lake Shasta	35%	59%	59%	82%
Lake Oroville	30%	51%	48%	74%
Folsom Lake	18%	64%	32%	116%
San Luis Reservoir	20%	47%	42%	50%
Lake Perris	36%	35%	47%	42%
Castaic Lake	36%	32%	45%	32%

## Legislative Update

February 19 was the last day for members to introduce new bills for the 2016 year. Hundreds of bills were introduced before the deadline, a majority of which are in "spot" form. "Spot" bills are bills that are introduced, but do not have any real operative language. Many of these bills will be amended after they have been in print for 30 days to add more substantive language in order to be set for a policy committee hearing.

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# Agricultural Resources

635 Maryland Avenue, N.E. Washington, D.C. 20002-5811 (202) 546-5115 agresources@erols.com

February 26, 2016

## **Legislative Report**

TO:

Joe Grindstaff

General Manager, Inland Empire Utility Agency

FR:

David M. Weiman

**Agricultural Resources** 

LEGISLATIVE REPRESENTATIVE, IEUA

SU:

Legislative Report, February 2016

With the arrival of February, the congressional year finally "got underway." At the beginning of the month, all eyes were on the El Nino on the West Coast and on Congress here on the East Coast.

## Snapshot.

- In January, the El Nino weather system arrived in California, the West Coast and even into the Rocky Mountains. After a wet month (above average in some places), the El Nino rains and snow slowed and then all but came to a halt by the month's end.
- Senator Feinstein formally introduced her long-awaited Drought Bill (S. 2553, The California Long-Term Provisions for Water Supply and Short-Term Provisions for Emergency Drought Relief Act).
- California remains in drought (month-to-month, this report is unchanging) El Nino rains and snow notwithstanding. As February came to a close, approximately half the state, including the San Joaquin Valley, remained in "extreme" or "exceptional" drought condition (the two highest of five categories)
- CASA and ACWA held their annual Washington, DC fly-ins. IEUA was represented by

Director Hall, General Manager Grindstaff and External Affairs Director, Kathy Besser. The conference meetings were supplemented with meetings with Reps. Norma Torres, Ken Calvert, Judy Chu, Pete Aguilar, Ed Royce and Rep. Grace Napolitano's water staff. IEUA held a policy luncheon with Orange County attended by about 15 House Members on a bi-partisan basis.

- Unexpected Death of Justice Scalia. On February 13, Justice Scalia died while on a hunting trip in West Texas. The opening on the High Court instantly overwhelmed the political agenda for the year with Senate Rs insisting that any nominee (yet to be identified) won't even get a hearing. The President is making it clear that he will submit a highly qualified nominee to the Senate (which must Advise and Consent approve or reject the nomination). This unexpected development has the potential to derail the Senate's political and legislative agenda for the remainder of 2016.
- The primary election "season" is finally underway. Voting began in Iowa, moved to New Hampshire and then South Carolina and Nevada.
- White House Water Innovation Conference IEUA being considered by WH and Office of Science and Technology Policy for participation.

## 2016 Agenda - Top Priority

- House Speaker Paul Ryan (R-WI) and Senate Majority Leader Mitch McConnell (R-KY) jointly decided that considering, marking up, passing and then conferencing all 12 funding (appropriations) bills was their top priority (which hasn't been done in years).
- The House-Senate leadership wanted to avoid the need and use of a Continuing Resolution (CR) or Omnibus bill as has almost routinely occurred in recent years.
- House-Senate leadership effort, however, has been stalled by the House Freedom Caucus the same 50 or so House Rs who opposed Boehner on just about everything. They are insisting that the budget agreement reached last Fall be rejected and are calling for massive cuts in domestic spending accounts. That single internal House disagreement has prevented Speaker Ryan from presenting a budget (step one in the budget/spending process) to the House and starting the budget/spending/appropriations process.

## **Administration Submits Budget**

- Interior Department Budget submitted to Congress is \$13.4 billion. The centerpiece of the budget is found in several key points:
  - * 14 million jobs created during the Obama Administration
  - * More than 70 consecutive months adding new jobs
  - * Unemployment now below 5%
  - * Deficit reduced (annually) by about three-quarters
- BuRec Budget request \$1.1 Billion. Overall request for BuRec programs and facilities

in the 17 Western States.

BuRec Request for Title XVI – \$21 million (or, about 1.7-1.8% of the overall BuRec budget request). This is the fifth year of drought. Demand for the program is overwhelming (evidence by the 100+ projects in California alone identified in the Feinstein bill and the more than \$600 million being advanced by the State for recycling projects from Prop. 1. BuRec's dislike of this program is well-known and already is a point of discussion for Appropriators and other House Members.

## Tax Reform Agenda

- House R leadership continues to insist that tax reform is a major issue to be considered this congressional session, but it keeps being pushed back and delayed.
- It remains a priority, but between on-going primary elections, the death of Justice Scalia, and the unexpected internal budget fight it's been all but impossible for a new Chair (Rep. Kevin Brady, TX) to both staff up and prepare for tax reform too. This is fast becoming a 2017 issue legislatively. 2016 will be devoted to on-going "educational" efforts.
- As reported last month, "IEUA, along with ACWA, NWRA along with almost every major form of infrastructure (water, airports, energy, transportation, hospitals, schools, libraries, recreation, etc.), have worked with the Municipal Bonds Coalition of America, headed by Columbia, SC Mayor, Steve Benjamin to protect this tax code provision and oppose efforts to eliminate or modify it. This is also a high priority for the US Conference of Mayors and the bond industry in the finance sector."
- The MBCA is actively in the process of changing itself from an informal working group to a formal legal entity and expects to be even more active in 2016 and beyond.

## Water/Weather/Drought

## Feinstein Bill Introduced – Fate Unclear

- Drought legislation is gridlocked. Serious disagreements exist between some San Joaquin Valley irrigators (especially those with low water rights) and just about everybody else.
- Senator Feinstein circulated a new bill earlier this year with Senator Boxer. The bill was finally introduced, but Senator Boxer was not willing to put her name on it.
- The bill is still being reviewed there are unanswered questions about operational impacts to Southern California.
- The bill does something not typically done in legislation. That it, it prescribes "operational" standards. Usually, bills establish *policy*, even a detailed set of policies. Once enacted, the agency, in this case BuRec, then designs an implementation plan which includes operational considerations, standards and protocols. By statutorily

mandating certain operational standards, the bill has been very atypically complex.

- No date for Senate Energy Committee hearings yet.
- As reported last month, "of special important to IEUA, there is a provision that will allow recycling projects, not authorized by Congress to be considered. If enacted, this would allow the Cucamonga Valley WD project to be considered for funding, BuRec's current opposition notwithstanding." This provision is included.
- A key addition to the bill the MWD/LA Sanitation Recycling Project is now identified in the Feinstein bill.

## Appropriations – \$100 Million for Drought Relief

- The massive appropriations bill signed into law in December provided for \$100 million drought relief (the provision was requested by Senator Feinstein).
- IEUA has applied for grant pursuant to a BuRec Request for Proposal (RFP).
- IEUA worked with its House delegation (Cook, Aguilar, Torres, Royce, Chu and Napolitano) to submit a letter to Secretary Jewell urging that a portion of the \$100 million be allocated to Title XVI/Water Smart programs.

#### El Nino

- El Nino arrived in January. Rain and snow came. Wet was good and welcomed by all.
- In February, the El Nino season abruptly came a near-halt by the end of the month. El Nino stalled.
- All of California, according to the Drought Monitor, remains "in some category of drought." Approximately half the entire state, including all of the San Joaquin Valley, is still in *severe* or *exceptional* drought status.

## **Unanticipated Drought-Related Federal Tax Issue**

- As previously reported, the "unintended tax penalty" resulting from the Governor's Drought Orders (from MWD's turf rebates) remains unresolved and unclarified.
- Clarification from Treasury/IRS is still pending.

## **Drought Status – CA and Rest of the West**

- **Drought Conditions California**. Even with El Nino storms, the Drought Monitor indicates that all 58 counties remained in various levels of drought.
- **El Nino**. Drought Monitor also reports that westwide, that drought conditions are lessening in most western states.

Lake Mead. BuRec is projecting that Lake Mead remains at risk (even with storms in the Rocky Mountains) and 2017 remains highly problematic.

## **Looking Into March 2016**

- Primary voting continues with Super Tuesday (12 states and one territory)
- On the R side, almost a dozen candidates have now dropped out. The race is down to Trump, Rubio, Cruz and OH's Governor, John Kasich. On the D side, it's a Clinton-Sanders race. It's openly speculated that conventions could be deadlocked. If that happens, all bets are off.
- An energy bill, first time in a decade, has been under consideration in the Senate, guided in a bi-partisan fashion by Senate Energy Committee Chair, Sen. Lisa Murkowski and the Committee's ranking D, Sen. Maria Cantwell. The bill was on the Senate floor early in February but became embroiled in partisan opposition to relief for Flint, Michigan. Indications are that a solution is emerging and the bill will be finalized soon. The fate of the energy bill has the potential to impact a Senate water bill. If the energy bill is blocked, then hope for a bi-partisan Senate water/drought bill goes way down. If it passes, then hope for a drought bill increases.
- Appropriations Committees (even with the uncertainty) are now moving forward with hearings and budget reviews.
- The President is expected to submit a nomination for the Supreme Court.

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Date:

February 26, 2016

To:

Inland Empire Utilities Agency

From:

John Withers, Jim Brulte

Re:

February Activity Report

Listed below is the California Strategies, LLC monthly activity report. Please feel free to call us if you have any questions or would like to receive any more information on any of the items mentioned below.

- Met with IEUA Executive staff to review priority issues and to discuss activities for February that Executive Staff wanted accomplished.
- Discussed ways to highlight the customer return on investment for the building of recharge basins in our service territory.
- Discussed LAFCO and made recommendations to staff about upcoming issues. Support and advise on IEUA/SBVMWD transfer transaction on an as needed basis. Review and comment on Webb Engineering Plan of Services Scope of Work.
- Provided a progress update on the recent filing of a Sphere of Influence amendment filing by the CVWRD.
- Continue to monitor statewide water issues including the BDCP, water bond, and drought relief act activate.
   Made recommendation regarding the request for money from various state special funds.
- Monitor Santa Ana Regional Board agenda and issues of interest to IEUA.

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### Innovative Federal Strategies LLC

Comprehensive Government Relations

### **MEMORANDUM**

To:

Joe Grindstaff and Kathy Besser, IEUA

From:

Letitia White, Jean Denton, and Drew Tatum

Date:

February 29, 2016

Re:

February Monthly Legislative Update

### Appropriations Chairman Takes on Army Corps over "Waters" Rule

House Appropriations Committee Chairman Hal Rogers (R-KY) took aim at the Army Corps of Engineers for its part in the waters of the United States rule issued by the agency and the Environmental Protection Agency. "I'm shooting real bullets here," Chairman Rogers said at an Energy-Water subcommittee hearing on the agency's \$4.62 billion fiscal 2017 budget request. Due to the prevalence of mining in his home state, Rogers specifically took issue with the rule's impact on mining permits. "It's practically impossible to get a permit to mine through your agency and EPA, and I'm just very chagrined that the Corps of Engineers has kowtowed to the EPA," Rogers said. "You're so afraid of a lawsuit that you've let the EPA bully you into doing whatever they want to do."

The "waters" rule is still on hold by the U.S. Court of Appeals for the 6th Circuit based in Cincinnati, Ohio. The three-judge panel put the regulation on hold in October of 2015 when the majority held that the petitioners (the states who filed suit against the federal government) have demonstrated a substantial possibility of success on the merits of their claims. On February 22, the same court ruled against arguments that it did not have proper jurisdiction to review challenges to the rule. Barring an effort to seek review of this decision — either en banc or with the Supreme Court — the decision means the 6th Circuit will hear the merits of the challenge to the waters of the United States rule, which may be good for challengers of the rule based on prior comments.

While taking aim at the agency's involvement in the rulemaking process, lawmakers lamented the administration's budget request for the agency. The request calls for \$4.62 billion in discretionary appropriations, a drop from the \$6 billion enacted in the fiscal year 2016. Lawmakers believe the request would do little to address a massive backlog of projects at the agency. Lt. Gen. Thomas P. Bostick, chief of engineers for the Army Corps, told lawmakers that completing all the construction projects currently budgeted at the agency would cost \$19.7 billion and take nearly 20 years to complete. Acknowledgement of the agency's lack of resources was met with incredulity by Energy-Water Chairman Mike Simpson, R-Idaho, who said in his opening statements that if enacted, the president's fiscal 2017 request would amount to the lowest funding level since 2004.

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### President Obama Sends Final Budget Request to Congress

President Obama delivered his final budget proposal to Congress on February 9, requesting \$4.15 trillion in spending for fiscal year 2017 that begins on October 1, 2016. The proposal would boost total spending by 4.9 percent, mainly as a result of increases in mandatory programs and a rise in interest payments on the national debt. In keeping with the two-year budget deal struck with Congress in December, the president requested only a slight increase, less than 1 percent, in discretionary spending programs overall.

Constrained by tight caps that keep discretionary spending relatively flat, the White House has proposed paying for new initiatives by seeking funding that it considers "mandatory." The use of the "mandatory" label has infuriated Republican appropriators, who view the move as an end-run around spending limits and their own ability to control funding. Mandatory spending programs, which usually require separate authorizing legislation, don't count against the spending limits put in place under last year's bipartisan budget deal. In response, Republicans on the Budget Committee have looked to cut at least \$30 billion from mandatory spending in the fiscal year 2017 budget resolution. House Republican leaders are attempting to woo members of the conservative Freedom Caucus to support a budget resolution after they announced their opposition to any framework that allows for spending above the limits set in the Budget Control Act of 2011.

### Obama Designates New National Monuments

President Obama designated three new national monuments in the California desert Thursday, February 11, expanding federal protection to 1.8 million acres of landscapes in California. The designation came after Senator Dianne Feinstein (D-CA) introduced a new California Desert Conservation and Recreation Act to protect the areas that were not included in her 1994 Desert Protection Act legislation. Unable to move the legislation in Congress, Senator Feinstein decided to take a two-pronged approach—encouraging the president to act unilaterally with an Antiquities Act designation while also encouraging Congress to consider her legislation. In an effort to dissuade the president from acting unilaterally, Representative Paul Cook (R-CA) had introduced his own legislation in the House that would have covered many of the areas included in Feinstein's bill, while protecting some mining interests.

President Obama ultimately decided to move forward after the Department of Interior participated in a field hearing hosted by Senator Feinstein in late 2015. The three proclamations designate the Sand to Snow National Monument, Mojave Trails National Monument, and Castle Mountains National Monument, comprised entirely of existing federal lands. The national monuments will be managed by the Department of the Interior's Bureau of Land Management and National Park Service and by the Department of Agriculture's Forest Service. The proclamations direct the agencies to engage the public in comprehensive planning for the management of these areas, building upon the provisions outlined in the proclamations. The three designations all honor valid existing rights, and provide for continued use for training activities of the U.S. military.

Specifically, the Sand to Snow designation states:

"Nothing in this proclamation shall be construed to interfere with the operation or maintenance, or with the replacement or modification within the existing authorization

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boundary, of existing water resource, flood control, utility, pipeline, or telecommunications facilities that are located within the monument. Existing water resource, flood control, utility, pipeline, or telecommunications facilities located within the monument may be expanded, and new facilities may be constructed within the monument, to the extent consistent with the proper care and management of the objects identified above. This proclamation does not alter or affect the valid existing water rights of any party, including the United States. This proclamation does not reserve water as a matter of Federal law."

#### Republicans Promise to Block Supreme Court Nominee

Upon the passing of Associate Supreme Court Justice Antonin Scalia speculation immediately began around who President Barack Obama might nominate to replace him. After learning of his passing, Senate Majority Leader Mitch McConnell (R-KY) indicated he believed that the president should allow his successor to nominate a replacement. McConnell has reiterated that Republicans do not plan to hold confirmation hearings before the Senate Judiciary Committee when the president sends a nomination to the Senate.

Democrats made clear they are prepared to wage war over Senate Majority Leader Mitch McConnell's refusal to consider any nomination to the court made by President Barack Obama. "When the hard right doesn't get its way, their immediate reaction is, 'shut it down' — and the Republican leadership marches in lockstep," Sen. Chuck Schumer (D-NY) said in a statement Tuesday. Since the majority controls the floor calendar, Democrats could not force a vote against the will of a united Republican caucus. However, Democrats could use tools at their disposal—including the filibuster—to make it difficult for Republicans to accomplish anything until they held a vote on a Supreme Court nominee. While there was initial speculation that Democrats would hold up the appropriations process, Senate Minority Leader Harry Reid (D-NV) told reporters that his party would not be an obstructionist party.

#### Outlook for March

House Republican Leaders are still holding out hope that they will be able to pass a budget resolution in March. Conservatives have called for reductions in mandatory spending programs (Social Security, Medicare, etc.) in the annual budget resolution, which has not been done in prior years. Appropriators believe that targeting mandatory spending in the budget process sets a dangerous precedent in future years.

The House will spend the first week of the month voting on a number of bills under a suspension of the rules, including a reauthorization bill for the Federal Emergency Management Agency. The Senate is expected to bring the Energy Policy Modernization Act back to the floor early in March after coming to an agreement on a federal response to the water crisis in Flint, Michigan. Additionally, Senate Majority Leader Mitch McConnell has teed up consideration of an anti-opioid bill, the Comprehensive Addiction and Recovery Act of 2015.

Appropriations Committees in the House and Senate will continue the process of crafting FY17 spending bills in March, with some subcommittee markups possibly occurring at the end of the month.

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### Federal Legislation of Significance

Bill Number		Title and/or Summary	Summary/Status
H.R.2029	House and Senate	Consolidated	The Consolidated Appropriations Act funds all federal agencies through the
	Appropriations	Appropriations Act, 2016	end of the Fiscal Year, which runs through September 30, 2016.
	Committees		
			IFS spearheaded an effort with Members of Congress to ask that the
			Department of the Interior devote money allocated to "western drought relief"
			for Title XVI and WaterSMART projects. The following Members of
			Congress signed on to the letter: Aguilar, Cook, Chu, Napolitano, Royce, and
			Torres.
			**Update: The Bureau of Reclamation announced that it was allocating \$22.6
			million for Title XVI and WaterSMART grants in fiscal year 2016.
H.R/	Rep. Mike Simpson /	FY 17 Energy and Water	The President's budget request to Congress was released on February 9, 2016.
S	Sen. Lamar Alexander	Development and Related	
		Agencies	The president requested the following funding levels for water recycling and
			conservation programs:
			Title XVI: \$21.5 million, \$1.5 million above the FY16 request, but \$1.8
			million below the FY16 enacted level
			WaterSMART: \$23.4 million, \$35,000 above the FY16 request, and \$3.4
			million above the FY16 enacted level.
			The Appropriations subcommittees may start marking up their respective bills
			by the end of March. At that time we will know how Congress will respond to
			the budget request for Title XVI and WaterSMART grants. IFS has
			undertaken two efforts on your behalf and submitted appropriations requests
			for both Title XVI and WaterSMART that together equal an additional \$22.6
			million in requested additional funds for FY17.
S.2533	Sen. Dianne Feinstein	California Long-Term	With her original legislation not gaining traction at the committee level,
		Provisions for Water	Senator Feinstein reintroduced drought legislation in February after receiving
		Supply and Short-Term	additional feedback from stakeholders in California. The bill also comes after
		Provisions for Emergency	House Republicans attempted to insert their own drought provisions into the
		Drought Relief Act	Consolidated Appropriations Act, 2016.
			Feinstein said that she has continued to work with local, state, and federal
			partners to create her new legislation, though California Republicans in the
			House have said they were not involved in the latest discussions. California
			House Republicans have reiterated that they have already passed a drought bill

			this year, and they believe it is the only legislation that can be passed until the Senate moves legislation that can be conferenced between the two chambers.
H.R.2898	Rep. David Valadao	Western Water and American Food Security Act of 2015	Passed the House.  First Legislative Committee Hearing was held in early October 2015 in the Senate. As mentioned above, Senator Feinstein has reintroduced drought legislation in the Senate in an effort to conference a bill with the House before the end of the 114 th Congress.
S.2012	Sen. Lisa Murkowski	Energy Policy Modernization Act of 2015	The Senate is considering its first broad energy reform policy bill in eight years. The bill includes a number of policy priorities from both Republicans and Democrats and came as a result of months of negotiations, meetings outreach and other activities aimed at a truly bipartisan bill. The bill instead on fossil fuels and infrastructure: natural gas pipeline permitting, authorizing the main federal conservation fund, job training, updating the grid, as well as a push on energy efficiency.  The legislation was pulled from the floor in February after amendments related to the water crisis in Flint, Michigan caused procedural delays. Republicans and Democrats believe they have an agreement that will allow the legislation
H.R.4470	Rep. Dan Kildee (D-MI) / Rep. Fred Upton (R-MI)	Safe Drinking Water Act Improved Compliance Awareness Act	to return to the floor in March.  The House has approved legislation to clarify the Environmental Protection Agency's authority to notify the public about danger from lead in their drinking water. The bill is the first approved by Congress to respond to the water crisis in Flint, Michigan. The legislation requires the Environmental Protection Agency to notify the public when concentrations of lead in drinking water rise above mandated levels and to create a plan to improve communication between the agency, utilities, states, and consumers. While the bill's authors admit that the new legislation will not prevent future water contamination, they contend that it will prevent the situation from dragging out as has happened in Flint.
			The legislation has not been taken up in the Senate, but it is expected to receive bipartisan support when Senators vote.

### State Legislation to Watch

Bill Number	Sponsor	Title and/or Summary	Summary/Status
AB 1713	Eggman	Sacramento-San Joaquin Delta: peripheral canal	Current law requires various state agencies to administer programs relating to water supply, water quality, and flood management in the Sacramento-San Joaquin Delta. The bill would prohibit the construction of a peripheral canal, as defined, unless expressly authorized by an initiative voted on by the voters of California on or after January 1, 2017, and would require the Legislative Analyst's Office to complete a prescribed economic feasibility analysis prior to a vote authorizing the construction of a peripheral canal.
AB 1738	McCarty	Building Standards: Dark Graywater	Would define "dark graywater" as a specified wastewater that comes from kitchen sinks and dishwashers. This bill would require the Department of Housing and Community Development, at the next triennial building standards rulemaking cycle, to adopt and submit for approval building standards for the construction, installation, and alteration of dark graywater systems for indoor and outdoor uses. This bill contains other existing laws.
AB 1749	Mathis	California Environmental Quality Act: exemption: recycled water pipelines	CEQA exempts from its requirements projects consisting of the construction or expansion of recycled water pipeline and directly related infrastructure within existing rights of way, and directly related groundwater replenishment, if the project does not affect wetlands or sensitive habitat, and where the construction impacts are fully mitigated, and undertaken for the purpose of mitigating drought conditions for which a state of emergency was proclaimed by the Governor on a certain date. CEQA provides that this exemption remains operative until the state of emergency has expired or until January 1, 2017, whichever occurs first. This bill would extend that date to January 1, 2022.
AB 1842	Levine	Water Pollution: Fines	Current law imposes a maximum civil penalty of \$25,000 on a person who discharges various pollutants or other designated materials into the waters of the state. This bill would impose an additional civil penalty of not more than \$10 for each gallon or pound of polluting material discharged. The bill would require that the civil penalty be reduced for every gallon or pound of the illegally discharged material that is recovered and properly disposed of by the responsible party.
AB 2206	Williams	Biomethane: interconnection and injection into common carrier pipelines: research	Would request the California Council on Science and Technology to undertake and complete a study analyzing the regional and gas corporation specific issues relating to minimum heating value and maximum siloxane specifications adopted by the Public Utilities Commission for biomethane before it can be injected into common carrier gas pipelines. If the California Council on Science and Technology agrees to undertake and complete the study, the bill would require each gas corporation operating common carrier pipelines in California to proportionately contribute to the expenses to undertake the study with the cost recoverable in rates.

AB 2313	Williams	Renewable Natural Gas	The California Global Warming Solutions Act of 2006 establishes the State Air Resources Board as the state agency responsible for monitoring and regulating sources emitting greenhouse gases. This bill would require the state board to study and evaluate a strategy or strategies to increase the instate production and use of renewable natural gas, as defined, to further specified goals.
AB 2702	Atkins	Climate Change	Would state the intent of the Legislature to enact legislation that would continue the work with local governments, state agencies, and others to meet the goals set forth in Governor Brown's Under 2 MOU, which brings together subnational governments willing to commit to either reducing the emissions of greenhouse gases 80% to 95% below 1990 levels by 2050 or achieving a per capita annual emissions target of less than 2 metric tons of carbon dioxide equivalent by 2050.
ACA-8	Bloom	Local government financing: water facilities and infrastructure: voter approval	Would create an additional exception to the 1% limit for a rate imposed by a city, county, city and county, or special district to service bonded indebtedness incurred to fund the construction, reconstruction, rehabilitation, or replacement of wastewater treatment facilities and related infrastructure, potable water producing facilities and related infrastructure, nonpotable water producing facilities and related infrastructure, and stormwater treatment facilities and related infrastructure, that is approved by 55% of the voters of the city, county, city and county, or special district, as applicable, if the proposition meets specified requirements, and would authorize a city, county, city and county, or special district to levy a 55% vote ad valorem tax. This bill contains other related provisions and other existing laws.
SB 163	Hertzberg	Wastewater treatment: recycled water	Would declare that the discharge of treated wastewater from ocean outfalls, except in compliance with the bill's provisions, is a waste and unreasonable use of water in light of the cost- effective opportunities to recycle this water for further beneficial use. This bill, on or before January 1, 2026, would require a wastewater treatment facility discharging through an ocean outfall to achieve at least 50% reuse of the facility's actual annual flow, as defined, for beneficial purposes.
SB 1043	Allen	Renewable gas: biogas and biomethane	Would require the State Air Resources Board to consider and adopt policies to significantly increase the sustainable production and use of renewable gas, as defined, and, in so doing, would require the state board, among other things, to ensure the production and use of renewable gas provides direct environmental benefits and identify barriers to the rapid development and use of renewable gas and potential sources of funding.
SB 1813	Wolk	Local government: drinking water	Would prohibit a local agency formation commission from authorizing a city or a district to extend drinking water infrastructure or services or wastewater infrastructure or services until it has extended those

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Date:

March 16, 2016

To:

The Honorable Board of Directors

Through:

Public, Legislative Affairs, and Water Resources Committee (3/9/16)

From:

P. Joseph Grindstaff General Manager

Submitted by:

Kathy Besser

Manager of External Affairs

Subject:

Public Outreach and Communication

#### RECOMMENDATION

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

#### **BACKGROUND**

#### March

• March 21, IEUA Hosted Special District's Dinner, Panda Inn - 3223 E. Centrelake Drive, Ontario, 6:00 p.m. – 9:00 p.m.

#### April

- April 20, IEUA Earth Day Event (Student Day), Chino Creek Park, 9:00 a.m. 2:00 p.m.
- April 21, IEUA Earth Day Event (Community Day), Chino Creek Park, 4:00 p.m. 7:00 p.m.
- April 22, Eagle Canyon Elementary GIES Dedication, 13435 Eagle Canyon Drive, Chino Hills, 11:30 a.m. 1:00 p.m.

#### May

- May 5, Truman Middle School GIES Dedication, 16224 Mallory Drive, Fontana, 2:00 p.m. 3:00 p.m.
- May 13-15, MWD Solar Cup Competition, Lake Skinner
- May 24, Cortez Elementary School GIES Dedication, 12750 Carissa Ave., Chino, 5:45 p.m.

#### Outreach/Education - Civic Publications Newspaper Campaign

• IEUA staff has been working in collaboration with Civic Publications to develop and distribute *Kick the Habit* display add that focus on irrigation tips during the winter season.

Public Outreach and Communication March 16, 2016 Page 2

The display ads are linked to the *Kick the Habit* micro-site, which displays IEUA's campaign message, tips and member agency links.

• IEUA sent an email blast to 157,000 households in the IEUA service area on February 24, 2016. The email blast led viewers to the *Kick the Habit* micro-site.

#### Media and Outreach

- IEUA staff is working with member agencies to distribute *Kick the Habit* mirror clings and vehicle magnets. To date, the city of Chino, city of Ontario, Chino Basin Water Conservation District, Fontana Water Company, and San Antonio Water Company have requested and received vehicle magnets and clings. Internally, Facilities Management has completed placement of vehicle magnets on all Agency vehicles.
- Fix a Leak Week print advertisements will run in the Daily Bulletin in March.
- *Kick the Habit* bus advertisements in English and Spanish began on October 5, 2015 for an initial six month run and will continue to run for another six months.
- IEUA staff worked with Tripepi Smith and Associates to develop a movie theater ad that is currently showing at Victoria Gardens and Ontario Palace. The ad will run through mid-May. The trailer ad is also running on YouTube and has had over 46,000 views a 30,000 increase in February alone.
- In March, 12 items were posted to Facebook and 19 tweets were sent under the @IEUAwater Twitter handle.
- Staff will begin implementing Friday Foliage as a weekly spot on IEUA's social media channels that highlight water efficient California native and drought tolerant plants. It also features pictures of the plants and information regarding the plant (i.e. good for slopes, attractive to butterflies, etc.).

#### Education and Outreach Updates

- Water Discovery Program: 754 Girl Scout troop members, elementary, middle and high school students have taken part in the park field trip from July 1, 2015 through February 29, 2016. The Busing Mini-Grant program was extended through December 2020.
- The GIES Dedication for Cypress Elementary in Fontana was held on February 25. The principal and assistant principal were given a certificate and framed pictures of their garden for display. Representatives from Fontana Water Company were in attendance.
- Staff has begun outreaching for IEUA's "Water is Life" poster contest. Deadline for submissions is March 3, 2016.
- Staff, in cooperation with member agencies, has recruited three teams for MWD's 2016
   Solar Cup Competition to be held May 13-16, 2016. Final team names and contact
   information were submitted to MWD on October 1, 2015 for the 2016 program year:
   Chino High School (Chino), Chino Hills High School (Chino Hills) and Henry J. Kaiser
   High School (Fontana).
- Staff has begun scheduling schools for the Earth Day field trip portion. Currently, 1,244 students are scheduled to attend the student day.

#### PRIOR BOARD ACTION

Public Outreach and Communication March 16, 2016 Page 3

None.

### **IMPACT ON BUDGET**

The above-mentioned activities are budgeted in the FY 2015/16 Administrative Service Fund, External Affairs Services budget.

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### **CHINO BASIN WATERMASTER**

### IV. INFORMATION

1. Cash Disbursements for February 2016

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	02/04/2016	19187	CHARTER COMMUNICATIONS	8245100651455350	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	8245100651455350		2/06/16-3/05/16	6053 · Internet Expense	64.99
TOTA	L						64.99
	Bill Pmt -Check	02/04/2016	19188	CHEF DAVE'S CAFE & CATERING	5891	1012 · Bank of America Gen'l Ckg	
	Bill	01/28/2016	5891		Lunch for 1/28/16 Watermaster Board meeting	6312 · Meeting Expenses	639.80
TOTA	L						639.80
	Bill Pmt -Check	02/04/2016	19189	EMPOWER LAB		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	12/11/2015	121115		Debrief w/Anna Danni, Joe	6013 · Human Resources Services	450.00
	Bill	01/07/2016	10716		CVI group workshop	6013 · Human Resources Services	1,500.00
TOTA	L						1,950.00
	Bill Pmt -Check	02/04/2016	19190	OFFICE TEAM	44919306	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/28/2016	44919306		Week ending 1/22/16	6017.2 · Office Specialist Services	1,170.33
TOTA	L						1,170.33
Р1	Bill Pmt -Check	02/04/2016	19191	PARK PLACE COMPUTER SOLUTIONS, INC.	508	1012 · Bank of America Gen'l Ckg	
87	Bill	01/31/2016	508	·	IT Consulting Services - January 2016	6052.1 · Park Place Comp Solutn	1,650.00
TOTA	L			•			1,650.00
	Bill Pmt -Check	02/04/2016	19192	PETTY CASH	2561-2573	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	2561-2573		Purchase supplies for Board meetings	6312 · Meeting Expenses	36.50
					Purchase miscellaneous office supplies	6031.7 Other Office Supplies	65.17
					Purchase supplies for field work	6151 · Small Tools & Equipment	26.99
					Mileage reimbursement for seminar	6192 · Seminars - General	37.80
					PK travel reimbursement	6191 · Conferences - General	38.26
					PK and A.Truong mtgs w/Appropriatiors	8312 · Meeting Expenses	80.92
					Purchase supplies for staff meeting	6141.1 · Meeting Supplies	15.99
TOTA	\L						301.63
	Bill Pmt -Check	02/04/2016	19193	PRINTING RESOURCES	62854	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/28/2016	62854		Name plates-Thomas, Curatalo, Board Clerk	6031.7 · Other Office Supplies	92.02
TOTA	<b>L</b>						92.02
	Bill Pmt -Check	02/04/2016	19194	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	1394905143		Annual Unfunded Acrrued Liability	60180 · Employers PERS Expense	3,077.00
TOTA	<b>AL</b>						3,077.00
-							•

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	02/04/2016	19195	PURCHASE POWER	8000909000168851	1012 · Bank of America Gen'l Ckg	
	Bill	01/28/2016	8000-9090-0016-8851		Charges	6042 · Postage - General	2.17
TOTA	L						2.17
	Bill Pmt -Check	02/04/2016	19196	RR FRANCHISING, INC.	17178	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	17178		Monthly service charge for February 2016	6024 · Building Repair & Maintenance	740.00
TOTA	L						740.00
	Bill Pmt -Check	02/04/2016	19197	VISION SERVICE PLAN	00-101789-0001	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/28/2016	00-101789-0001		Vision Insurance - February 2016	60182.2 · Dental & Vision Ins	85.60
ТОТА	L						85.60
	Bill Pmt -Check	02/04/2016	19198	YUKON DISPOSAL SERVICE	08-K2 213849	1012 · Bank of America Gen'l Ckg	
	Bill	02/01/2016	08-k2 213849		Disposal Service - February 2016	6024 · Building Repair & Maintenance	111.57
TOTA	L						111.57
	Bill Pmt -Check	02/04/2016	19199	BROWNSTEIN HYATT FARBER SCHRECK		1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	625989		625989	6078 · BHFS Legal - Miscellaneous	27,762.30
P <u>1</u>					625989	6907.42 · Safe Yield Recalculation	226.80
88	Bill	12/31/2015	625990		Alvarez-CalPERS	6073 · BHFS Legal - Personnel Matters	2,257.20
•					Personnel	6073 · BHFS Legal - Personnel Matters	1,723.95
	Bill	12/31/2015	625991		625991	8375 · BHFS Legal - Appropriative Pool	76.50
	Bill	12/31/2015	625992		625992	8475 · BHFS Legal - Agricultural Pool	76.50
	Bill	12/31/2015	625993		625993	8575 · BHFS Legal - Non-Ag Pool	76.50
	Bill	12/31/2015	625994		625994	6071 · BHFS Legal - Court Coordination	267.75
	Bill	12/31/2015	625995		625995	6907.39 · Recharge Master Plan	339.75
	Bill	12/31/2015	625996		625996	6907.41 · Prado Basin Habitat Sustain	3,828.15
	Bill	12/31/2015	625997		625997	6907.42 · Safe Yield Recalculation	38,025.90
					Expenses	6907.42 · Safe Yield Recalculation	44.13
TOTA	L						74,705.43
	Bill Pmt -Check	02/04/2016	19200	EUROFINS EATON ANALYTICAL	•	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	12/31/2015	L0243889		L0243889	7103.5 · Grdwtr Qual-Lab Svcs	1,476.00
	Bill	12/31/2015	L0243891		L0243891	7103.5 Grdwtr Qual-Lab Svcs	1,386.00
	Bill	12/31/2015	L0243893		L0243893	7103.5 · Grdwtr Qual-Lab Svcs	2,014.00
	Bill	12/31/2015	L0243894		L0243894	7103.5 · Grdwtr Qual-Lab Svcs	483.00
	Bill	12/31/2015	L0243896		L0243896	7103.5 · Grdwtr Qual-Lab Svcs	1,386.00
	Bill	12/31/2015	L0245660		L0245660	7108.41 · Hydraulic Control - PBHSP	2,732.00
	Bill	12/31/2015	L0245766		L0245766	7108.41 · Hydraulic Control - PBHSP	2,732.00
	Bill	12/31/2015	L0246665		L0246665	7108.41 · Hydraulic Control - PBHSP	2,732.00

	Type	Date	Num	Name	Memo	Account	Paid Amount
	Bill	12/31/2015	L0246666		L0246666	7108.41 · Hydraulic Control - PBHSP	3,988.00
TOTAL	-						18,929.00
	Bill Pmt -Check	02/04/2016	19201	WILDERMUTH ENVIRONMENTAL INC		1012 · Bank of America Gen'l Ckg	
	Bill	12/31/2015	2015380		2015380	6906.32 · OBMP-Other General Meetings	4,790.48
	Bill	12/31/2015	2015381		2015381	6906.74 · OBMP-Mat'l Phy. Injury Requests	1,460.00
	Bill	12/31/2015	2015382		2015382	6906.71 · OBMP-Data ReqCBWM Staff	14,215.10
	Bill	12/31/2015	2015383		2015383	6906.72 · OBMP-Data ReqNon CBWM Staff	538.25
	Bill	12/31/2015	2015384		2015384	6906.23 · SGMA Reporting Requirements	1,415.50
	Bill	12/31/2015	2015385		2015385	6906 · OBMP Engineering Services	2,033.75
	Bill	12/31/2015	2015386		2015386	6906.1 · OBMP-Watermaster Model Update	48,323.50
	Bill	12/31/2015	2015387		2015387	7103.3 · Grdwtr Qual-Engineering	2,130.93
	Bill	12/31/2015	2015388		2015388	7104.3 · Grdwtr Level-Engineering	6,972.65
	Bill	12/31/2015	2015389		2015389	7107.2 · Grd Level-Engineering	1,779.35
	Bill	12/31/2015	2015390		2015390	7108.32 · HCMP - Adaptive Mgmt Plan	1,330.00
	Bill	12/31/2015	2015391		2015391	7108.31 · Hydraulic Control - PBHSP	27,362.61
	Bill.	12/31/2015	2015392		2015392	7202.2 · Engineering Svc	2,868.75
	Bill	12/31/2015	2015393		2015393	7402 · PE4-Engineering	536.25
P 1	Bill	12/31/2015	2015394		2015394	7402.10 · PE4 - MZ1 Pomona Project	17,983.05
00	Bill	12/31/2015	2015395		2015395	7502 · PE6&7-Engineering	3,868.50
	Bill	12/31/2015	2015396		2015396	7602 · PE8&9-Engineering	14,536.00
TOTA	L					-	152,144.67
	Bill Pmt -Check	02/05/2016	ACH 020516	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	
	General Journal	01/30/2016	02/05/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/17/16-01/30/16	2000 · Accounts Payable	6,437.65
TOTA	L						6,437.65
	Bill Pmt -Check	02/12/2016	19202	ACWA JOINT POWERS INSURANCE AUTHORIT	r\ 0394835	1012 · Bank of America Gen'l Ckg	
	Bill	02/08/2016	0394835		Prepayment - March 2016	1409 · Prepaid Life, BAD&D & LTD	135.13
					February 2016	60191 · Life & Disab.Ins Benefits	130.91
TOTA	L						266.04
	Bill Pmt -Check	02/12/2016	19203	BOWCOCK, ROBERT	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/28/2016	1/28 Board Mtg	20110001, 11022111	1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTA		0 1/20/20 10	Web Board Mag		, <u></u>	=	125.00
	Bill Pmt -Check	02/12/2016	19204	BOWMAN, JIM	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTA	L						125.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	02/12/2016	19205	CORELOGIC INFORMATION SOLUTIONS	81662009	1012 - Bank of America Gen'l Ckg	
	Bill	01/31/2016	81662009		81662009	7103.7 · Grdwtr Qual-Computer Svc	62.50
					81662009	7101.4 · Prod Monitor-Computer	62.50
TOTA	L						125.00
	Bill Pmt -Check	02/12/2016	19206	COSTCO WHOLESALE	7003-7309-1000-2744	1012 · Bank of America Gen'l Ckg	
	Bill	01/29/2016	7003-7309-1000-2744		Miscellaneous office supplies	6031.7 · Other Office Supplies	78.15
TOTA	L						78.15
	Bill Pmt -Check	02/12/2016	19207	CURATALO, JAMES	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
TOTA	L						125.00
	Bill Pmt -Check	02/12/2016	19208	DE BOOM, NATHAN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	,L						125.00
P 1 9	Bill Pmt -Check	02/12/2016	19209	DE HAAN, HENRY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
0	Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	<b>L</b>						125.00
	Bill Pmt -Check	02/12/2016	19210	ELIE, STEVEN	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/04/2016	1/04 Admin Mtg		1/04/16 Administrative meeting w/PK	6311 · Board Member Compensation	125.00
	Bill	01/21/2016	1/21 Personnel Comm		1/21/16 Personnel Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Mtg	6311 · Board Member Compensation	125.00
TOTA	AL.						375.00
	Bill Pmt -Check	02/12/2016	19211	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/06/2016	1/06 Mtg w/PK		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/06/16 Ag Pool business meeting w/Kavounas	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/21/2016	1/21 Personnel Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/21/16 Personnel Committee meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/28/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	AL						500.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	02/12/2016	19212	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Appro Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Appropriative Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/14/2016	1/14 Non Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Non Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/21/2016	1/21 RIPCom Mtg		Ag Pool Member Compensation	8411 - Compensation	25.00
					1/21/16 RIPCom Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/28/16 Board Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	_						625.00
	Bill Pmt -Check	02/12/2016	19213	HUITSING, JOHN	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	_						125.00
ب ب							
19	Bill Pmt -Check	02/12/2016	19214	IPSWITCH, INC.	2015-166810	1012 · Bank of America Gen'l Ckg	
	Bill	02/08/2016	2015-166810		1 year support for FTP Server	6055 · Computer Hardware	257.00
TOTA	_						257.00
	Bill Pmt -Check	02/12/2016	19215	OFFICE TEAM	44979135	1012 · Bank of America Gen'l Ckg	
	Bill	01/29/2016	44979135		Week ending 1/29/16	6017.2 · Office Specialist Services	1,108.00
TOTA							1,108.00
							·
	Bill Pmt -Check	02/12/2016	19216	PAYCHEX	2016012800	1012 · Bank of America Gen'l Ckg	
	Bill	01/31/2016	2016012800		January 2016	6012 · Payroll Services	507.61
TOTA	L						507.61
	Bill Pmt -Check	02/12/2016	19217	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Ag Pool Mtg	,	Ag Pool Member Compensation	8411 · Compensation	25.00
					1/14/16 Ag Pool Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/28/2016	1/28 Board Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
			,		1/28/16 Board meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	L				,	,	250,00
10171	_						200,00
	Bill Pmt -Check	02/12/2016	19218	PREMIERE GLOBAL SERVICES	20342573	1012 · Bank of America Gen'l Ckg	
	Bill	01/31/2016	20342573		WM coordination call on 1/04	6909.1 · OBMP Meetings	30.48
	5	31/01/2010	20072010		The Solution out on 1704	Cook Committee	33.40

Search of Weiting Containing Co		Туре	Date	Num	Name	Memo	Account	Paid Amount
Safe Visid Respondence of m 172   6908.77 c CSMT-266 Visid Respondence of m 174   6918.72 c Mandring Expertax		District Control of the Control of t				Board call w/Elie, Kavounas, Slater on 1/04	6312 · Meeting Expenses	10.57
Pool infligs check call on 1713   512   Merling Expense   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16   6.16						WM coordination call on 1/11	6909.1 · OBMP Meetings	26.48
Polity   P						Safe Yield Reset call on 1/12	6906.73 · OBMP-Safe Yield Recalculation	29.49
Pool Impachence and on 1115   612   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524   524						Pool mtgs check call on 1/13	8512 · Meeting Expense	6.18
NonAg Paoling axi on 174    \$12						Pool mtgs check call on 1/13	8412 · Meeting Expenses	6.18
Miles						Pool mtgs check call on 1/13	8312 · Meeting Expenses	6.18
Miles						Non-Ag Pool mtg call on 1/14	8512 · Meeting Expense	36.62
Miles						WM coordination call on 1/18	6909.1 · OBMP Meetings	21.49
Mathematical Components   Mathematical Com						WM coordination call on 1/18	6909.1 · OBMP Meetings	6.14
Mill Condination (all on 1/25)   \$999,1 · OBMP Meetings   \$27,14   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000   \$40,000						WM coordination call on 1/18	6909.1 · OBMP Meetings	6.15
Pea - Confidential						Volume Vote call on 1/19	6909.1 · OBMP Meetings	21.71
Page					,	WM coordination call on 1/25	6909.1 · OBMP Meetings	27.14
Service fee						Fee - Confidential	6022 · Telephone	49.00
						Fee - General	6022 · Telephone	49.00
Bill Pmt - Check   Pmt - Che						Service fee	6022 · Telephone	8.22
1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2	TOTAL	L						341.03
1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2   1/2								
12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   1250		Bill Pmt -Check	02/12/2016	19219	SANTA ANA RIVER WATER COMPANY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Part	Р1	Bill	01/21/2016	1/21 Personnel Comm		1/21/16 Personnel Committee Meeting - Rodrig	uez 6311 · Board Member Compensation	125.00
Bill Pmt -Check   02/12/2016   19220   1/28 Board Mtg   1/28/16 Board Meeting   1/28/16 Board Meetin	T <b>COD</b> AI	L						125.00
Bill Pmt -Check   Dill Pmt -	2							
		Bill Pmt -Check	02/12/2016	19220	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
Bill Pmt - Check   Dill 2   Dill 3   Dill 2   Dill 3   Dill 2   Dill 3		Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
Sill   Pmt - Check   Dil/14/2016   TOTAL   Fuel - January 2016   Fuel - January 2016   Sord Member Compensation   1012 · Bank of America Gen'l Ckg   125.00	TOTA	L						125.00
Sill   Pmt - Check   Dil/14/2016   TOTAL   Fuel - January 2016   Fuel - January 2016   Sord Member Compensation   1012 · Bank of America Gen'l Ckg   125.00								
Bill Pmt - Check   D2/12/2016   19222   VANDEN HEUVEL, GEOFFREY   Board Member Compensation   1012 · Bank of America Gen'l Ckg   1/28/16 Board Meeting   1/28/16 Board Member Compensation   1012 · Bank of America Gen'l Ckg   1/28/16 Board Meeting   1/28/16 Board Member Compensation   125.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1		Bill Pmt -Check	02/12/2016	19221	UNION 76	7076-2245-3035-5049	1012 · Bank of America Gen'l Ckg	
Bill Pmt - Check   02/12/2016   19222   VANDEN HEUVEL, GEOFFREY   Board Member Compensation   1012 · Bank of America Gen'l Ckg   1/28 Board Member Compensation   1/28/16 Bo		Bill	01/29/2016	7076-2245-3035-5049		Fuel - January 2016	6175 · Vehicle Fuel	186.01
Bill   Pmt - Check   D1/12/2016   1/28   Board Mtg   1/28   Board Mtg   1/28/16   Board Meeting   6311 · Board Member Compensation   125.00	TOTA	L						186.01
Bill   Pmt - Check   D1/12/2016   1/28   Board Mtg   1/28   Board Mtg   1/28/16   Board Meeting   6311 · Board Member Compensation   125.00								
Bill Pmt - Check   02/12/2016   19223   VANDEN HEUVEL, ROB   Ag Pool Member Compensation   1012 · Bank of America Gen'l Ckg   Ag Pool Member Compensation   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016   1/14 / 2016		Bill Pmt -Check	02/12/2016	19222	VANDEN HEUVEL, GEOFFREY	<b>Board Member Compensation</b>	1012 · Bank of America Gen'l Ckg	
Bill Pmt -Check   02/12/2016   19223   VANDEN HEUVEL, ROB   Ag Pool Member Compensation   1012 · Bank of America Gen'l Ckg   Ag Pool Member Compensation   8411 · Compensation   25.00   1/14/2016   1/14 Ag Pool Mtg   1/14/16 Ag Pool meeting   100.00   1/14/16 Ag Pool meeting   1/14/		Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting	6311 · Board Member Compensation	125.00
Bill   01/14/2016   1/14 Ag Pool Mtg   Ag Pool Member Compensation   8411 · Compensation   25.00   1/14/16 Ag Pool meeting   100.00   1/14/16 Ag Pool meeting   100.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.	TOTA	L						125.00
Bill   01/14/2016   1/14 Ag Pool Mtg   Ag Pool Member Compensation   8411 · Compensation   25.00   1/14/16 Ag Pool meeting   100.00   1/14/16 Ag Pool meeting   100.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.00   1/25.								
1/14/16 Ag Pool meeting		Bill Pmt -Check	02/12/2016	19223	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
TOTAL  Bill Pmt -Check 02/12/2016 19224 WESTERN MUNICIPAL WATER DISTRICT Board Member Compensation 1012 · Bank of America Gen'l Ckg		Bill	01/14/2016	1/14 Ag Pool Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
Bill Pmt -Check 02/12/2016 19224 WESTERN MUNICIPAL WATER DISTRICT Board Member Compensation 1012 · Bank of America Gen'l Ckg						1/14/16 Ag Pool meeting	8470 · Ag Meeting Attend -Special	100.00
	TOTA	L						125.00
Bill 01/28/2016 1/28 Board Mtg 1/28/16 Board Meeting - Galleano 6311 · Board Member Compensation 125.00		Bill Pmt -Check	02/12/2016	19224	WESTERN MUNICIPAL WATER DISTRICT	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
		Bill	01/28/2016	1/28 Board Mtg		1/28/16 Board Meeting - Galleano	6311 · Board Member Compensation	125.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL	-						125.00
	Dill Dood Ob sale	00/40/0040	40005	LIGGAN LOVELLE	2004500	4040 Park of Arrania Carll Char	
	Bill Pmt -Check	<b>02/12/2016</b> 01/31/2016	<b>19225</b> 2961520	HOGAN LOVELLS	2961520 Non-Ag Pool Legal Services - December 2015	1012 · Bank of America Gen'l Ckg 8567 · Non-Ag Legal Service	4,346.55
TOTAL		0110112010	200 1020		Non-Ag 1 doi: Logar doi Nood Boodinboi 2010	The state of the s	4,346.55
							,
	General Journal	02/13/2016	02/13/2016	Payroll and Taxes for 01/31/16-02/13/16	Payroll and Taxes for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	
	•				Direct Deposits for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	23,382.95
					Payroll Taxes for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	8,975.64
					Checks for 01/31/16-02/13/16	1014 · Bank of America P/R Ckg	983.27
				ICMA-RC	457(f) Employee Deductions for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	3,874.52
				ICMA-RC	401(a) Employee Deductions for 01/31/16-02/13/16	1012 · Bank of America Gen'l Ckg	1,200.05
TOTA	-						38,416.43
					- "		
	Bill Pmt -Check	02/19/2016	ACH 021916	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	Payor #3493	1012 · Bank of America Gen'l Ckg	0.470.00
TOT4	General Journal	02/13/2016	02/13/2016	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CalPERS Retirement for 01/31/16-02/13/16	2000 · Accounts Payable	6,470.32
TOTA	_					•	6,470.32
P 1	Bill Pmt -Check	02/23/2016	19226	BOWMAN, JIM	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
19		01/13/2016	1/13 Admin Mtg	,	1/13/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
မ သ TOTA	L		-		-	·	125.00
	Bill Pmt -Check	02/23/2016	19227	CALPERS	1394905143	1012 · Bank of America Gen'l Ckg	
	Bill	02/08/2016	1394905143		1394905143	60182.1 · Medical Insurance	10,370.88
TOTA	L						10,370.88
	Bill Pmt -Check	02/23/2016	19228	CLEAN TECH SERVICES	5278	1012 · Bank of America Gen'l Ckg	
	Bill	02/17/2016	5278		Window cleaning, hard water spot removal	6024 · Building Repair & Maintenance	426.00
TOTA	L						426.00
	Bill Pmt -Check	02/23/2016	19229	CUCAMONGA VALLEY WATER DISTRICT	Lease due March 1, 2016	1012 · Bank of America Gen'l Ckg	
	Bill	02/16/2016			Lease due March 1, 2016	1422 · Prepaid Rent	6,371.16
TOTA	L						6,371.16
	Dill Dest Charle	02/22/2040	40020	DE DOOM NATUAN	Ag Dool Mombox Componenties	1012 - Pank of Amorina Con!! Che	
	Bill Pmt -Check Bill	02/23/2016	19230 1/21 Advisory Comm	DE BOOM, NATHAN	Ag Pool Member Compensation  Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg 8411 · Compensation	25.00
	וווט	01/21/2016	1121 AUVISORY COITIM		1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	1				112 11 To May 301 y Committee Weeting	on o ng wooding menu opeolal	125.00
TOTA	L						123.00
	Bill Pmt -Check	02/23/2016	19231	EGOSCUE LAW GROUP	11143	1012 · Bank of America Gen'l Ckg	

-	Туре	Date	Num	Name	Memo	Account	Paid Amount
_	Bill	01/31/2016	11143		Ag Pool Legal Services - January 2016	8467 · Ag Legal & Technical Services	41,732.50
TOTAL							41,732.50
	Bill Pmt -Check	02/23/2016	19232	ELIE, STEVEN	Board Member Compensation	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	01/21/2016	1/21 Advisory Comm		1/21/16 Advisory Committee Meeting	6311 · Board Member Compensation	125.00
	Bill	01/26/2016	1/26 Admin Mtg		1/26/2016 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	02/23/2016	19233	FEENSTRA, BOB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	02/23/2016	19234	GALAXY AUDIO VISUAL	1206	1012 · Bank of America Gen'l Ckg	
	Bill .	02/08/2016	1206		Board room handheld microphones	6055 · Computer Hardware	2,547.77
TOTAL							2,547.77
	Bill Pmt -Check	02/23/2016	19235	HALL, PETE*	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
P 1	Bill	01/21/2016	1/21 Advisory Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
မွ					1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOTAL							125.00
	Bill Pmt -Check	02/23/2016	19236	KAVOUNAS, PETER	Travel Expense Reimbursement	1012 · Bank of America Gen'l Ckg	
	Bill	02/16/2016			Travel-GRA SGMA Event-Davis, CA	6171.1 · GM - Reimbursement	467.64
					Meals-GRA SGMA Event-Davis, CA	6191 · Conferences - General	32.66
TOTAL							500.30
	Bill Pmt -Check	02/23/2016	19237	кини, вов	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Appro Pool Mtg		1/14/16 Appropriative Pool Meeting	6311 · Board Member Compensation	125.00
	Bill	01/18/2016	1/18 Admin Mtg		1/18/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTAL							250.00
	Bill Pmt -Check	02/23/2016	19238	LEGAL SHIELD	0111802	1012 · Bank of America Gen'l Ckg	
	Bill	02/17/2016	0111802		Employee deductions - February 2016	60194 · Other Employee Insurance	51.80
TOTAL							51.80
	Bill Pmt -Check	02/23/2016	19239	OFFICE DEPOT		1012 ⋅ Bank of America Gen'l Ckg	
	Bill	02/06/2016	822785957001		Miscellaneous office supplies	6031.7 · Other Office Supplies	35.29
	Bill	02/08/2016	822785294001		Miscellaneous office supplies	6031.7 · Other Office Supplies	21.14
	Bill	02/08/2016	822785956001		Miscellaneous office supplies	6031.7 · Other Office Supplies	12.93

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTA							69.36
	Bill Pmt -Check	02/23/2016	19240	PIERSON, JEFFREY	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/21/2016	1/21 Advisory Comm	,	Ag Pool Member Compensation	8411 · Compensation	25.00
			·		1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
	Bill	01/21/2016	1/21 RIPCom Mtg		Ag Pool Member Compensation	8411 · Compensation	25.00
					1/21/16 RIPCom meeting	8470 · Ag Meeting Attend -Special	100.00
TOTA	L						250.00
	Bill Pmt -Check	02/23/2016	19241	PITNEY BOWES CREDIT CORPORATION	6684246	1012 ⋅ Bank of America Gen'l Ckg	
	Bill	02/17/2016	6684246		Postage meter lease	6044 · Postage Meter Lease	402.85
TOTA						<b>6</b>	402.85
	Bill Pmt -Check	02/23/2016	19242	PRINTING RESOURCES	62891	1012 · Bank of America Gen'l Ckg	
	Bill	02/09/2016	62891		Business cards - A. Truong, R. Zapien	6031.7 · Other Office Supplies	151.71
TOTA	L						151.71
	Bill Pmt -Check	02/23/2016	19243	RON SHELLEY'S AUTOMOTIVE		1012 · Bank of America Gen'l Ckg	
Р1	Bill	02/11/2016	7951		Maintenance for F-150	6177 · Vehicle Repairs & Maintenance	193.91
TOTA	Bill	02/16/2016	7986		Maintenance for 2001 Dakota	6177 · Vehicle Repairs & Maintenance	68.35
TOTA	L						262.26
	Bill Pmt -Check	02/23/2016	19244	STAPLES BUSINESS ADVANTAGE	8037946377	1012 · Bank of America Gen'l Ckg	407.00
	Bill	02/06/2016	8037946377		Miscellaneous office supplies	6031.7 · Other Office Supplies	127.00
TOTA	L	•					127.00
	Bill Pmt -Check	02/23/2016	19245	STAULA, MARY L	Retiree Medical	1012 · Bank of America Gen'l Ckg	
	Bill	02/16/2016		,		60182.4 · Retiree Medical	23.62
TOTA	,L						23.62
	Bill Pmt -Check	02/23/2016	19246	THOMAS, THOMAS R.	Board Member Compensation	1012 · Bank of America Gen'i Ckg	
	Bill	01/26/2016	1/26 Admin Mtg		1/26/16 Administrative Meeting w/PK	6311 · Board Member Compensation	125.00
TOTA	\L						125.00
		00/00/0040	10017	VANDEN HELIVEL BOD	A D I Manushau Campanashi au	4042 Dank of America Carll Clar	
	Bill Pmt -Check	02/23/2016	19247	VANDEN HEUVEL, ROB	Ag Pool Member Compensation	1012 · Bank of America Gen'l Ckg	25.00
	Bill	01/19/2016	1/19 Call Vol Vote		Ag Pool Member Compensation  1/19/16 Conference Call re Volume Votes	8411 · Compensation 8470 · Ag Meeting Attend -Special	100.00
	Bill	04/04/0046	1/21 Advison/Comm		Ag Pool Member Compensation	8411 · Compensation	25.00
	ווומ	01/21/2016	1/21 Advisory Comm		1/21/16 Advisory Committee Meeting	8470 · Ag Meeting Attend -Special	100.00
TOT,	NI.				7217 to havisory committee weeding	OTTO AS MOSTING ARROLD TOPOGICI	250.00
TOTA	<b>\</b> L						200.00

	Туре	Date	Num	Name	Memo	Account	Paid Amount
	Bill Pmt -Check	02/23/2016	19248	VERIZON	012519128144592510	1012 · Bank of America Gen'l Ckg	
	Bill	02/17/2016	012519128144592510		012519128144592510	6022 · Telephone	132.09
TOTAL							132.09
101712	•						102.00
	Bill Pmt -Check	02/23/2016	19249	VERIZON WIRELESS	9759944834	1012 · Bank of America Gen'l Ckg	
	Bill	02/16/2016	9759944834		9759944834	6022 · Telephone	390.37
TOTAL							390.37
	Bill Pmt -Check	02/24/2016	19250	BANK OF AMERICA	XXXX-XXXX-XXXX-9341	1012 · Bank of America Gen'l Ckg	
	Bill	01/31/2016	XXXX-XXXX-XXXX-9341		Purchase book "Scaling Up" for GM	6031.7 · Other Office Supplies	19.04
					Purchase USB wall charger/plug for CFO phone	6031.7 · Other Office Supplies	12.41
					Purchase USB cable for CFO phone	6031.7 · Other Office Supplies	8.63
					Purchase data cable for CFO phone	6031.7 · Other Office Supplies	6.95
					Purchase miscellanous office supplies	6031.7 · Other Office Supplies	95.91
					Purchase copy paper	6031.1 · Copy Paper	127.96
					Purchase shirts w/logo for new field staff	6154 · Uniforms	306.06
					Send legal docs to Stradling Yocca Carlson Rauth	6042 · Postage - General	54.98
7					Purchase vehicle batteries for WM trucks	6177 · Vehicle Repairs & Maintenance	283.47
19					Purchase miscellanous office supplies	6031.7 · Other Office Supplies	60.96
တ					Purchase copy paper	6031.1 · Copy Paper	159,95
					Mail legal filings-from 2/1/16 to board, pool chairs	6042 · Postage - General	147.95
					Purchase Adobe Acrobat upgrade software	6054 · Computer Software	199.00
					Service call: check/adjust boardroom microphones	6024 · Building Repair & Maintenance	250.00
					License for FTP server support & implementation	6054 · Computer Software	1,330.00
					Service call: reset voltage controller in boardroom	6024 · Building Repair & Maintenance	250.00
					PK breakfast for meeting in Sacramento	6191 · Conferences - General	7.90
					Airport parking-PK-attend meeting in Sacramento	6191 · Conferences - General	18.00
					Deposit hold-2/17/16 Vistage Mtg. hosted by PK	6191 · Conferences - General	175.00
					PK meeting w/Ontario - J. Bowman, S. Burton	6312 · Meeting Expenses	59.25
					PK meeting w/B. Kuhn, D. DeJesus	6312 · Meeting Expenses	25.80
					PK meeting w/J. Grindstaff IEUA	8312 · Meeting Expenses	31.16
					Lunch for management between meetings	6141.3 · Admin Meetings	65.08
					PK meeting w/Upland - T. Thomas, R. Hoerning	6312 · Meeting Expenses	51.79
					Photographer-new Board members, Pool Chairs	6147 · Other Admin Expenses	350.00
					Lunch for management for court filing coordination	6141.3 · Admin Meetings	25.88
					PK meeting w/B. DiPrimio	6909.1 · OBMP Meetings	25.47
					RegNakano, Yoo-2/17/2016 AGWA-AGWT Conf.	6193.2 · Conference - Registration Fee	420.00
					RegZapien-2/17/2016 AGWA-AGWT Conference	6193.2 · Conference - Registration Fee	195.00
					Final payment-2/17/16 Vistage mtg. hosted by PK	6191 · Conferences - General	634.18

	Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL	L						5,397.78
	Bill Pmt -Check	02/24/2016	19251	GREAT AMERICA LEASING CORP.	18306494	1012 · Bank of America Gen'l Ckg	
	Bill	02/23/2016	18306494	GREAT AMERICA LEAGING CORF.	Invoice	6043.1 · Ricoh Lease Fee	3,285.29
TOTAI	L						3,285.29
							·
	Bill Pmt -Check	02/24/2016	19252	PRINTING RESOURCES	62890	1012 · Bank of America Gen'l Ckg	
	Bill	02/15/2016	62890		Name badge: A. Truong w/new title	6031.7 · Other Office Supplies	46.22
TOTA	L						46.22
	Dill Dest Charle	00/04/0046	40252	CTANDARD INCURANCE CO	Dalian # 99 040000 0000	1010 Pauls of Associate Coull Olive	
	Bill Pmt -Check	<b>02/24/2016</b> 02/23/2016	<b>19253</b> 006492990009	STANDARD INSURANCE CO.	Policy # 00-649299-0009 Policy # 00-649299-0009	1012 · Bank of America Gen'l Ckg 60191 · Life & Disab.Ins Benefits	741.75
TOTA		02/20/2010	00040200000		1 oney # 00-043233-0003	COTOT LITE & DISABURIS DEFICITS	741.75
							141.10
	Bill Pmt -Check	02/24/2016	19254	STAPLES BUSINESS ADVANTAGE	8038039289	1012 · Bank of America Gen'l Ckg	
	Bill	02/23/2016	8038039289		Miscellaneous office supplies	6031.7 · Other Office Supplies	72.58
TOTA	L						72.58
Ρ1	Bill Pmt -Check	02/24/2016	19255	STATE COMPENSATION INSURANCE FUND	1970970-15	1012 · Bank of America Gen'l Ckg	
7 <b>0</b> TOTA	Bill	03/01/2016	1970970-15		1970970-15	60183 · Worker's Comp Insurance	961.58
IOIA	L						961.58
	Bill Pmt -Check	02/24/2016	19256	UNITED HEALTHCARE	039900535	1012 · Bank of America Gen'l Ckg	
	Bill	02/23/2016	0039900535		Dental Insurance - March 2016	60182.2 · Dental & Vision Ins	833.15
TOTA	L						833.15
	Bill Pmt -Check	02/24/2016	19257	VANDEN HEUVEL, GEOFFREY	Board Member Compensation	1012 · Bank of America Gen'l Ckg	
	Bill	01/14/2016	1/14 Ag Pool Mtg		1/14/2016 Ag Pool Annual Meeting	6311 · Board Member Compensation	125.00
TOTA	.L						125.00
	Bill Pmt -Check	02/24/2016	19258	VERIZON	642013270-00001	1012 · Bank of America Gen'l Ckg	
	Bill	02/23/2016	642073270-00001	VERIZOR	642013270-00001	7103.7 · Grdwtr Qual-Computer Svc	100.04
TOTA						, , , , , , , , , , , , , , , , , , ,	100.04
	General Journal	02/27/2016	02/27/2016	Payroll and Taxes for 02/14/16-02/27/16	Payroll and Taxes for 02/14/16-02/27/16	1012 · Bank of America Gen'l Ckg	
					Direct Deposits for 02/14/16-02/27/16	1012 · Bank of America Gen'l Ckg	19,956.47
					Payroll Checks for 02/14/16 - 02/27/16	1012 · Bank of America Gen'l Ckg	15,830.28
					Payroll Taxes for 02/14/16-02/27/16	1012 · Bank of America Gen'l Ckg	14,602.44
				ICMA-RC	457(f) Employee Deductions for 02/14/16-02/27/16	_	3,934.20
				ICMA-RC	401(a) Employee Deductions for 02/14/16-02/27/10	5 1012 - Dank of America Genti Ckg	1,228.88

Туре	Date	Num	Name	Memo	Account	Paid Amount
TOTAL						55,552.27
General Journal	02/29/2016	02/29/2016	Wage Works FSA Direct Debits - Feb. 2016	Wage Works FSA Direct Debits - Feb. 2016	1012 · Bank of America Gen'l Ckg	
				Wage Works FSA Direct Debits - Feb. 2016	1012 · Bank of America Gen'l Ckg	81.50
				Wage Works FSA Direct Debits - Feb. 2016	1012 · Bank of America Gen'l Ckg	692.14
				Wage Works FSA Direct Debits - Feb. 2016	1012 · Bank of America Gen'i Ckg	692.14
TOTAL						1,465.78
					Total Disbursements:	451,095.11