

**AGENDA
IRVINE RANCH WATER DISTRICT
BOARD OF DIRECTORS
REGULAR MEETING**

April 25, 2016

PLEDGE OF ALLEGIANCE

CALL TO ORDER 5:00 P.M., Board Room, District Office
15600 Sand Canyon Avenue, Irvine, California

ROLL CALL Directors LaMar, Reinhart, Swan, Withers and President Matheis

NOTICE

If you wish to address the Board on any item, including Consent Calendar items, please file your name with the Secretary. Forms are provided on the lobby table. Remarks are limited to five minutes per speaker on each subject. Consent Calendar items will be acted upon by one motion, without discussion, unless a request is made for specific items to be removed from the Calendar for separate action.

COMMUNICATIONS TO THE BOARD

1. A. Written:

 B. Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

 Recommendation: Determine that the need to discuss and/or take immediate action on item(s) introduced come to the attention of the District subsequent to the agenda being posted.

WORKSHOP

Next Resolution No. 2016-6

3. PROPOSED OPERATING BUDGET AND RATES AND CHARGES FOR FISCAL YEAR 2016-17

 Recommendation: That the Board adopt a resolution approving the District's Operating Budget for Fiscal Year 2016-17 and determining compliance with Article XIII B of the California Constitution; and approve the Proposition 218 Notices subject to non-substantive modifications.

Reso No. 2016-

4. FISCAL YEAR 2016-17 CAPITAL BUDGET

 Recommendation: that the Board adopt a resolution approving the District's Capital Budget for Fiscal Year 2016-17

Reso No. 2016-

CONSENT CALENDAR

Next Resolution No. 2016-6

Items 5-9

5. MINUTES OF BOARD MEETING

Recommendation: That the minutes of the April 11, 2016 Regular Board Meeting be approved as presented.

6. RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Mary Aileen Matheis, Douglas Reinhart, Peer Swan, and John Withers as described.

7. IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

Recommendation: Receive and file.

8. MARCH TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap summary for March 2016, and disclosure report of reimbursements to board members and staff; approve the March 2016 summary of payroll ach payments in the total amount of \$1,556,287 and approve the March 2016 accounts payable disbursement summary of warrants 365608 through 366465, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$27,855,901.

9. REIMBURSEMENT AGREEMENT BETWEEN IRWD AND THE CITY OF IRVINE FOR INSTALLATION AND ADJUSTMENT OF IRWD FACILITIES TO GRADE

Recommendation: That the Board authorize the General Manager to execute a Reimbursement Agreement with the City of Irvine for its annual slurry seal and pavement rehabilitation project.

ACTION CALENDAR

10. SERIES 2009-A AND 2009-B BONDS LETTERS OF CREDIT EXTENSION

Recommendation: That the Board approve to extend the US Bank letter of credit supporting the 2009A bonds for 4-1/2 years at an annual cost of 0.41%, approve to extend the Bank of America letter of credit supporting the 2009B bonds for three years at an annual cost of 0.40%; and adopt a resolution authorizing certain actions in connection with extension of letters of credit (Consolidated Series 2009A and Consolidated Series 2009B).

Reso No. 2016-

OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for factual information, request staff to report back at a subsequent meeting concerning any matter, or direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments.

11. A. General Manager's Report

B. Directors' Comments

C. Adjourn

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Irvine Ranch Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection in the District's office, 15600 Sand Canyon Avenue, Irvine, California ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available from the District Secretary of the District Office at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available at the entrance to the Board of Directors Room of the District Office. The Irvine Ranch Water District Board Room is wheelchair accessible. If you require any special disability-related accommodations (e.g., access to an amplified sound system, etc.), please contact the District Secretary at (949) 453-5300 during business hours at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternative format upon written request to the District Secretary at least seventy-two (72) hours prior to the scheduled meeting.

April 25, 2016

Prepared by: Christopher Smithson

Submitted by: Cheryl Clary

Approved Paul Cook

WORKSHOP

PROPOSED OPERATING BUDGET AND RATES AND CHARGES FOR FISCAL YEAR 2016-17

SUMMARY:

The proposed Fiscal Year (FY) 2016-17 Operating Budget for Irvine Ranch Water District is \$146.9 million, representing an increase of \$6.6 million, or 4.7%, when compared with the Operating Budget for FY 2015-16.

Rate increases are necessary to fund anticipated shortfalls in the water and sewer / recycled water systems. In the Irvine Ranch rate area, the proposed adjustment to the low volume and base rates are \$0.10 and \$0.03 per hundred cubic feet (ccf), respectively. In the Los Alisos rate area, the proposed adjustment to the low volume and base rates are \$0.16 and \$0.07 per ccf, respectively. For both rate areas, no change is recommended for the water fixed service charge and the proposed increase to the sewer fixed service charge is \$1.35 per month for the typical residential customer.

Based on the recommended increases, the Irvine Ranch rate area will experience an increase to the average residential customer of \$2.06 or 4.2%, from \$49.04 to \$51.10, per month, and the Los Alisos rate area will experience an overall rate increase to the average residential customer of \$2.64 or 4.6%, from \$57.08 to \$59.72, per month.

Proposition 218 notices are attached as Exhibit "B" and staff is requesting Board approval (subject to non-substantive changes) in order to affect the new rates that will be effective July 1, 2016.

Staff will provide a powerpoint presentation as part of a Board Workshop to lead a more detailed discussion.

BACKGROUND:

The Proposed Operating Budget is attached as Exhibit "A" and includes the following:

- Projected revenues and expenses, along with the resulting net position in each rate area by system; and
- Changes to current rates and charges necessary to meet each operating systems' revenue requirements.

There is one proposed budget personnel change from that presented at the April 11, 2016 Board meeting. The current Engineering Technician I position which was to be downgraded to a Sr. Development Services Specialist in Engineering Department 300 is now proposed to be upgraded to a Development Services Supervisor due to increased staffing needs. The labor

dollars associated with the change is not material and therefore no change is being requested in the proposed FY 2016-17 operating budget dollars.

The proposed Operating Budget has been organized into eight major functional areas, plus separate sections for proposed general plant and labor changes. The proposed budget for FY 2016-17 represents an increase of \$6.6 million over the FY 2015-16 Operating Budget. In addition, staff has budgeted non-operating sources and uses of which the primary drivers are property tax revenues, net income from real estate investments, connection fees paid by developers and interest expense on the District's debt. Total net sources and uses from non-operating sources are estimated to generate an additional net \$59.4 million. Quarterly reporting in FY 2016-17 will include a review of actual versus budget results for operating and non-operating revenue and expenses.

Page 4 of Exhibit "A" identifies the effects of the proposed rate increases for a typical residential customer within the Irvine Ranch and Los Alisos Rate Areas. The details of the tiered rate structure cost allocations were reviewed at the April 14, 2016 Board Workshop.

Attached as Exhibit "B" are the proposed Proposition 218 notices for the Irvine and Los Alisos Rate Areas. The rate impacts to the Irvine Ranch Rate Area is an increase of 4.2% for the average residential customer, as shown on page 4 of Exhibit "A". The rate impacts to the Los Alisos Rate Area is an increase of 4.6% for the average residential customer, as shown on page 4 of Exhibit "A." Staff is recommending that the Board approve the proposed Proposition 218 notices subject to non-substantive changes, whereupon staff will proceed with the mailing of these notices to the District's customer and landowners.

Staff recommends approval of the proposed resolution approving the Operating Budget for FY 2016-17, attached as Exhibit "C". Exhibit "D" is the draft PowerPoint presentation that will be reviewed at the workshop.

Proposed Schedule for the Operating Budget and Rates Adoption:

April 25, 2016	Second Board Workshop to adopt the Proposed Operating Budget; Approval of Proposition 218 Notices for Customers
May 6, 2016	Mail the Proposition 218 Notices to Customers
June 22, 2016	Tabulate Responses
June 27, 2016	Board Meeting- Public hearing to review Proposition 218 responses and adopt Rates and Charges for FY 2016-17

FISCAL IMPACTS:

Planned operating expenses in the FY 2016-17 Proposed Operating Budget reflect an increase of \$6.6 million from the adopted Operating Budget for FY 2015-16.

The proposed rate increases will result in an estimated increase in revenues of \$5.5 million, \$3.0 million and \$0.6 million, respectively, for water, sewer and the recycled systems during FY

2016-17, including the utilization of \$0.9 million from the Replacement Fund (Rate Stabilization Fund) to minimize the increase in rates. It is expected that the proposed budget will result in a contribution to the enhancement and replacement funds of approximately \$3.8 million and \$24.3 million for water, sewer, and the recycled systems, respectively.

COMMITTEE STATUS:

The Committee previously reviewed the Budget and assumptions at its Finance and Personnel Committee meetings on March 1, 2016 and April 5, 2016 and at a Special Finance and Personnel Committee meeting on March 15, 2016.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3, Section 15378.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE APPROVING THE OPERATING BUDGET FOR FISCAL YEAR 2016-17 (WITH RATES AND CHARGES FOR FISCAL YEAR 2016-17 TO BE ADOPTED ON JUNE 27, 2016); AND APPROVE THE PROPOSITION 218 NOTICES SUBJECT TO NON-SUBSTANTIVE MODIFICATIONS.

RESOLUTION NO. 2016 –
RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
ORANGE COUNTY, CALIFORNIA
APPROVING DISTRICT’S OPERATING BUDGET FOR
FISCAL YEAR 2016-17 AND DETERMINING COMPLIANCE WITH
ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION

LIST OF EXHIBITS:

- Exhibit “A” – Proposed Operating Budget Draft for Fiscal Year 2016-17
- Exhibit “B” – Proposed Proposition 218 Notices
- Exhibit “C” – Resolution
- Exhibit “D” – Draft PowerPoint Presentation

Exhibit "A"

**IRVINE RANCH WATER DISTRICT
OPERATING BUDGET
FISCAL YEAR 2016-17**



"PROPOSED"

APRIL 25, 2016



OPERATING BUDGET

*Assumptions as of April 25, 2016
Fiscal Year 2016-17*

The goal of the District's budgeting process remains to fund the resources required to provide services to the District's customers as cost-efficiently as possible. Over the past several years, the District's operating budget has aggressively pursued reductions in expenses to offset uncontrollable expenses such as pass-through rate increases from outside agencies on which the District depends for the purchase of water and the treatment of wastewater and biosolids.

Pass through rate increases account for more than half of the increases in the proposed FY 2016-17 budget. The District's rate setting strategy provides for volume fluctuations in commodity sales without requiring rate increases to make up for the reduced sales. In other words, rate increases are driven by the increases in operational expenses of which over 50% are a direct result of higher pass through expenses and not as a result of reduced commodity sales. With significant additional capital facilities in development in FY 2016-17, the remaining recommended increases in the operating budget reflect additional expenses associated with operating or planning for the operation of those facilities.

This document is a preliminary summary of the major assumptions driving the development of the operating budget for FY 2016-17 for input by Board.

I. REVENUES

Growth Estimates:

Residential development growth includes both apartments and single family homes for FY 2016-17. The unit estimate is based on the most current projections received from the major developers throughout the service area. Current estimates identify approximately 3,700 mixed units coming on line in FY 2016-17. As a result, the growth factor for residential development was estimated at 3.0% for FY 2016-17.

The District experienced an increase in commercial volume which is helping to meet a return of the previously lost revenue due to the economy. Current development projections for the commercial/industrial sector identify 98 acres of development occurring in FY 2016-17 as well as 105 acres developing in the current fiscal year. Staff included a 1% growth rate for commercial and industrial development for FY 2016-17. Revenue assumptions used to estimate sewer revenue match the assumptions included for potable water.

Minimizing the Rate Impact:

The FY 2016-17 budget includes a significant increase in operating expenses and higher pass through costs from outside agencies. As a result, in order to minimize the rate increases, staff has allocated a majority of the projected additional imported water purchases from the over allocation tiers.

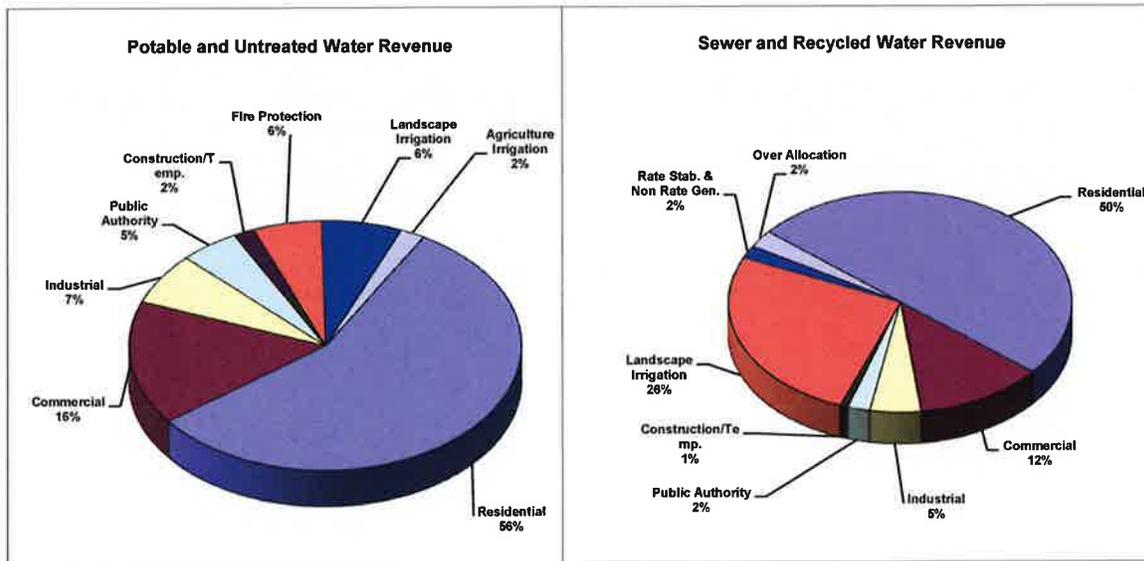


OPERATING BUDGET

*Assumptions as of April 25, 2016
Fiscal Year 2016-17*

FY 2016-17 Estimate for Operating Revenue Sources, by Customer Type (in thousands):

Customer Type	Potable	Sewer	Recycled	Total
Residential	\$ 42,525	\$ 36,347	\$ 1,134	\$ 80,006
Commercial	12,143	8,670	409	21,222
Industrial	5,011	3,569	40	8,620
Public Authority	3,659	1,577		5,236
Construction/Temp.	1,280		557	1,838
Fire Protection	4,263			4,263
Landscape Irrigation	5,006		19,531	24,538
Agriculture Irrigation	1,519		0	1,519
Rate Stab. & Non Rate Gen.		1,071	300	1,371
Over Allocation	10,092		1,929	12,021
Total	\$ 85,499	\$ 51,234	\$ 23,901	\$ 160,634



The projected revenue sources and their respective percentage of the total are presented in the graph above. Total Residential, Landscape, Commercial, and Industrial revenue constitute over approximately 80% of the total operating revenues for both water and sewer.



OPERATING BUDGET

*Assumptions as of April 25, 2016
Fiscal Year 2016-17*

The "Other" category in the chart above includes revenue from the following sources in the order of total estimated receipts:

- Construction/Temporary accounts
- United States Department of the Navy contribution for the Shallow Ground Water Unit identified as Irvine Desalter Project (IDP) Reimbursements
- Recycled water sales to the Santa Margarita Water District
- Green Acres Project (GAP) recycled water sales
- Recycled Water Conversion Loan payments

II. OPERATING EXPENSES

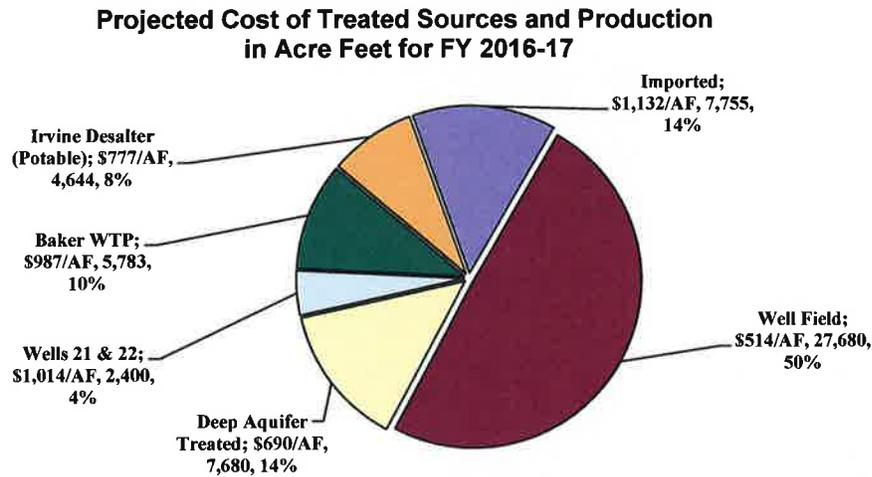
Notable expected changes in operating expenses are addressed below by system and function:

A. Treated Water

The State Water Resources Control Board (SWRCB) extended the restrictions to October 2016. California continues to face a significant drought and District customers have been receiving this messaging from a variety of sources. In addition, the District will continue to make efforts to do its part in encouraging its customers to conserve. The District intends to continue encouraging conservation through its rate structure, which provides an incentive for customers to limit water use to their base allocation. Customers have responded well to this messaging and the SWRCB has reduced the required reduction and, as a result, the District plans to increase its customer allocations slightly.

The FY 2016-17 budget anticipates a slight increase from forecasted usage in FY 2015-16. The District is projecting the potable sales for FY 2016-17 to be 52,504 acre feet (AF), an increase of approximately 2,900 over the prior year forecast.

The sources used to meet potable sales, their respective cost per AF, inclusive of labor, electricity, chemicals, etc., and their respective share of the total water purchased are identified in the graph:





OPERATING BUDGET

Assumptions as of April 25, 2016 Fiscal Year 2016-17

Groundwater Production

The major assumptions associated with the respective sources of water include the following:

- The Replenishment Assessment (RA) in FY 2015-16 was \$322 per AF and the rate used in FY 2016-17 is \$400 per AF, an increase of 24%. The District's basin production percentage (BPP) is set at a maximum of 70%, per the OCWD / IRWD Annexation Agreement executed in 2013.
- The Dyer Road Well Field (DRWF) pumping costs:
 - Actual energy usage will be factored with a rate decrease of 6%.
 - Chemical expense is relatively flat.

Treated Water – Metropolitan Water District (MWD) and Municipal Water District of Orange County (MWDOC)

- MWD is expected to increase its potable rates again on January 1, 2017 by 4%.
- The MWDOC meter surcharge will be applied to all imported purchases equally as part of the variable rate.
- Staff assumes no substantial change to the costs associated with the IRWD Reservoir Management Systems.
- The proposed FY 2016-17 budget assumes the Baker Water Treatment Plant will come on line October 2016. The budget reflects the full cost of operating the plant in the individual line items with the reimbursement to IRWD for 76% of the operating expenses by the Baker Water Treatment Facility partners shown as a "reimbursement from Baker Partners" in the Consolidated Operating Budget for all Departments.
- Los Alisos rate area demands are met almost entirely from the Baker Water Treatment Plant, which uses untreated water purchased from Santiago Aqueduct Commission (SAC) who purchases the water from MWDOC. The untreated rate will increase by 12%. The majority of the remaining demand will be met with MWDOC treated imported water.

Untreated Water

The sources for untreated water for FY 2016-17 will include purchased water.

- MWDOC purchases, Native Water and SAC water is expected to be used to meet all untreated demands.
- Any MWDOC increases discussed above also apply to purchases for the untreated system.

B. Sewer

The Michelson biosolids treatment facility is expected to go online in June 2017 and the FY 2016-17 operating budget includes one month (June) of operational expense. Current biosolids treatment is performed by the Orange County Sanitation District based upon a lease agreement that expires in December 2016. The District is in the process of negotiating a lease extension.



OPERATING BUDGET

Assumptions as of April 25, 2016 Fiscal Year 2016-17

C. Recycled Water

Customer demands for the recycled system decreased significantly from the prior year as customers embrace water conservation. Total recycled sales are estimated at 27,004 AF, a decrease of approximately 5,800 AF from the FY 2015-16 budget. Sources are as follows:

- Production and storage generated from operations at the Michelson Water Recycling Plant (MWRP) and Los Alisos Water Recycling Plant (LAWRP) are expected to provide 22,300 AF.
- The Irvine Desalter will provide 3,540 AF net of water lost through treatment.
- SAC water will provide 264 AF of water.
- The recycled water system is expected to purchase 3,402 acre-feet of supplemental water from the untreated system.

D. Salaries and Benefits

- Each year, staff prepares a labor budget based upon the total positions in the organization chart, expected merit and cost of living increases, and promotional allowances.
 - Each salary is identified and included in January and then projected forward adding merit increases that are based on prior review ratings where necessary in order to reach a starting July salary base.
 - New positions and promotions are added and all salaries are projected forward on a month by month basis.
 - In July, a COLA and promotional factor are applied to all salaries - Assumed at 2.0% and 0.9%, respectively.
 - Although staffing is below the current budget, staff anticipates all positions being occupied by FY 2016-17.

Regular Salaries and Wages	
FY 2015-16	\$29,085
Vacancy Factor	112
New positions	773
Promotions	309
COLA	495
Merit/Other	484
FY 2016-17	\$31,258



OPERATING BUDGET

Assumptions as of April 25, 2016 Fiscal Year 2016-17

The following table identifies the current and proposed contribution of the District toward employee benefits.

Additional Contributions Provided by the District		
	FY 15-16	FY 16-17
PERS Employer Contribution	18.3%	19.3%
PERS in Excess of ARC	<u>6.7%</u>	<u>5.7%</u>
Combined Total	25.0%	25.0%
District Direct 401A Match	0.0%	0.2%
401A Matching Contribution of 3%	2.4%	2.3%

User rates in the FY 2016-17 budget are based on budgeted PERS contributions.

III. USE OF OTHER FUNDS

A. Over Allocation Revenue

Over allocation revenue is used to offset the following expenses:

- o The cost associated with additional imported water purchases;
- o Customers who receive the \$2 low volume capacity rebate on the fixed service charge;
- o Budgeted conservation expenses; and
- o Urban runoff (NTS) and San Joaquin Marsh maintenance expenses.

Total conservation expense is expected to exceed over allocation revenue in FY 2016-17, thereby reducing the conservation fund balance. The conservation fund is projected to be approximately \$10.0 million at the end of FY 2016-17.

B. Enhancement Fund User Rate Component

The current enhancement fund contribution for both the water and sewer system for FY 2015-16 was a combined \$1.52 per month (\$0.70 for water and \$0.82 for sewer) for the average residential customer. It is estimated that the fund balance will be approximately \$20.0 million at the end of FY 2016-17.

C. Replacement Fund User Rate Component

The current replacement sewer service charge of \$10.11 per month for the average residential customer in FY 2015-16 will increase by \$1.30 to \$11.41 to provide additional funding for the biosolids project. A \$0.65 increase was assumed for the water fixed service charge replacement component. It is estimated that the fund balance will be approximately \$200 million as of the end of FY 2016-17.

IV. ALLOCATION OF COSTS BETWEEN IRWD AND LOS ALISOS RATE AREAS

- A. Costs that are directly related to providing service or are clearly associated with the Irvine Ranch or Los Alisos rate areas for treated water are allocated to the respective system expenses of that rate area.



OPERATING BUDGET

Assumptions as of April 25, 2016
Fiscal Year 2016-17

- B. Those costs that are attributable to system operations but that are not unique to one rate area are allocated based upon the ratio of the budgeted acre-feet.
- C. All direct labor costs are allocated General & Administrative (G&A) charges based upon the budgeted G&A factor.

Irvine Ranch Water District
Consolidated Operating Budget for All Departments FY 2016-17

(in thousands)

Expense Category / Name		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Original Budget	2016-17 Proposed Budget	Incr/(Decr)	%
Salaries & Benefits	Regular Labor	\$26,123	\$13,309	\$29,085	\$31,258	\$2,173	7.5%
	Overtime Labor	1,478	864	1,560	1,758	198	12.7%
	Contract Labor	1,902	1,460	1,483	1,347	(136)	-9.2%
	Employee Benefits	7,267	4,010	15,280	16,938	1,658	10.9%
Salaries & Benefits Total		\$36,770	\$19,644	\$47,407	\$51,300	\$3,893	8.2%
Water & Utilities	Water	32,892	14,492	34,975	36,234	1,259	3.6%
	Electricity	13,601	6,358	16,391	14,829	(1,562)	-9.5%
	Fuel	617	161	702	566	(136)	-19.3%
	Telecommunication	489	227	477	502	25	5.1%
	Other Utilities	155	76	156	178	22	13.8%
Water & Utilities Total		\$47,754	\$21,313	\$52,702	\$52,309	(\$393)	-0.7%
Materials & Supplies	Chemicals	2,284	1,123	2,016	3,133	1,118	55.5%
	Operating Supplies	(443)	524	1,391	1,484	93	6.7%
	Printing	182	64	291	265	(26)	-9.0%
	Postage	496	336	518	579	61	11.9%
	Permits, Licenses and Fees	359	612	888	1,219	331	37.3%
	Office Supplies	59	31	113	128	15	13.6%
	Duplicating Equipment	166	100	200	225	25	12.5%
Equipment Rental	92	49	131	129	(2)	-1.6%	
Materials & Supplies Total		\$3,196	\$2,839	\$5,546	\$7,162	\$1,616	29.1%
Professional Services	Rep & Maint OCSD & Others	21,995	7,821	14,189	14,400	211	1.5%
	Rep & Maint IRWD	6,376	3,447	7,582	8,726	1,144	15.1%
	Insurance	583	444	940	1,004	64	6.8%
	Legal Fees	394	215	480	455	(25)	-5.2%
	Engineering Fees	424	176	669	736	67	10.0%
	Accounting Fees	56	63	75	95	20	26.5%
	Data Processing	2,224	1,612	2,663	3,027	364	13.7%
	Personnel Training	654	312	1,093	1,103	10	1.0%
	Personnel Physicals	19	11	43	51	8	18.6%
	Other Professional Fees	1,594	1,354	3,049	4,401	1,352	44.3%
Directors' Fees	137	68	149	156	7	5.0%	
Professional Services Total		\$34,454	\$15,522	\$30,931	\$34,154	\$3,223	10.4%
Other	Mileage Reimbursement	104	50	132	132	0	0.1%
	Collection Fees	7	9	21	21	0	1.0%
	Election Expense	30	15	30	145	115	383.3%
	Safety	59	41	96	83	(13)	-13.8%
	Alarm and Patrol Services	92	62	130	170	40	30.8%
	Biosolids Disposals	140	55	151	374	223	147.2%
	Commuter Program	126	50	142	156	14	9.9%
	Computer Backup Storage	43	13	23	24	1	4.3%
	Contract Meter Reading	1,289	655	1,350	1,350	0	0.0%
	Other	27	6	22	12	(10)	-44.4%
Conservation Rebates	1,415	232	1,694	2,948	1,254	74.0%	
Other Total		\$3,331	\$1,188	\$3,791	\$5,415	\$1,624	42.8%
TOTAL		\$125,505	\$60,506	\$140,378	\$150,341	\$9,963	7.1%
Less: Reimbursement from Baker Partners					(3,408)	(3,408)	
Grand Total		\$125,505	\$60,506	\$140,378	\$146,933	\$6,555	4.7%



REVENUES AND EXPENSES BY SYSTEM

(in thousands)

	<u>Water</u>	<u>Sewer</u>	<u>Recycled</u>	<u>Consolidated</u>
Revenue:				
Commodity	\$ 41,832	\$ -	\$ 15,353	\$ 57,185
Service	33,575	50,683	6,319	90,577
Over Allocation	10,092	-	1,929	12,021
Rate Stabilization	-	551	300	851
Total Revenues	\$ 85,499	\$ 51,234	\$ 23,901	\$ 160,634
Contribution to Enhancement and Replacement Funds	(8,308)	(18,619)	(1,089)	(28,016)
Net Revenues	\$ 77,191	\$ 32,615	\$ 22,812	\$ 132,618
Expenses:				
Cost of Water	\$ 42,719	\$ -	\$ 9,222	\$ 51,941
Operations	10,013	9,961	5,904	25,878
Water Banking	373	-	-	373
OCSD - O&M	-	13,125	-	13,125
<i>Total Direct</i>	<u>53,105</u>	<u>23,086</u>	<u>15,126</u>	<u>91,317</u>
Customer Records and Collections	2,516	839	839	4,194
General & Admin Expense	9,740	7,821	3,452	21,013
<i>Total Indirect</i>	<u>12,256</u>	<u>8,660</u>	<u>4,291</u>	<u>25,207</u>
General Plant	2,111	869	1,566	4,546
Marsh/NTS/Conservation	9,719	-	1,829	11,548
Total Expenses	\$ 77,191	\$ 32,615	\$ 22,812	\$ 132,618
Net Operating Position	\$ -	\$ -	\$ -	\$ -



NON-OPERATING

SUMMARY OF SOURCES AND USES

(in thousands)

	<u>FY 2015-16</u>	<u>FY 2016-17</u>	<u>Incr/(Decr)</u>
Non-operating Revenue:			
Property Taxes	\$43,466	\$47,689	\$4,223
Investment Income	1,642	2,686	1,044
Connection Fees	22,000	22,000	0
Real Estate Income	12,556	12,954	398
Other Income	5,915	6,500	585
Total Revenue	<u>\$85,579</u>	<u>\$91,829</u>	<u>\$6,250</u>
Non-operating Expenses:			
Interest Expense	\$22,056	\$24,606	\$2,550
Real Estate Expense	6,303	6,834	531
Other Expenses	1,174	1,000	(174)
Total Expense	<u>\$29,533</u>	<u>\$32,440</u>	<u>\$2,907</u>
Net Sources & Uses	<u>\$56,046</u>	<u>\$59,389</u>	<u>\$3,343</u>



Current and Proposed Residential Rates

Before Rate Adjustment:	Irvine Ranch		Los Alisos	
	Potable	Wastewater	Potable	Wastewater
Current Residential Rates:	Water (1)	Sewer/ Recycled Water (2)	Water (1)	Sewer/ Recycled Water (2)
Low Volume	\$1.11	\$1.08	\$1.64	\$1.08
Commodity Rate	\$1.62	\$1.37	\$2.39	\$1.37
Residential Service	\$10.30	\$21.85	\$10.30	\$21.85
Operations	\$8.15	\$12.37	\$8.15	\$12.37
Replacements	\$1.45	\$8.66	\$1.45	\$8.66
Enhancements	\$0.70	\$0.82	\$0.70	\$0.82
Total Service Charge	\$10.30	\$21.85	\$10.30	\$21.85
Commodity (12 ccf)	\$16.89		\$24.93	
Current Monthly	\$49.04		\$57.08	
Proposed Residential Rate Adjustment:				
Low Volume	\$1.21	\$1.12	\$1.80	\$1.12
Base Commodity Rate	\$1.65	\$1.46	\$2.46	\$1.46
Operations	\$7.50	\$13.07	\$7.50	\$13.07
Replacements	\$2.10	\$9.31	\$2.10	\$9.31
Enhancements	\$0.70	\$0.82	\$0.70	\$0.82
Total Service Charge	\$10.30	\$23.20	\$10.30	\$23.20
Commodity	\$17.60		\$26.22	
Proposed Monthly	\$51.10		\$59.72	
Current Monthly	\$49.04		\$57.08	
Difference	\$2.06		\$2.64	
Change %	4.2%		4.6%	

- (1) Water - District Average usage assumes 12 ccf's per month.
- (2) Sewer - District average usage assumes 6-10 ccf for lowest 3 months.



REVENUE

BUDGETED REVENUE SUMMARY BY SYSTEM

(in thousands)

	<u>FY 2015-16</u>	<u>Usage Change</u>	<u>Proposed Rate Inc.</u>	<u>FY 2016-17</u>
Water				
Service	\$ 24,494	\$ (977)	\$ -	\$ 23,517
Enhancement	1,788	289		2,077
Replacement	3,836	2,395		6,231
Pumping Surcharge	800	(75)	50	775
Miscellaneous	600	375		975
Commodity	32,113	4,236	5,483	41,832
Over Allocation Revenue/Fund	6,897	3,195		10,092
Rate Stabilization / Non Rate Generated	2,046	(2,046)		
	<u>\$ 72,574</u>	<u>\$ 7,392</u>	<u>\$ 5,533</u>	<u>\$ 85,499</u>
AF Sales	52,276			54,385
User Type				
Residential	\$ 37,241	\$ 2,340	\$ 2,944	\$ 42,525
Commercial	9,668	1,489	986	12,143
Industrial	3,773	720	518	5,011
Public Authority	2,102	1,152	405	3,659
Construction/Temp.	950	285	45	1,280
Fire Protection	3,807	456	0	4,263
Landscape Irrigation	5,131	(561)	437	5,006
Agriculture Irrigation	959	362	198	1,519
Over Allocation Revenue	6,897	3,195		10,092
Rate Stabilization / Non Rate Generated	2,046	(2,046)		0
	<u>\$ 72,574</u>	<u>\$ 7,392</u>	<u>\$ 5,533</u>	<u>\$ 85,499</u>



REVENUE

BUDGETED REVENUE SUMMARY BY SYSTEM

<i>(in thousands)</i>	<u>FY 2015-16</u>	<u>Usage Change</u>	<u>Proposed Rate Inc.</u>	<u>FY 2016-17</u>
Sewer				
Service	\$ 28,245	\$ 1,415	\$ 1,454	\$ 31,114
Enhancement	1,180	59	93	1,332
Replacement	15,592	781	914	17,287
Miscellaneous	611	(181)		430
Reimbursements	520	-		520
Rate Stabilization	-		551	551
	<u>\$ 46,148</u>	<u>\$ 2,074</u>	<u>\$ 3,012</u>	<u>\$ 51,234</u>
 User Type				
Residential	\$ 32,747	\$ 1,833	\$ 1,767	\$ 36,347
Commercial	7,977	264	429	8,670
Industrial	3,401	(16)	184	3,569
Public Authority	1,503	(7)	81	1,577
Reimbursements	520	-	-	520
Rate Stabilization			551	551
	<u>\$ 46,148</u>	<u>\$ 2,074</u>	<u>\$ 3,012</u>	<u>\$ 51,234</u>



REVENUE

BUDGETED REVENUE SUMMARY BY SYSTEM

<i>(in thousands)</i>	<u>FY 2015-16</u>	<u>Usage Change</u>	<u>Proposed Rate Inc.</u>	<u>FY 2016-17</u>
Recycled				
Service	\$ 4,153	\$ 631	\$ -	\$ 4,784
Enhancement	323	18	-	341
Replacement	693	55	-	748
Pumping Surcharge	265	181	-	446
Commodity	16,406	(1,644)	591	15,353
Over Allocation Revenue	4,373	(2,444)	-	1,929
Rate Stabilization	486	(186)	-	300
	<u>\$ 26,699</u>	<u>\$ (3,389)</u>	<u>\$ 591</u>	<u>\$ 23,901</u>
AF	32,810			27,004
User Type				
Residential	\$ 1,151	\$ (48)	\$ 31	\$ 1,134
Commercial	415	(17)	11	409
Industrial	41	(2)	1	40
Public Authority	-	-	-	-
Landscape Irrigation	19,668	(669)	532	19,531
Recycled Loans	-	-	-	-
Agriculture Irrigation	-	-	-	-
Construction/Temp.	565	(23)	15	557
Over Allocation Revenue	4,373	(2,444)	-	1,929
Rate Stabilization	486	(186)	-	300
	<u>\$ 26,699</u>	<u>\$ (3,389)</u>	<u>\$ 591</u>	<u>\$ 23,901</u>



COST OF WATER

BUDGETED COST OF WATER

	FY 2015-16			FY 2016-17			Change	
	Acre Feet	Total	Cost / AF	Acre Feet	Total	Cost / AF	Acre Feet	Total
<i>(in thousands)</i>								
Irvine Ranch Rate Area								
<u>TREATED</u>								
Purchased from MWDOC	5,988	\$ 7,130	\$1,191	5,955	\$ 6,744	\$1,132	(33)	\$ (386)
Dyer Road Well Field	28,000	13,079	\$467	27,680	14,238	\$514	(320)	1,159
Other Wells	900	366	\$0	650	402	\$618	(250)	36
Deep Aquifer Treatment System	8,000	4,707	\$588	7,680	5,301	\$690	(320)	594
Lost to Production	(160)			(154)			6	
Wells 21 & 22 Desalter	0	520	\$0	2,400	2,432	\$1,014	2,400	1,912
Lost to Production	0			(360)			(360)	
Irvine Desalter Project	2,890	2,150	\$744	4,644	3,611	\$777	1,754	1,461
Lost to Production	(434)			(697)			(263)	
<i>Total Shrinkage</i>	(1,855)			(2,498)			(643)	
Total Irvine Ranch Potable	43,329	\$ 27,952		45,300	\$ 32,728		1,971	\$ 4,776
<u>UNTREATED</u>								
Purchased from MWDOC	11,637	\$ 7,939	\$682	4,103	\$ 3,183	\$776	(7,534)	\$ (4,756)
Native Water	400	85	\$212	1,000	212	\$212	600	127
Santiago Aqueduct Commission	180	111	\$617	264	212	\$803	84	101
Transfer to RW System	(9,404)	(6,261)	\$666	(3,402)	(2,286)	\$672	6,002	3,975
<i>Total Shrinkage</i>	(128)			(84)			44	
Total Untreated	2,685	\$ 1,874		1,881	\$ 1,321		(804)	\$ (553)
Los Alisos Rate Area								
Purchased from MWDOC	6,141	\$ 6,432	\$1,047	1,800	\$ 2,002	\$1,112	(4,341)	\$ (4,430)
Baker WTP				5,783	\$ 5,710	\$987	5,783	5,710
Well Water	432	32	\$74	432	0	\$0	-	(32)
<i>Total Shrinkage</i>	(312)			(811)			(499)	
Total Los Alisos	6,261	\$ 6,464		7,204	\$ 7,712		943	\$ 1,248
Total Potable and Untreated Water	52,275	\$ 36,290		54,385	\$ 41,761		2,110	\$ 5,471

Assumptions:

OCWD - replenishment assessment estimate - \$400/acre foot.

MWDOC - Includes identified increases that will be effective January 1, 2017 from MWD.



COST OF WATER

BUDGETED COST OF RECYCLED WATER

<i>(in thousands)</i>	FY 2015-16			FY 2016-17			Change	
	Acre Feet	Total	Cost / AF	Acre Feet	Total	Cost / AF	Acre Feet	Total
Groundwater	0	\$ -	\$ -	-	\$ -	\$ -	-	\$ -
Irvine Desalter Project	2,900	1,836	\$633	4,165	2,724	\$654	1,265	888
Lost to Production	(435)			(625)			(190)	
SAC Water	282	174	\$617	0	0	\$0	(282)	(174)
MWRP / LAW RP Production	22,300	10,480	\$470	22,300	4,983	\$223	-	(5,497)
Transfer from Untreated System	9,404	6,261	\$666	3,402	2,286	\$672	(6,002)	(3,975)
<i>Total Shrinkage</i>	<u>(1,641)</u>			<u>(2,238)</u>			<u>(597)</u>	
Total Recycled	<u>32,810</u>	<u>\$ 18,751</u>		<u>27,004</u>	<u>\$ 9,993</u>		<u>(5,806)</u>	<u>\$ (8,758)</u>
Total Cost of Water for Billed Usage	<u>85,085</u>	<u>\$ 55,041</u>		<u>81,389</u>	<u>\$ 51,754</u>		<u>(3,696)</u>	<u>\$ (3,287)</u>

Assumptions:

OCWD - replenishment assessment estimate - \$400/acre foot.

MWDOC - Includes identified increases that will be effective January 1, 2017 from MWD.



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

Program Description

The General Manager's Office implements the policies established and direction provided by the Board of Directors and, in so doing, provides overall direction to staff to complete that effort. The office also includes Government Relations which develops and advocates for policies at the federal, state and local levels that promote a reliable high quality and cost effective water supply for IRWD customers, and demonstrates the efficient use of resources. The Government Relations staff provides policy leadership and technical expertise to the legislative process, particularly on issues of water recycling, water use efficiency, water supply reliability and governance, among others.

The General Manager's office also:

- Provides direct services to and communications with the Board of Directors;
- Produces and distributes Board, Board Committee and Ad Hoc Committee meeting packets;
- Schedules all Board, Board Committee, Ad Hoc Committee and annual/special independent corporation meetings;
- Produces the minutes of all Board meetings;
- Maintains all Board resolutions;
- Schedules other meetings and functions on behalf of the Board members and makes travel arrangements, as needed;
- Maintains records of all inter-agency agreements, deeds and easements;
- Maintains records for the various independent corporations;
- Maintains necessary inter-governmental relations;
- Responds to, or directs response to, all media inquiries; and,
- Responds to all public information requests.

The General Manager's Office works with the Board of Directors and staff to establish the District's strategic vision for all departments. On November 6, 2015, staff reviewed the 2015 Goals and Target Activities with the Board. The Goals and Target Activities described below reflect the *Strategic Objectives*, as well as the *Mission, Vision and Values* of Irvine Ranch Water District as adopted by the Board. The Goals (numbered) and the Target Activities (lettered) for 2016 are summarized as follows:

Major Goals

1. Optimize and protect local water supply utilization
 - a. Implement near-term recommendations from 2014 Groundwater Work Plan
 - b. Complete construction and commissioning of Baker Water Treatment Plant
 - c. Complete updated potable water supply reliability study
 - d. Complete Urban Water Management Plan



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

- e. Select preferred alternative and begin feasibility study to replace or repair Irvine Lake Outlet Tower
 - f. Coordinate with OCWD on South Basin Clean-up Project
 - g. Provide advocacy and support for Metropolitan's Carson Regional IPR program
2. Minimize discharge of recyclable water to the ocean
- a. Complete design and construction of Irvine Lake Pipeline North Conversion
 - b. Convert a minimum of 1,000 AF of potable water use to recycled water
 - c. Include IRWD's recycled water demands in OCWD's total water demand calculations
 - d. Update Sewage Collections System Master Plan
 - e. Update Sewage Treatment Master Plan, including consideration of IBC flows
 - f. Complete the Salt Management Plan – Phase 2
 - g. Perform CEQA, alternatives analysis and preliminary design for the Syphon Reservoir Expansion
 - h. Explore local IPR/aquifer storage opportunities
 - i. Evaluate putting SGU and other brine flows into the recycled water system
 - j. Complete Local Limits Study
3. Bank 90,000 AF of water for IRWD, develop 70 cfs of extraction and additional recharge and storage capacity as needed for IRWD and water banking partners
- a. Certify EIR for Stockdale Integrated Banking Project
 - b. Execute long-term unbalanced exchange agreements for Stockdale
 - c. Execute long-term exchange agreements to facilitate exports of Kern River water
 - d. Investigate land fallowing and water transfer opportunities
 - e. Construct Stockdale recovery facilities
 - f. Construct Drought Relief Project recovery and conveyance facilities
 - g. Secure additional land for recharge and recovery facilities
4. Maximize resource recovery from fully functional biosolids and resource recovery facility
- a. Biosolids Facilities operational
 - b. Complete marketing plan for beneficial use(s) of pellets
 - c. Develop partnerships with other agencies to utilize surplus capacity
 - d. Evaluate FOG implementation and incorporate industrial pre-treatment
 - e. Negotiate extension and revision of July 2003 agreement with OCSD
5. Improve electric service reliability, manage demands and control costs
- a. Develop program to maximize generation of renewable energy through food waste and fats oils and grease
 - b. Implement recommendations from Embedded Energy Program
 - c. Participate in SCE's Direct Access Program
 - d. Pursue cost effective and proven energy storage programs through participation in Self Generation Incentive Program (SGIP)
 - e. Maximize participation in and returns from the Preferred Resource Pilot Program



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

- f. Explore financial models for financing, construction and operation of renewable and storage projects
 - g. Collaborate on the development of micro-grid technologies through a partnership with UCI
6. Maximize urban water treatment and watershed protection
- a. Construct Peters Canyon Channel Water Capture and Reuse Pipeline
 - b. Explore potential conversion of some NTS sites to infiltrate dry weather flows or divert into sewer
 - c. Facilitate discussions with the County of Orange to identify facilities for potential storm water detention / retention to control bank erosion
 - d. Explore diverting MWRP groundwater dewatering flows into MWRP
 - e. Identify alternative sources for Marsh to mitigate for potential loss of flows due to Peters Canyon Channel Water Capture and Reuse Project
7. Develop and implement asset management programs
- a. Complete the Pre-Implementation Phase of the management of the District's operating assets
 - b. Complete the Implementation Phase of the management of the District's operating assets
 - c. Resolve outstanding deed, access and other contractual restrictions related to real property
8. Ensure financial and rate stability
- a. Develop plan to invest revenue generated by the Lake Forest property; establish rate parity for IRWD Lake Forest customers
 - b. Update the Replacement Planning Model
 - c. Complete development and leasing on remaining Sand Canyon campus and other facilities
 - d. Complete financing plan to support the District's major capital projects
 - e. Develop a Cost of Service Study for the IRWD sewer system that includes the Biosolids Project operating
9. Enhance customer satisfaction and communication
- a. Enhance customer satisfaction through an improved customer web access portal
 - b. Develop and implement next phase of customer drought outreach program
 - c. Develop and implement tap water outreach campaign
 - d. Expand the RightScape program for regional use and benefit
 - e. Redesign customer bill to improve customer satisfaction
10. Maximize water use efficiency in the community
- a. Update Water Supply Contingency Plan
 - b. Evaluate water use efficiency programs and Water Use Efficiency Plan
 - c. Develop guide for implementing budget-based rate structures
 - d. Review current approach to water loss management, best practices, and compliance with new regulations



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

11. Recruit, develop and retain a highly skilled and educated work force
 - a. Implement new performance evaluation process
 - b. Develop and implement staff mentoring program
 - c. Develop and implement District Cross Training Program and Job Rotation Program
 - d. Develop a certification and training database and two-year staff training plan based on the needs of the District
 - e. Form and implement a Steering Committee to plan for succession and knowledge transfer
 - f. Evaluate alternatives for standby/first responders
 - g. Evaluate employee space planning alternatives
12. Identify, assess and implement new technologies
 - a. Implement the Operations Database Management System
 - b. Simplify and optimize financial module to incorporate new ID structure and project management
 - c. Conduct IT-related existing/new technology opportunity assessment
 - d. Implement Process Development Steering Committee to identify operational process improvements and explore new technologies
13. Guide and lead local, state and federal policies and legislation
 - a. Provide input to the State Water Resources Control Board in extending State-wide drought regulations
 - b. Participate in the development of Statewide surface and groundwater storage policies associated with Water Bond Funding
 - c. Seek legislative or regulatory changes promoting recycled water storage
 - d. Provide input to the legislature and administration on developing water markets in California
 - e. Promote policies which encourage energy reliability and efficiency in the water industry
 - f. Promote a "fit for purpose" approach to regulation of recycled water
 - g. Promote policies and regulations that will improve air quality and allow efficient operation of District facilities
14. Increase collaboration with other agencies and entities through leadership and innovation
 - a. Develop Orange County Groundwater Basin conjunctive use and exchange policy
 - b. Conduct planning level evaluation of potential IRWD and South County shared reliability projects
 - c. Actively participate in the Orange County Water Supply Reliability Study
 - d. Lead the Groundwater Producers in the evaluation of Ocean Desalination Projects
 - e. Evaluate and promote opportunities for shared services
 - f. Propose to provide sewer services to OCSD's Service Area 7
 - g. Participate as leaders in industry associations
 - h. Advocate for regional IPR and DPR projects
 - i. Evaluate third-party billing opportunity for UCI
15. Evaluate opportunities that enhance safety and emergency preparedness throughout the District
 - a. Implement facility security assessment



GENERAL MANAGER'S OFFICE

OPERATING BUDGET SUMMARY

- b. Develop plan and design improvements to eliminate the use of chlorine gas at District facilities
- c. Implement intranet based interactive safety training where appropriate
- d. Develop emergency preparation/readiness program

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Administration		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
110	Regular Labor	558,472	346,928	568,100	730,950	162,850
110	Overtime Labor	113	269	1,000	1,000	0
110	Contract Labor	11,556	2,334	0	0	0
110	Operating Supplies	120	22	0	0	0
110	Printing	1,597	2,983	25,000	10,000	(15,000)
110	Postage	30	30	100	100	0
110	Permits, Licenses and Fees	84,261	80,224	89,000	84,500	(4,500)
110	Office Supplies	4,423	1,657	4,000	4,000	0
110	Legal Fees	333,294	159,059	385,000	360,000	(25,000)
110	Personnel Training	245,169	142,697	250,000	257,000	7,000
110	Other Professional Fees	169,810	126,959	225,000	668,050	443,050
110	Directors' Fees	136,523	68,448	148,600	156,000	7,400
110	Election Expense	30,000	15,000	30,000	145,000	115,000
Total	General Managers Office	1,575,368	946,610	1,725,800	2,416,600	690,800



SAFETY AND SECURITY OPERATING SUMMARY

Program Description

The Safety and Security program provides necessary resources to promote a safe work environment for employees through mandated and pro-active training and education and to ensure the security of all District property and facilities.

With a commitment to provide on-going employee training to facilitate safe job performance and effective security programs to ensure property and facility protection, the Safety and Security function continually monitors and stays abreast of current and pending changes and improvements for safe work practices and security measures in the water industry. Appropriate policies are regularly developed or revised to ensure the constant pursuit and maintenance of a safe and secure operational environment, in compliance with all applicable laws and regulations.

Through the use of safety awareness programs, the Safety and Security function works to increase employee involvement at all organizational levels via All Hands Meetings, Tailgate Safety Meetings, classroom and on-site training sessions, workplace evaluations, industrial hygiene evaluations and employee Safety Committee meetings.

The Safety & Security program administers the Commuter Trip Reduction (Ridesharing) program, coordinates emergency preparedness and disaster response operations and oversees the maintenance and administration of the Emergency Operations Center.

Major Goals

- Develop emergency preparedness/readiness program;
- Provide disaster response training for District staff;
- Develop implementation plan for facility security assessment recommendations;
- Implement on-line web-based interactive safety training programs; and
- Conduct Safety Training and Personal Protective Equipment Assessment for all District job classifications.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Administration		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
130	Regular Labor	151,459	97,519	194,700	244,800	50,100
130	Overtime Labor	1,580	598	0	1,500	1,500
130	Contract Labor	41,547	18,756	48,000	0	(48,000)
130	Operating Supplies	67,667	26,972	88,500	70,500	(18,000)
130	Printing	0	0	8,400	9,300	900
130	Postage	0	0	400	0	(400)
130	Permits, Licenses and Fees	20,985	24,220	40,000	40,000	0
130	Office Supplies	867	1,575	2,200	40,000	37,800
130	Rep & Maint IRWD	0	8,987	5,000	0	(5,000)
130	Insurance	0	700	0	0	0
130	Personnel Training	18,171	35,400	79,900	114,000	34,100
130	Personnel Physicals	7,434	6,008	28,000	36,000	8,000
130	Other Professional Fees	14,131	45	31,000	125,000	94,000
130	Safety	31,392	31,712	50,000	25,000	(25,000)
130	Other	231,654	116,465	281,600	326,000	44,400
Total Safety and Security		586,887	368,957	857,700	1,032,100	174,400



HUMAN RESOURCES

OPERATING BUDGET SUMMARY

Program Description

The Human Resources function provides comprehensive organizational development and personnel management services to maximize the potential of the District's human resources and overall employee efficiency, effectiveness and satisfaction. The Human Resources program is responsible for attracting and recruiting a highly qualified work force and working in concert with the organization leadership to develop and sustain a motivated productive workforce.

Human Resources ensures the delivery of a competitive compensation and benefits package; continuous improvement through employee training; fair and consistent employee policies, procedures and guidelines; and an ongoing employee reward and recognition program tied to the achievement of stated goals and objectives. Human Resources is responsible for the employee relations and labor relations processes and facilitates communication and trust with staff through collaboration and the open exchange of ideas.

Major Goals

- Recruit, develop and retain a highly skilled and educated workforce;
- Implement improvements to the performance evaluation process;
- Collaborate with staff committee to expand succession planning programs such as mentoring, cross training and leadership training;
- Develop a certification and training database management system;
- Evaluate alternatives for standby/first responders; and
- Evaluate employee space planning alternatives.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Administration		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
140	Regular Labor	557,789	287,278	627,200	649,880	22,680
140	Overtime Labor	1,508	1,697	5,000	5,000	0
140	Employee Benefits	7,266,938	4,009,837	15,279,500	16,937,520	1,658,020
140	Contract Labor	0	0	2,500	2,500	0
140	Operating Supplies	1	0	0	0	0
140	Printing	1,758	2,010	2,500	0	(2,500)
140	Postage	0	29	0	100	100
140	Office Supplies	224	641	2,500	2,500	0
140	Rep & Maint IRWD	0	0	100	1,000	900
140	Legal Fees	60,689	55,775	95,000	95,000	0
140	Personnel Training	234,076	67,893	397,700	370,800	(26,900)
140	Personnel Physicals	11,509	4,611	15,000	15,000	0
140	Other Professional Fees	58,426	30,566	107,500	134,500	27,000
140	Other	1,150	0	0	0	0
Total	Human Resources	8,194,068	4,460,337	16,534,500	18,213,800	1,679,300
Total	Administration	10,356,323	5,775,904	19,118,000	21,662,500	2,544,500



FINANCE, TREASURY AND PROCUREMENT

OPERATING BUDGET SUMMARY

Program Description

The Finance Department is responsible for ensuring the financial and rate stability of the District. This includes developing rates and fees that support the long term sustainability of the District. Finance maintains the official accounting records of the Irvine Ranch Water District and provides financial management of the District's income and real estate investments, new and existing debt issues, and deferred compensation programs. The department provides a wide range of accounting and financial services including payroll, accounts payable, accounts receivable, project accounting, financial analysis, financial reporting, coordination of the District's annual operating budget and preparation of the Comprehensive Annual Financial Report (CAFR). The Finance Department also oversees risk management claims and insurance issues.

The mission of the Finance Department is to safeguard assets and provide financial and accounting services in a timely, reliable, and cost-effective manner that meet the requirements of the District's internal and external customers.

Major Goals

ACCOUNTING AND BUDGETING

- Prepare and submit accurate financial reports and relevant tax returns to federal, state, county and district agencies within established legal deadlines and requirements;
- Prepare and submit accurate and timely financial reports to the Finance and Personnel Committee and the District's Board of Directors;
- Coordinate the District's annual financial statement audit;
- Prepare the annual CAFR;
- Prepare the Operating Budget for Board of Director approval including setting adequate rates to ensure long term financial strength and stability;
- Ensure user rates are proportional with costs and support the current rate structure;
- Lead customer noticing effort for Proposition 218 compliance (operating budget, rates and charges);
- Ensure all payments and payroll checks are accurate and timely;
- Simplify the District-wide Financial System, including incorporating the recent improvement district consolidations and improved project reporting capabilities; and,
- Identify and implement business intelligence capabilities.

LONG-TERM FINANCIAL PLANNING

- Continue to refine and update the cash flow strategic model to ensure sufficient funding for future capital needs;
- Provide analytical support and analysis to Finance, other departments and outside constituents as requested; and



FINANCE, TREASURY AND PROCUREMENT

OPERATING BUDGET SUMMARY

- Explore financial models for financing, construction and operation of renewable and storage projects.

INVESTMENTS AND CASH MANAGEMENT

- Invest District funds in a prudent and professional manner that will provide maximum security of principal, sufficient liquidity to meet working capital requirements and an optimal rate of return;
- Prepare accurate investment reports and the annual investment policy to the Board of Directors and other interested parties within established time frames; and,
- Maintain and enhance short and long-term cash flow models and cash management practices.

REAL ESTATE

- Monitor and report on the performance of all real estate investment assets;
- Manage leasing and related property management activities for all District commercial and residential real estate investments;
- Complete environmental and final map approval process for property located in Lake Forest;
- Complete development of the Sand Canyon office project in Irvine as market conditions warrant; and
- Resolve outstanding deed, access and other contractual restrictions related to real property.

DEBT ISSUANCE AND ADMINISTRATION

- Issue long-term debt to fund capital projects as needed, and evaluate and recommend refunding opportunities for current District debt issues when appropriate;
- Prepare and submit required continuing disclosure materials for District debt issues to appropriate parties;
- Monitor variable interest rates set by remarketing agents on District debt and make adjustments as appropriate; and,
- Execute, monitor and report on interest rate swap transactions as appropriate.

INSURANCE

- Ensure the District has adequate insurance to appropriately safeguard assets; and,
- Manage claims process and coordinate legal matters in a timely manner.

PENSION

- Maintain and invest Pension Benefits Trust assets and report portfolio performance and recommendations to the Retirement Board;
- Evaluate and monitor Trust Advisor performance; recommend changes in advisory services as appropriate; and,
- Review additional opportunities to optimize Pension Benefits Trust performance.

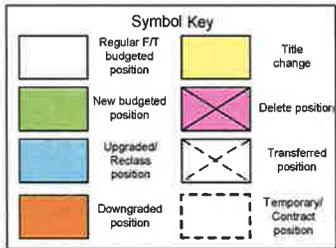


FINANCE, TREASURY AND PROCUREMENT

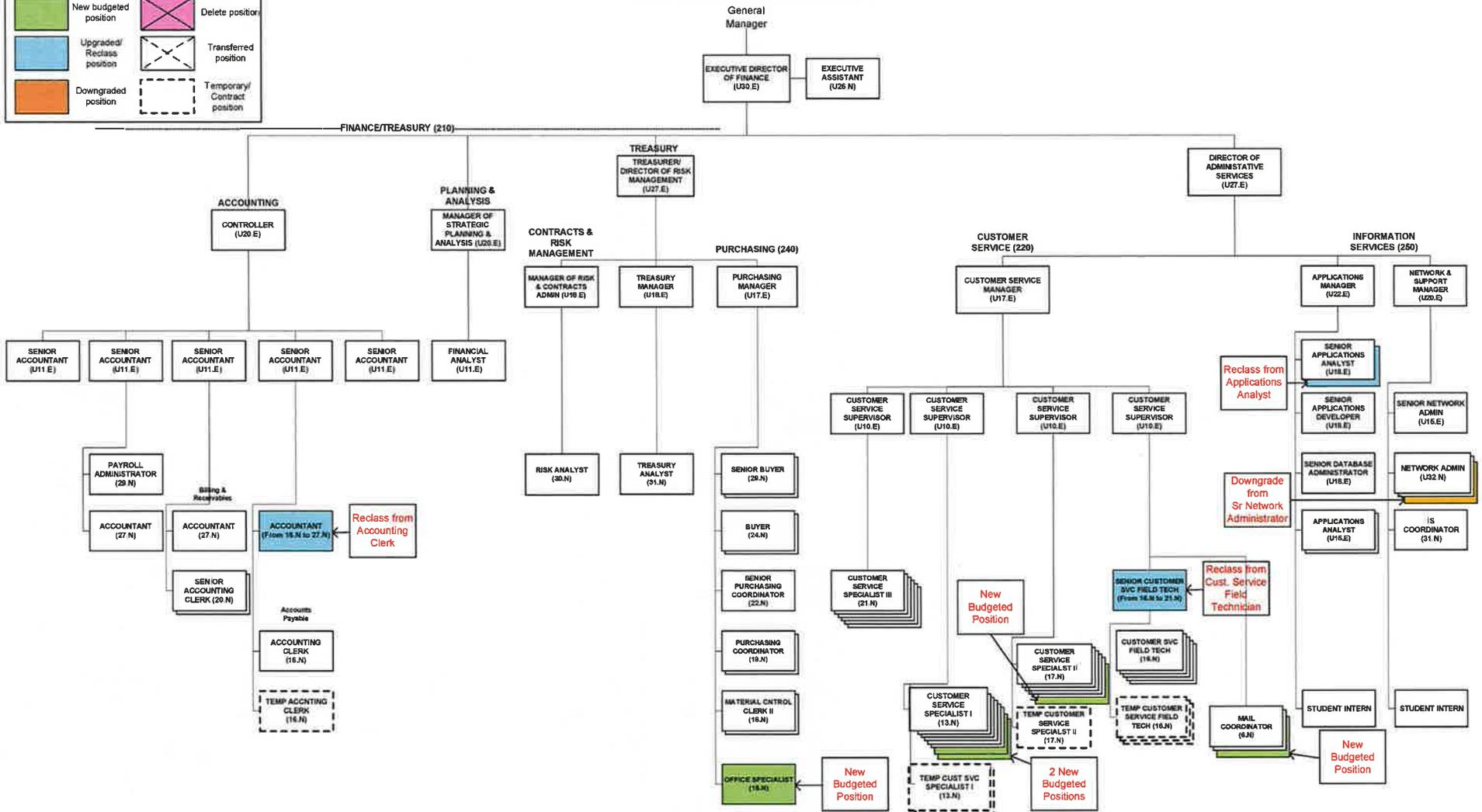
OPERATING BUDGET SUMMARY

PROCUREMENT

- Purchase materials, supplies and services in a timely manner with appropriate consideration given to quality and best pricing;
- Process all material/service requests timely and efficiently;
- Maintain warehouse inventory fill rate at 100% and review/adjust slow moving inventory;
- Streamline business procurement processes and documentation while ensuring appropriate controls;
- Provide ongoing customer support for procurement and inventory systems; and,
- Evaluate and expand participation in cooperative purchasing agreements as appropriate.



**IRVINE RANCH WATER DISTRICT
FINANCE AND ADMINISTRATION
PROPOSED FISCAL YEAR 2016-17**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Finance & Administrative Services		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
210	Regular Labor	2,248,349	988,954	2,184,600	2,237,200	52,600
210	Overtime Labor	7,892	21,732	18,000	18,000	0
210	Contract Labor	23,885	56,650	176,400	165,800	(10,600)
210	Operating Supplies	967	266	500	700	200
210	Printing	68,504	0	60,000	70,000	10,000
210	Postage	8,382	4,165	8,000	8,000	0
210	Permits, Licenses and Fees	0	0	3,000	3,000	0
210	Office Supplies	5,200	3,271	5,000	5,000	0
210	Insurance	583,010	442,900	939,900	1,003,900	64,000
210	Accounting Fees	55,705	63,124	75,100	95,000	19,900
210	Data Processing	73,846	24,930	48,900	51,000	2,100
210	Personnel Training	24,374	10,990	42,000	27,500	(14,500)
210	Other Professional Fees	426,445	119,436	317,200	305,700	(11,500)
210	Mileage Reimbursement	55	68	0	100	100
210	Collection Fees	5,791	7,983	20,000	20,000	0
Total Finance and Treasury		3,532,405	1,744,469	3,898,600	4,010,900	112,300

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Finance & Administrative Services		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
240	Regular Labor	706,747	351,736	685,000	787,600	102,600
240	Overtime Labor	11,012	3,143	4,000	4,000	0
240	Contract Labor	8,505	17,939	53,000	0	(53,000)
240	Operating Supplies	(1,583,260)	(175,206)	146,500	162,000	15,500
240	Printing	11,243	2,157	11,500	11,500	0
240	Postage	3,957	2,301	4,500	4,500	0
240	Office Supplies	18,763	7,387	24,000	24,000	0
240	Duplicating Equipment	166,093	99,666	200,000	225,000	25,000
240	Equipment Rental	20,039	4,783	20,000	20,000	0
240	Rep & Maint IRWD	183	0	0	0	0
240	Personnel Training	5,138	1,006	6,500	6,500	0
240	Other Professional Fees	4,076	230	2,000	2,000	0
Total	Purchasing	(627,504)	315,142	1,157,000	1,247,100	90,100



ADMINISTRATIVE SERVICES

OPERATING BUDGET SUMMARY

Program Description

The Administrative Services group provides a wide range of support services that include Customer Service and Information Services.

The mission of the Customer Service Department is to provide the highest level of customer satisfaction by providing reliable, courteous and efficient service. The Customer Service Department provides utility billing, account support and mail distribution services.

The mission of the Information Services Department is to research, develop, integrate and support reliable, cost effective information systems that meet the current and future business requirements of customers and provide a high level of customer satisfaction. The Information Services Department provides implementation, management and support for the District's information systems, voice and data communications systems.

Major Goals

CUSTOMER SERVICE

- Deliver exceptional customer service both internally and externally;
- Review and resolve billing inquiries and adjustments in a timely manner including education of customers on allocation;
- Receive and process all orders for new service and discontinuation of service;
- Process new meter applications;
- Process payments for temporary construction meters, fire flow tests, and customer water bills;
- Coordinate and process all meter reads to ensure accurate billing;
- Process variance requests for additional water allocations;
- Respond to field problems (leaks, no water complaints, high/low pressure, water quality, sewer problems, line breaks, etc.) with a sense of urgency;
- Manage delinquent customer accounts and perform shut-offs as required;
- Distribute customer satisfaction surveys and maintain 90% customer satisfaction; and,
- Receive, route and deliver all District mail, and process all outgoing mail.



ADMINISTRATIVE SERVICES

OPERATING BUDGET SUMMARY

INFORMATION SERVICES

- Provide helpful, courteous and timely support to all District staff;
- Provide internal and external software training that meets the needs of District staff;
- Provide a reliable network of servers, personal computers, printers and software applications that meet the needs of District staff;
- Provide reliable voice, data and wireless communications services;
- Develop new and improved existing software applications to meet the requirements of District staff;
- Complete scheduled hardware and software upgrades to District servers, personal computers, tablets, printers, network equipment and software applications;
- Complete the Technology Opportunity Assessment
- Begin implementation of projects identified and prioritized from the Technology Opportunity Assessment;
- Complete implementation of the Water Information Management System (WIMS);
- Complete implementation of the Oracle EBS Upgrade, Improvement District Consolidation and Project Management module;
- Complete the implementation of the Water Bill Redesign; and,
- Begin implementation of the Enterprise Asset Management System (EAM).

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Finance & Administrative Services		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
220	Regular Labor	1,532,656	785,408	1,773,700	1,972,880	199,180
220	Overtime Labor	64,986	36,660	60,000	60,000	0
220	Contract Labor	560,656	251,906	290,600	228,820	(61,780)
220	Operating Supplies	3,950	1,402	1,000	1,000	0
220	Printing	71,992	35,107	77,000	77,000	0
220	Postage	477,834	325,769	490,300	555,500	65,200
220	Office Supplies	5,487	2,837	5,500	5,500	0
220	Equipment Rental	41,091	31,085	40,000	42,500	2,500
220	Personnel Training	1,128	727	8,000	8,000	0
220	Other Professional Fees	816	2,668	1,500	2,000	500
220	Collection Fees	927	543	800	1,000	200
220	Other	1,289,432	655,229	1,350,000	1,350,000	0
Total	Customer Service	4,050,955	2,129,341	4,098,400	4,304,200	205,800

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Finance & Administrative Services		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
250	Regular Labor	1,173,730	510,230	1,358,900	1,442,100	83,200
250	Overtime Labor	29,044	20,315	15,000	30,000	15,000
250	Contract Labor	688,861	456,320	429,000	255,000	(174,000)
250	Telecommunication	423,513	190,091	421,500	433,000	11,500
250	Other Utilities	8,016	7,566	9,500	9,500	0
250	Operating Supplies	2	13	0	0	0
250	Printing	9,337	3,871	12,000	5,000	(7,000)
250	Postage	50	124	500	500	0
250	Office Supplies	0	0	1,000	1,000	0
250	Rep & Maint IRWD	207,264	163,928	273,800	292,500	18,700
250	Data Processing	2,149,784	1,586,978	2,614,000	2,976,200	362,200
250	Personnel Training	9,027	264	35,800	35,800	0
250	Other Professional Fees	5,857	666	60,000	60,000	0
250	Mileage Reimbursement	7	29	0	0	0
250	Other	21,905	13,465	23,000	24,000	1,000
Total Information Services		4,726,397	2,953,860	5,254,000	5,564,600	310,600
Total Finance & Administrative Services		11,682,253	7,142,812	14,408,000	15,126,800	718,800



ENGINEERING

OPERATING BUDGET SUMMARY

Program Description

The Engineering Department provides planning, design and construction coordination to develop the water, sewage and recycled water facilities necessary to provide the highest level of service to the customers of the District. The Engineering Department also provides technical support to other District departments.

Planning: The Planning and Technical Services group of the Department is responsible for all master planning, water, sewage and recycled water demand projections, water supply planning, preliminary facility planning studies for new facilities, and preparation of the District's annual and long-term Capital Programs. The Planning group provides GIS services to other District departments including the development and support of GIS based applications and facility and atlas maps, maintenance of the District's digital record drawings plan system, and GIS based analysis. The Planning group is also responsible for managing the District's real property and rights of way.

Capital Projects: The Capital Projects group designs and manages construction of major water, sewage and recycled water treatment, distribution and transmission facilities necessary to provide the quality and reliability of service to existing and future customers of the District. The Capital Projects group is responsible for the expansion and improvement of water and sewage treatment facilities; the design and construction of wells, pipelines, storage facilities, pump stations, and sewage lift stations; and the design and construction of integration facilities for areas acquired through agency consolidations.

Development Services: The Development Services group facilitates the land development process within the District by designing and bidding the water, sewage and recycled water facilities necessary to support land development. The construction of these facilities is coordinated to ensure that the facilities are available to meet development schedule requirements. Temporary and interim facilities, when necessary, are also coordinated through this group. The Development Services group also reviews developer submittals for quality and conformance with District requirements and assesses and collects appropriate fees.

Inspection Services: The Inspection Services group provides construction inspection services to other groups of the Engineering Department to ensure the highest level of constructed quality. These services include constructability review, pre-construction administration, progress payment processing, field inspection, change order evaluation and processing, and final acceptance coordination. The Inspection Services group is also responsible for coordinating specialized construction support services including surveying and geotechnical testing and inspection.

Operations Support: The Operations Support group is responsible for providing engineering support to other District departments. The Operations Support group generally focuses on the expansion and rehabilitation of existing District facilities. This group also provides design and construction management of small to medium size water, sewage and recycled water facilities.



ENGINEERING

OPERATING BUDGET SUMMARY

This group also includes the process control team that conducts research, develops projects and provides process control and technical support to enhance the performance of the District's domestic and recycled water supply, treatment, distribution, and storage facilities. The process control team also provides similar support to the District's sewage collection/treatment, recycled water and urban runoff treatment systems and supports District-wide regulatory compliance objectives.

Michelson Water Recycling Plant (MWRP) Construction: The MWRP Construction group is responsible for the construction of the MWRP Biosolids and Energy Recovery Facilities. The group ensures that sewage and biosolids treatment facilities are properly designed and constructed to meet the requirements of the MWRP Operations Department.

Major Goals

Planning

- Water Resources Master Plan update;
- Sewer Collection System Master Plan update;
- Great Park Sub-Area Master Plan update;
- Provide Inter-agency technical support;
- Develop alternative water supplies;
- Criticality Based Replacement Planning Model; and,
- Potable Reuse Alternatives Study.

Capital Projects

- MWRP Biosolids and Energy Recovery Facilities construction;
- Baker Water Treatment Plant construction;
- Stockdale West Integrated Water Banking construction;
- Irvine Lake Pipeline North Conversion to Recycled Water design and construction;
- Initial Disinfection Facility Chlorine Gas Removal construction;
- Water Recycling Treatment Plant Master Plan update;
- Multi-Zone Recycled Water Booster Pump Station (BPS) design and construction;
- Santiago Hills II Domestic Water Reservoir, Domestic Water BPS, and Recycled Water BPS design and construction;
- Second Zone 1 Reservoir design and construction; and,
- Syphon Reservoir Expansion preliminary design.

Development Services

- Heritage Fields Infrastructure design and construction;
- Orchard Hills Infrastructure design and construction;
- Baker Ranch Infrastructure design and construction;



ENGINEERING

OPERATING BUDGET SUMMARY

- Santiago Hills II Infrastructure design and construction;
- Tustin Legacy Infrastructure design and construction; and,
- Technology Drive Recycled Water Pipeline construction;

Operations Support

- Foothill Zone 6 and Portola Zone 8 Chloramine Booster Stations construction;
- MWRP Filter Pump Station Discharge Manifold Piping Replacement design;
- Santiago Dam Outlet Tower Retrofit design;
- Well Rehabilitation design and construction;
- Dyer Road Well Field Surge Tank Replacement design and construction;
- Evaluate process control and water quality monitoring data to assess, correct or recommend performance improvement of membrane treatment facilities, including IDP-SGU, IDP-PAP, IDP-PTP, DATS, CATS and the Wells 21/22 Desalter Plant;
- Develop test protocols, standard operating protocols and procedures, operate, perform sample collection and monitoring of bench, pilot and full-scale process facilities, including pilot and demonstration research projects;
- Act as a liaison and administer reporting IRWD groundwater extraction and treatment operations for removal of the TCE plume from the Irvine sub-basin groundwater at the IDP Principal Aquifer wells, IDP-PAP and IDP-SGU to the Department of the Navy (DON), local and state regulatory agencies;
- Train Plant and Systems Operations staff on process control procedures, monitoring and troubleshooting in the various water treatment and monitoring applications; and,
- Assist in the development and coordinate district wide research, pilot and demonstration projects.

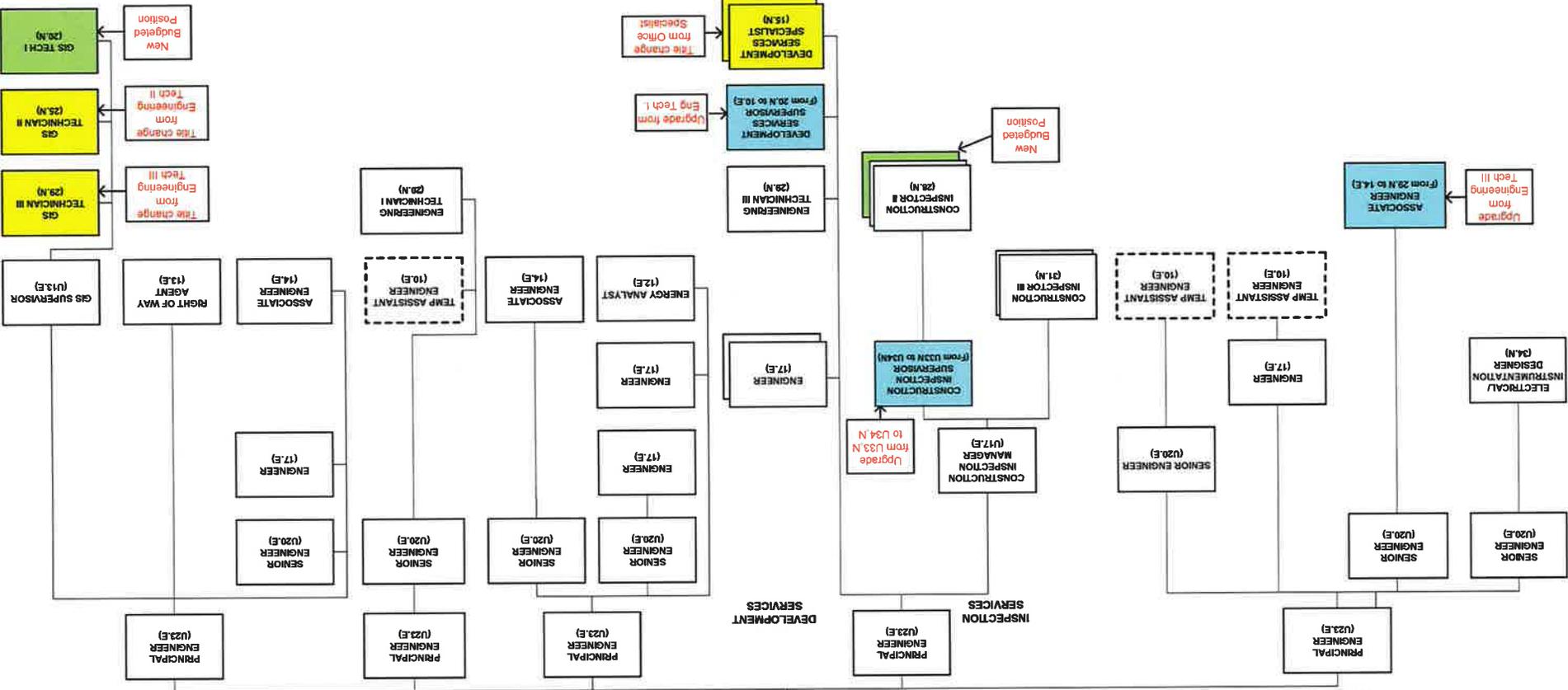
IRVINE RANCHO WATER DISTRICT
ENGINEERING
PROPOSED FISCAL YEAR 2016-17

General Manager

DIRECTOR OF
ENGINEERING &
WATER QUALITY (u30.E)

EXECUTIVE
ASSISTANT (u28.N)

STUDENT INTERNS



Symbol Key

Orange box	Downgraded position
Blue box	Upgraded/Reclass position
Green box	New budgeted position
White box	Regular FT position
Yellow box	Title change
Pink box with X	Delete position
White box with X	Transfered position
Dashed box	Temporary/Contract position

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Engineering		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
300	Regular Labor	4,139,304	2,048,180	4,143,200	4,377,500	234,300
300	Overtime Labor	139,766	66,517	142,000	144,000	2,000
300	Contract Labor	202,692	145,897	263,600	221,000	(42,600)
300	Telecommunication	109	0	0	0	0
300	Operating Supplies	19,100	1,783	24,900	9,400	(15,500)
300	Printing	17,645	1,049	28,500	16,000	(12,500)
300	Postage	1,997	1,305	1,600	2,800	1,200
300	Permits, Licenses and Fees	0	1,475	2,000	2,000	0
300	Office Supplies	12,518	5,241	14,000	12,500	(1,500)
300	Rep & Maint IRWD	(129)	0	0	0	0
300	Engineering Fees	0	0	76,000	122,000	46,000
300	Personnel Training	18,933	11,777	28,000	30,000	2,000
300	Other Professional Fees	3,148	1,435	26,600	103,000	76,400
Total Engineering		4,555,083	2,284,659	4,750,400	5,040,200	289,800
Total Engineering		4,555,083	2,284,659	4,750,400	5,040,200	289,800



WATER QUALITY

OPERATING BUDGET SUMMARY

Program Description

The Water Quality Department provides a wide range of support services that include Water Quality Analysis and Water Quality Administration.

Water Quality Administration: The Water Quality Administration group assists all Water Quality and Environmental groups in carrying out their missions; provides Water Quality related support to the operations and maintenance of all water and sewer collections systems; and ensures that all District operations are conducted in a safe, reliable, cost-effective, environmentally sensitive manner to achieve a high level of customer satisfaction.

Water Quality Analysis: The Water Quality Analysis group provides our internal and external customers with high quality data in a professional and timely manner. The Water Quality Analysis group utilizes state-of-the-art, United States Environmental Protection Agency (EPA) and State Water Resources Control Board Division of Drinking Water (DDW) approved analytical methods to provide data for regulatory monitoring and reporting, process control, research projects and capital projects.

Major Goals

Water Quality Administration

- Ensure the District operates in full compliance with all applicable federal, state and local environmental and water quality laws and regulations;
- Monitor the development of potential future regulations that may impact District activities;
- Ensure all compliance monitoring and reporting is completed and submitted by required due dates;
- Review new technologies that may be applicable to operations; and,
- Prepare water quality data for internal and external customers.

Water Quality Analysis

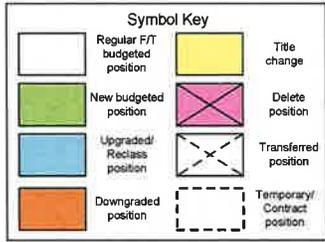
- Perform necessary analyses to determine compliance with all applicable federal, state and local environmental and water quality laws and regulations;
- Provide process control data to assist operating groups in meeting their regulatory requirements;
- Complete and submit all regulatory monitoring data by the specified due dates;
- Complete analyses within specified hold times and meet quality control specifications;
- Research and implement new testing methods where justified, specifically methods routinely sent out to contract laboratories and screening methods for system security and general water quality concerns;



WATER QUALITY

OPERATING BUDGET SUMMARY

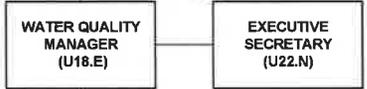
- Maintain the laboratory's Environmental Laboratory Accreditation Program (ELAP) certification by submitting the renewal application by the prescribed due date and successfully completing the site audit and proficiency testing;
- Successfully complete all required water, sewage, hazardous waste and DMR proficiency testing samples and submit the data by the prescribed due date;
- Research and implement, where appropriate, improved means to communicate water quality data to internal and external customers;
- Be environmentally responsible in the selection, procurement and disposal of reagents utilized in the laboratory; and,
- Seek to improve established contacts with regulatory agencies.



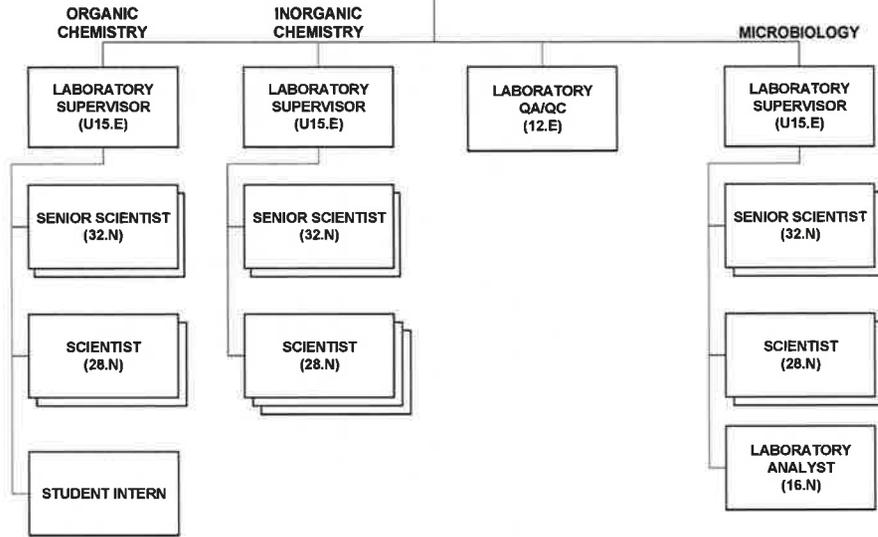
**IRVINE RANCH WATER DISTRICT
WATER QUALITY
PROPOSED FISCAL YEAR 2016-17**

Exec Director of
Engineering & Water
Quality

WATER QUALITY ADMINISTRATION (610)



WATER QUALITY ANALYSIS (630)



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
610	Regular Labor	219,070	110,448	209,500	213,800	4,300
610	Telecommunication	46	0	0	0	0
610	Operating Supplies	4,126	0	0	0	0
610	Postage	757	346	1,400	1,000	(400)
610	Office Supplies	2,735	1,632	3,000	3,000	0
610	Rep & Maint IRWD	13,942	1,190	0	0	0
610	Engineering Fees	31,068	0	0	0	0
610	Personnel Training	19,198	5,810	25,200	23,450	(1,750)
610	Other Professional Fees	88,936	66,032	99,000	98,750	(250)
Total	Water Quality Administration and Projects	379,878	185,458	338,100	340,000	1,900

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
630	Regular Labor	1,299,529	642,347	1,398,700	1,512,430	113,730
630	Overtime Labor	26,997	20,521	21,800	26,200	4,400
630	Contract Labor	69,591	22,113	70,000	15,000	(55,000)
630	Operating Supplies	337,273	283,764	366,100	384,300	18,200
630	Postage	1,683	493	7,000	2,400	(4,600)
630	Permits, Licenses and Fees	5,975	5,975	6,500	9,000	2,500
630	Equipment Rental	6,265	2,880	6,400	6,320	(80)
630	Rep & Maint IRWD	182,267	18,591	215,250	219,550	4,300
630	Engineering Fees	143,520	42,303	164,700	143,300	(21,400)
630	Personnel Training	683	194	2,200	2,200	0
630	Other Professional Fees	12,904	60	1,200	1,200	0
630	Safety	2,685	1,535	5,400	6,400	1,000
Total	Water Quality Analysis	2,089,372	1,040,776	2,265,250	2,328,300	63,050



WATER OPERATIONS OPERATING BUDGET SUMMARY

Program Description

The mission of the Water Operations Department is to operate and maintain the District's potable water, recycled water and untreated water systems in an efficient, cost effective and environmentally safe manner that provides a high level of customer satisfaction.

The Water Operations Department provides operation, maintenance and repair of the District's domestic water, recycled water and untreated water systems. These systems include the Dyer Road Wellfield, Deep Aquifer Treatment System, The Wells 21/22 Treatment Plant, Irvine Desalter Project (Potable Treatment Plant, Principal Aquifer Plant and Shallow Groundwater Unit) and Baker Water Treatment Plant.

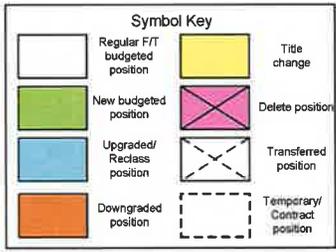
Major Goals

- Maintain 100% compliance with all regulatory permits;
- Meet the Department's adopted Operations and Maintenance budget;
- Startup and Commission of the Baker Water Treatment Plant (BWTP);
- Manage the BWTP to achieve operational and budgetary goals for IRWD and the project Partners;
- Maintain 6 or more Water Operators at the T-5 and D-5 certification level;
- Coordinate with the Finance, Engineering and Planning Departments on water supply and water banking opportunities to optimize cost effective operations;
- Achieve zero lost time accidents;
- Modify as needed and track adopted Operational Key Performance Indicators (KPI) to optimize operational efficiency and cost effectiveness;
- Maintain and develop staff competency through a combination of internal and external training;
- Operate and maintain the system to minimize energy consumption;
- Assist with the completion Supervisory Control and Data Acquisition (SCADA) upgrade implementation;
- Maintain the Dyer Road Well Field and Deep Aquifer Treatment System domestic water flows in accordance with the Ground Water Pumping Plan staying within the Basin Pumping Percentage (BPP) when possible
- Assist the Engineering Department with the design and startup of domestic and recycled water system facilities;
- Operate the Irvine Desalter Project (Potable Treatment Plant, Principal Aquifer Plant and Shallow Groundwater Unit) in accordance with the joint agency agreement and submit required reports;
- Ensure efficient operation of all District pumping and reservoir facilities;
- Ensure safe dam operation through the monitoring and surveillance program;
- Complete all Cross-Connection Control Program annual inspections and back-flow device Maintenance in accordance with the California Administrative Code, Title 17, Public Health Department Requirements;
- Provide construction and repair services to internal and external customers in a prompt, safe,

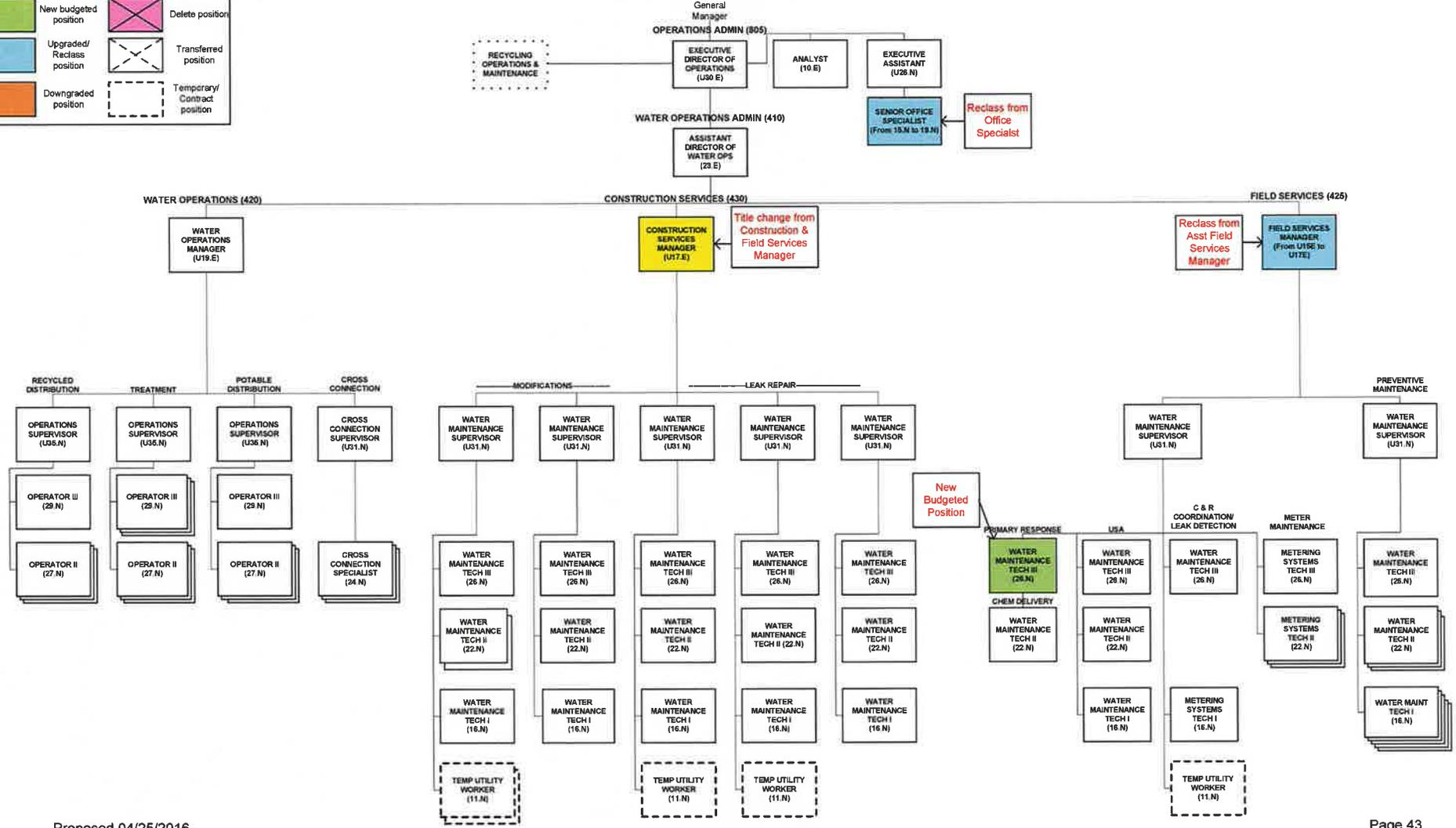


WATER OPERATIONS OPERATING BUDGET SUMMARY

- efficient, cost effective and environmentally sensitive manner;
- Maintain a high level of customer satisfaction by responding promptly to and repairing water leaks with minimal impact to customers;
 - Continue the sewer repair project to improve sewer system reliability;
 - Meet all preventive maintenance programs for the distribution system;
 - Replace residential and commercial meters on the recommended cycle;
 - Mark the District's underground facilities in response to Underground Service Alert (USA) tickets to prevent potential damages to the facilities from construction activities;
 - Set and complete annual maintenance goals in accordance with AWWA and industry standards; and,
 - Respond promptly to all customer service requests (CSR).



**IRVINE RANCH WATER DISTRICT
OPERATIONS ADMINISTRATION & WATER OPERATIONS
PROPOSED FISCAL YEAR 2016-17**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
805	Regular Labor	322,414	144,598	402,600	431,400	28,800
805	Telecommunication	0	121	0	2,000	2,000
805	Operating Supplies	4,556	2,897	10,000	6,000	(4,000)
805	Printing	0	0	2,500	2,500	0
805	Postage	24	0	1,000	1,000	0
805	Office Supplies	4,913	2,704	43,500	20,000	(23,500)
805	Personnel Training	13,388	11,681	159,200	164,000	4,800
805	Other Professional Fees	12,274	10,086	119,500	163,500	44,000
805	Safety	44	0	0	0	0
Total	Operations Administration	357,613	172,087	738,300	790,400	52,100

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
410	Regular Labor	112,053	54,092	143,800	148,700	4,900
410	Contract Labor	4,074	0	0	0	0
410	Other Utilities	23,189	10,231	21,600	0	(21,600)
410	Operating Supplies	4	0	0	0	0
410	Permits, Licenses and Fees	84,135	9,562	88,600	90,600	2,000
410	Office Supplies	142	0	0	0	0
410	Equipment Rental	9,928	5,038	0	0	0
410	Rep & Maint Other Agencies	2,056,254	755,707	377,600	0	(377,600)
410	Engineering Fees	106,617	43,598	47,000	47,000	0
410	Personnel Training	8,685	0	0	0	0
410	Other Professional Fees	2,558	1,568	0	0	0
Total	Water Operations Administration	2,407,639	879,796	678,600	286,300	(392,300)

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
420	Water Purchases	32,891,508	14,491,500	34,964,250	36,234,030	1,269,780
420	Regular Labor	1,604,014	722,318	1,674,500	1,808,890	134,390
420	Overtime Labor	302,863	152,232	310,300	379,700	69,400
420	Electricity	8,911,471	4,312,385	9,892,000	10,098,850	206,850
420	Fuel	28,126	13,827	24,000	35,600	11,600
420	Telecommunication	45,575	23,323	41,200	48,800	7,600
420	Other Utilities	9,865	0	10,000	33,400	23,400
420	Chemicals	949,078	488,264	862,900	1,589,910	727,010
420	Operating Supplies	59,861	27,983	47,600	47,600	0
420	Postage	30	0	0	0	0
420	Permits, Licenses and Fees	16,415	15,733	13,800	93,400	79,600
420	Office Supplies	865	0	0	0	0
420	Equipment Rental	0	0	9,000	9,000	0
420	Rep & Maint Other Agencies	(41,885)	(427,199)	372,000	873,800	501,800
420	Rep & Maint IRWD	290,862	233,959	293,000	1,179,420	886,420
420	Engineering Fees	0	13,235	61,000	61,000	0
420	Personnel Training	10,262	501	0	0	0
420	Other Professional Fees	3,581	482	50,500	75,500	25,000
420	Safety	0	0	3,000	3,000	0
Total Water Operations		45,082,491	20,068,543	48,629,050	52,571,900	3,942,850

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
425	Regular Labor	1,370,933	690,531	1,365,300	1,550,900	185,600
425	Overtime Labor	156,875	88,281	134,000	150,000	16,000
425	Contract Labor	4,105	38,903	0	62,400	62,400
425	Telecommunication	227	243	0	0	0
425	Chemicals	228	228	500	500	0
425	Operating Supplies	72,371	39,582	73,000	78,000	5,000
425	Permits, Licenses and Fees	10,794	5,840	11,000	13,000	2,000
425	Office Supplies	100	0	0	0	0
425	Equipment Rental	0	0	5,000	2,500	(2,500)
425	Rep & Maint IRWD	250,729	159,736	249,000	250,800	1,800
425	Personnel Training	359	0	0	0	0
425	Other Professional Fees	3,359	169	1,000	1,000	0
Total	Field Services	1,870,080	1,023,513	1,838,800	2,109,100	270,300

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
430	Regular Labor	1,569,998	695,263	1,577,400	1,626,000	48,600
430	Overtime Labor	181,541	104,086	206,000	221,000	15,000
430	Contract Labor	27,278	49,563	0	62,400	62,400
430	Telecommunication	357	86	0	0	0
430	Chemicals	0	0	500	400	(100)
430	Operating Supplies	159,261	68,859	162,800	158,000	(4,800)
430	Permits, Licenses and Fees	30,434	32,287	63,000	67,000	4,000
430	Equipment Rental	1,094	2,418	21,000	14,000	(7,000)
430	Rep & Maint IRWD	331,251	244,319	549,000	487,000	(62,000)
430	Personnel Training	924	0	0	0	0
430	Other Professional Fees	1,478	106	2,000	0	(2,000)
Total	Construction Services	2,303,616	1,196,987	2,581,700	2,635,800	54,100



RECYCLING OPERATIONS

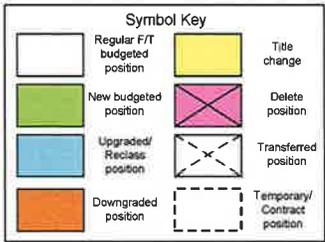
OPERATING BUDGET SUMMARY

Program Description

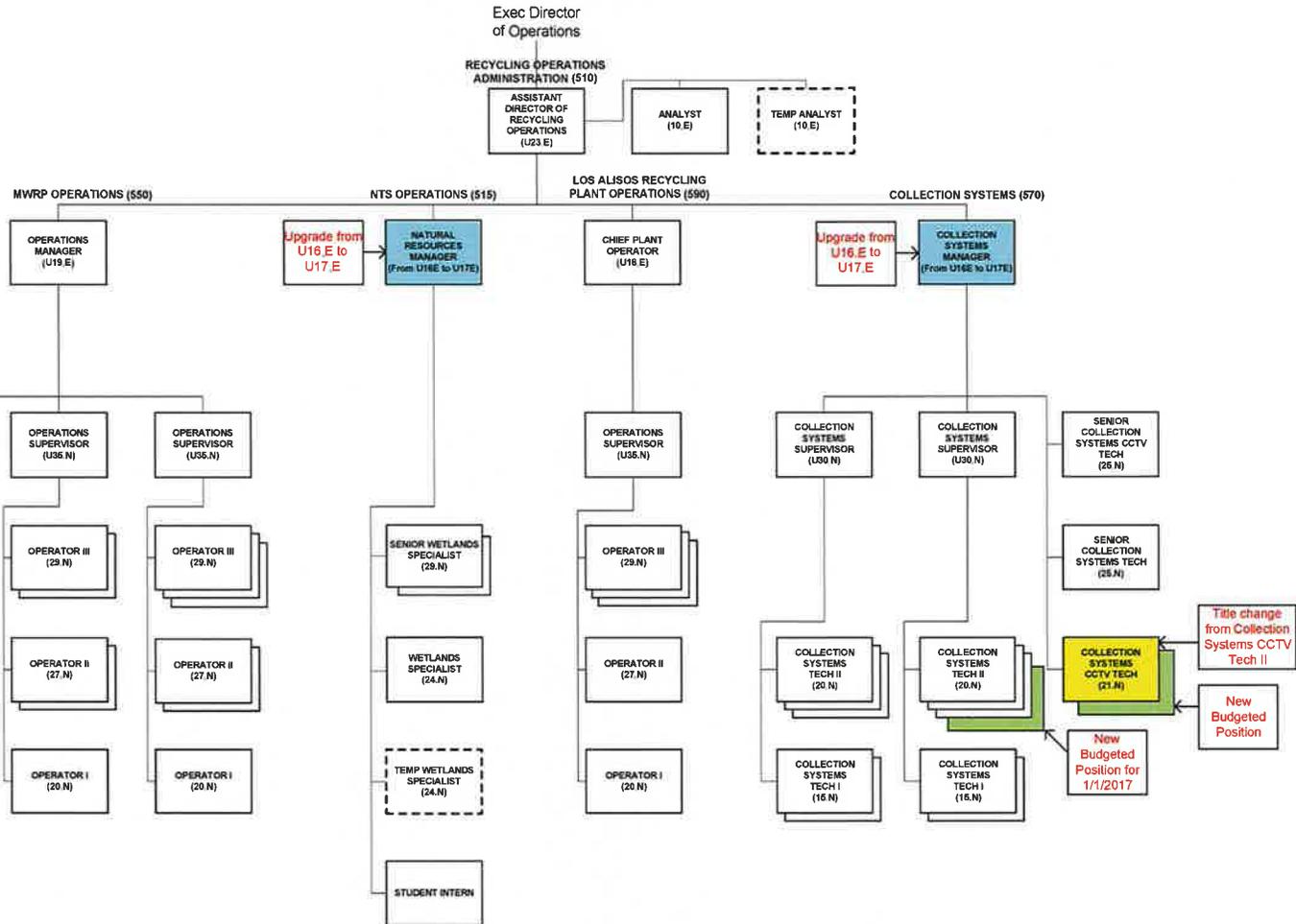
The mission of the Recycling Operations Department is to operate the District's resource recovery systems in a regulatory compliant, efficient, and environmentally safe manner that provides the highest level of customer satisfaction. The Recycling Operations Department provides cost-effective, reliable and compliant operation of the District's Collection Systems, Michelson Water Recycling Plant (MWRP), Los Alisos Water Recycling Plant (LAWRP), and Natural Treatment System (NTS).

Major Goals

- Meet the Department's adopted Operations budget;
- Achieve zero lost time accidents;
- Maintain 100% compliance with all regulatory requirements;
- Modify and track operational Key Performance Indicators (KPIs) to optimize efficiency and cost effectiveness;
- Maximize recycled water production at both recycling facilities;
- Transition operational responsibilities for the completed portions of the MWRP Biosolids and Energy Recovery Facilities milestones from construction management to Recycling Operations;
- Finalize plan for FOG integration into the Biosolids project;
- Finalize plan for Pellet Marketing and Distribution. Maximize coordination and synergy opportunities with Encina WW Authority and other agencies;
- Maintain six Grade V operators on staff;
- Maintain and develop staff competency through a combination of internal and external training;
- Evaluate and optimize chemical usage for the collection and recycling facilities systems;
- Explore participation with other agencies in MWRP Biosolids facilities on an interim basis (bringing in class B solids);
- Evaluate and implement options for cleaning and inspection of large sewer lines within the IRWD service area;
- Finalize the implementation of the Water Information Management System (WIMS) database management program; and,
- Prepare an Annual Report of NTS Operations including nutrient removal performance at each NTS facility, operational objectives, and recommendations for adaptive changes to the NTS program.



**IRVINE RANCH WATER DISTRICT
RECYCLING OPERATIONS
PROPOSED FISCAL YEAR 2016-17**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
510	Regular Labor	151,185	64,603	234,400	223,250	(11,150)
510	Contract Labor	6,601	16,354	10,000	30,000	20,000
510	Fuel	89	0	0	0	0
510	Telecommunication	1,389	688	1,400	1,800	400
510	Operating Supplies	6	0	500	500	0
510	Postage	50	0	0	0	0
510	Permits, Licenses and Fees	161	0	0	250	250
510	Office Supplies	141	0	0	0	0
510	Rep & Maint Other Agencies	5,810,699	2,377,455	4,720,000	4,850,000	130,000
510	Rep & Maint IRWD	(956)	0	0	0	0
510	Personnel Training	876	49	0	0	0
510	Other Professional Fees	228	12	50,000	75,000	25,000
Total	Recycling Operations Administration	5,970,469	2,459,161	5,016,300	5,180,800	164,500

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
515	Regular Labor	265,130	129,951	323,700	341,600	17,900
515	Overtime Labor	2,843	857	4,000	4,000	0
515	Contract Labor	41,312	40,832	30,000	30,000	0
515	Electricity	198,681	72,951	261,200	261,200	0
515	Telecommunication	2,024	195	0	0	0
515	Operating Supplies	18,872	9,729	19,000	22,000	3,000
515	Printing	299	0	0	0	0
515	Postage	181	0	0	0	0
515	Permits, Licenses and Fees	0	2,633	1,000	1,000	0
515	Equipment Rental	6,224	2,392	7,000	7,000	0
515	Rep & Maint Other Agencies	14,043	15,319	24,000	24,000	0
515	Rep & Maint IRWD	1,010,895	361,247	1,039,400	1,043,300	3,900
515	Engineering Fees	29,564	18,357	57,500	92,500	35,000
515	Personnel Training	(1,965)	1,005	2,800	2,800	0
515	Other Professional Fees	977	577	0	0	0
515	Safety	10,752	506	0	0	0
515	Other	11,723	1,174	12,000	12,000	0
Total NTS Operations		1,611,555	657,725	1,781,600	1,841,400	59,800

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
550	Regular Labor	1,058,406	555,191	1,368,000	1,474,375	106,375
550	Overtime Labor	96,270	50,497	108,900	108,900	0
550	Electricity	2,648,577	1,220,201	4,280,700	3,025,000	#####
550	Fuel	8,079	4,389	20,000	76,400	56,400
550	Telecommunication	173	20	0	0	0
550	Chemicals	618,387	291,513	452,600	796,225	343,625
550	Operating Supplies	18,460	15,242	18,800	74,400	55,600
550	Equipment Rental	0	0	6,000	12,000	6,000
550	Rep & Maint Other Agencies	13,958,627	4,962,000	8,394,000	8,394,000	0
550	Rep & Maint IRWD	78,718	2,176	30,400	64,000	33,600
550	Personnel Training	6,669	1,372	800	2,000	1,200
550	Other Professional Fees	5,503	7	0	0	0
550	Safety	1,504	0	5,500	12,000	6,500
550	Biosolids Disposals				239,200	239,200
550	Other	92,528	46,215	126,400	110,000	(16,400)
Total MWRP Operations		18,591,901	7,148,823	14,812,100	14,388,500	(423,600)

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
570	Regular Labor	1,088,119	544,200	1,096,200	1,223,900	127,700
570	Overtime Labor	121,026	62,709	116,900	111,500	(5,400)
570	Contract Labor	(2,185)	0	0	0	0
570	Electricity	80,427	51,344	113,000	113,000	0
570	Telecommunication	15,038	11,642	12,600	16,000	3,400
570	Chemicals	456,533	231,839	460,000	552,000	92,000
570	Operating Supplies	64,134	43,711	53,600	64,000	10,400
570	Rep & Maint IRWD	549,506	79,137	390,600	439,800	49,200
570	Personnel Training	1,563	50	0	0	0
570	Other Professional Fees	2,223	325	0	80,000	80,000
570	Safety	340	1,911	4,000	10,000	6,000
Total	Collections Systems	2,376,724	1,026,868	2,246,900	2,610,200	363,300

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
590	Regular Labor	605,780	273,194	589,500	615,050	25,550
590	Overtime Labor	93,858	30,867	61,200	61,100	(100)
590	Electricity	1,007,281	521,760	1,100,000	932,150	(167,850)
590	Fuel	731	295	1,000	1,000	0
590	Telecommunication	89	0	400	0	(400)
590	Chemicals	259,485	111,296	239,200	194,400	(44,800)
590	Operating Supplies	8,608	5,452	6,600	6,600	0
590	Office Supplies	678	121	0	0	0
590	Rep & Maint Other Agencies	196,849	137,472	299,200	256,000	(43,200)
590	Rep & Maint IRWD	79,004	47,359	100,000	104,000	4,000
590	Engineering Fees	0	0	33,000	0	(33,000)
590	Personnel Training	50	0	0	0	0
590	Other Professional Fees	1,790	0	0	1,600	1,600
590	Safety	575	250	1,700	1,700	0
590	Other	67,863	8,582	25,000	25,000	0
Total LAW RP Operations		2,322,641	1,136,648	2,456,800	2,198,600	(258,200)



MAINTENANCE

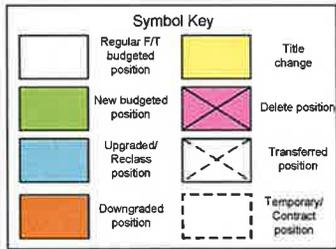
OPERATING BUDGET SUMMARY

Program Description

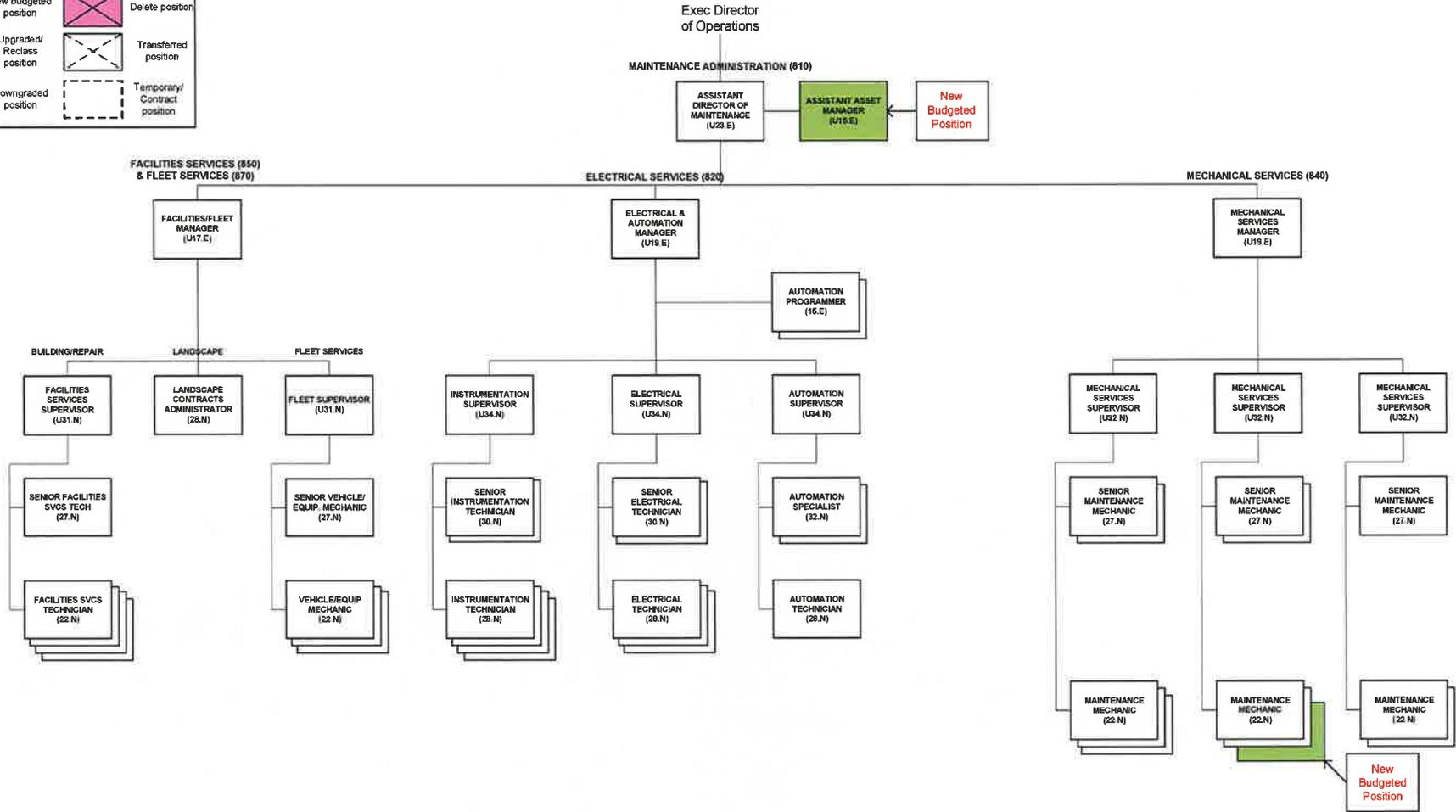
The mission of Maintenance Department is to manage the District's assets to ensure optimal life expectancy, reliability, efficiency and safety goals while providing the highest level of customer satisfaction. The Maintenance Department coordinates the asset management of the District's electrical, mechanical, instrumentation, automation, supervisory control and data acquisition (SCADA) system, fleet and facility assets to ensure safe, reliable, and cost effective operation.

Major Goals

- Meet the Department's adopted Maintenance and General Plant budgets;
- Achieve zero lost time accidents;
- Maintain 100% compliance with all regulatory requirements;
- Complete the pre-implementation activities for the Enterprise Asset Management (EAM) system including data collection, cataloging of assets, developing business processes, and identifying asset criticality protocols;
- Initiate implementation activities for the EAM system including software selection and the selection of a system integrator;
- Identify and track operational Key Performance Indicators (KPIs) to optimize efficiency and cost effectiveness;
- Implement the training plan for the MWRP Biosolids and Energy Recovery Facilities. Initiate an RFP for the operation and maintenance of the biogas cleaning facilities and microturbines;
- Support the start-up of the Baker Water Treatment Facility and commence the maintenance program;
- Design and construct a combined Water and Recycling Operations Control Room to enhance SCADA monitoring, intra-departmental cooperation and new technology development;
- Maintain and develop staff competency through a combination of internal and external training;
- Investigate and expand the use of new technology to enhance and increase equipment reliability and staff productivity;
- Evaluate the conversion of the District light vehicle fleet to alternative fuel;
- Complete automation improvements such as the conversion Los Alisos Water Reclamation Plant SCADA system to upgraded technology;
- Provide Engineering support for projects including the Biosolids and Energy Recovery Facilities, Baker Water Treatment Facility, Well ET-2;
- Optimize predictive maintenance measures through pump efficiency testing, lube oil analysis, vibration analysis, ultrasound detection, and infrared thermography program;
- Maintain all District buildings and facilities to ensure longevity to include the installation of a new Operations Center roof; and,
- Perform all required maintenance on schedule to ensure safe and dependable cost effective fleet operation.



**IRVINE RANCH WATER DISTRICT
MAINTENANCE OPERATIONS
PROPOSED FISCAL YEAR 2016-17**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
810	Regular Labor	152,536	76,313	143,000	149,100	6,100
810	Personnel Training	156	155	0	0	0
810	Other Professional Fees	614	130	0	0	0
Total Maintenance Administration		153,306	76,598	143,000	149,100	6,100

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
820	Regular Labor	1,346,855	715,443	1,658,100	1,768,350	110,250
820	Overtime Labor	119,252	82,743	134,900	158,700	23,800
820	Telecommunication	97	129	0	0	0
820	Operating Supplies	76,545	24,428	82,950	92,950	10,000
820	Rep & Maint IRWD	604,595	451,078	854,300	909,200	54,900
820	Personnel Training	8,801	145	0	0	0
820	Other Professional Fees	2,990	616	2,800	2,800	0
820	Mileage Reimbursement	50	0	0	0	0
820	Safety	8,550	4,751	16,800	16,800	0
Total Electrical Services		2,167,735	1,279,333	2,749,850	2,948,800	198,950

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
840	Regular Labor	1,098,907	506,024	1,187,000	1,379,100	192,100
840	Overtime Labor	63,734	35,105	82,900	99,000	16,100
840	Contract Labor	3,476	13,184	0	0	0
840	Telecommunication	197	105	0	0	0
840	Operating Supplies	78,458	42,070	64,600	81,200	16,600
840	Equipment Rental	0	0	4,000	4,000	0
840	Rep & Maint IRWD	591,325	395,158	873,700	1,006,000	132,300
840	Personnel Training	4,659	103	0	0	0
840	Other Professional Fees	2,249	188	200	0	(200)
840	Safety	3,039	818	8,000	6,200	(1,800)
Total	Mechanical Services	1,846,044	992,755	2,220,400	2,575,500	355,100
Total	Water Operations	94,623,646	43,231,832	97,631,000	104,160,400	6,522,460

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Maintenance		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
850	Regular Labor	329,901	159,939	600,400	621,700	21,300
850	Overtime Labor	10,516	4,466	10,900	10,400	(500)
850	Contract Labor	76,300	53,067	25,000	25,000	0
850	Telecommunication	212	114	0	0	0
850	Other Utilities	29,228	12,501	35,000	35,400	400
850	Operating Supplies	29,337	9,548	21,500	23,500	2,000
850	Rep & Maint IRWD	823,180	477,983	942,100	955,900	13,800
850	Personnel Training	315	1,749	0	0	0
850	Other Professional Fees	307	244	1,000	0	(1,000)
850	Mileage Reimbursement	(5)	0	0	0	0
Total Facilities Services		1,299,291	719,611	1,635,900	1,671,900	36,000

**Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17**

Maintenance		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
855	Regular Labor	44,727	20,991	0	0	0
855	Overtime Labor	16,069	6,870	6,000	6,000	0
855	Contract Labor	4,532	4,497	0	0	0
855	Electricity	173,139	97,240	190,000	190,000	0
855	Fuel	7,994	2,764	10,000	10,000	0
855	Other Utilities	4,631	1,952	5,000	5,000	0
855	Operating Supplies	17,942	9,961	20,400	20,400	0
855	Rep & Maint IRWD	346,984	111,832	303,100	300,500	(2,600)
Total Headquarters Property Services		616,018	256,107	534,500	531,900	(2,600)

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Maintenance		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
860	Regular Labor	180,571	75,015	0	0	0
860	Overtime Labor	2,768	4,363	7,000	7,000	0
860	Contract Labor	16,145	6,497	0	0	0
860	Electricity	163,573	64,990	220,000	200,000	(20,000)
860	Fuel	12,405	4,410	20,000	20,000	0
860	Other Utilities	28,382	15,715	20,000	33,000	13,000
860	Operating Supplies	29,309	14,713	40,000	40,000	0
860	Rep & Maint IRWD	331,032	209,834	311,500	318,500	7,000
Total Operations Center Property Services		764,185	395,537	618,500	618,500	0

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Maintenance		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
870	Regular Labor	374,081	184,590	351,800	375,000	23,200
870	Overtime Labor	6,300	8,111	9,000	10,300	1,300
870	Contract Labor	4,526	0	0	0	0
870	Fuel	559,426	135,197	627,200	423,400	(203,800)
870	Telecommunication	90	0	0	0	0
870	Other Utilities	52,095	27,859	55,200	61,600	6,400
870	Operating Supplies	7,181	2,149	7,800	7,800	0
870	Permits, Licenses and Fees	5,900	2,188	6,300	7,500	1,200
870	Equipment Rental	7,369	0	13,000	12,000	(1,000)
870	Rep & Maint IRWD	487,003	288,936	479,400	499,400	20,000
870	Personnel Training	43	0	0	0	0
870	Mileage Reimbursement	104,012	50,116	132,000	132,000	0
Total Fleet Services		1,608,026	699,146	1,681,700	1,529,000	(152,700)
Total Maintenance		4,287,520	2,070,401	4,470,600	4,351,300	(119,300)
GRAND TOTAL		125,504,825	60,505,608	140,378,000	150,341,200	9,956,260



WATER POLICY AND RESOURCES

OPERATING BUDGET SUMMARY

Program Description

The Water Policy and Resources Department is responsible for developing and implementing water resource supply and demand management programs to enhance the reliability of water supplies for District customers. The department is also responsible for managing the District's environmental compliance programs and regulatory requirements.

Water Use Efficiency: Demand management programs directly offset the need for developing additional water supplies and are a critical element in meeting the District's water resources/reliability objectives. IRWD has provided industry leadership through the development of innovative and aggressive demand management programs focusing on water use efficiency and wastewater recycling. An updated Water Use Efficiency Plan was adopted in December 2013. The focus was shifted in fiscal year 2015-16 in response to a state mandated conservation target in response to the statewide drought. Staff anticipates continuing to implement programs to address drought related response, gradually transitioning back to implementing the District's long-term water efficiency programs, based on hydrologic conditions. Conservation programs including the outdoor efficiency RightScape program, new data reporting technologies to engage customers, tactical and participation in innovative pilots and research that maintain IRWD's leadership position are incorporated into the fiscal year 2016-17 budget. IRWD will continue to be engaged in the development and implementation of local, regional, state-wide and national water efficiency and demand management policies.

Recycled Water: IRWD is recognized as a national leader in recycled water based in large part on the many years of experience IRWD has with recycled water, the large number of meters served, and groundbreaking projects IRWD has completed. IRWD currently serves more than 5,300 recycled water meters including more than 65 commercial dual-plumbed buildings where recycled water is used for flushing toilets and urinals and more than 610 single-family lots where recycled water is used for irrigating both the front and back yards. The Recycled Water Group continues to pursue additional customers for recycled water in the service area which includes the conversion of dozens of untreated water customers to recycled water. IRWD is also recognized for its support of recycled water through organizations such as WaterReuse, a national recycled water advocacy group. IRWD, in concert with WaterReuse, is active in state-wide policy, legislation, regulation, and support for other agencies which face challenges as their programs are initiated or are being expanded. IRWD has a lead role in working with other water recycling agencies and the regulatory agencies in Orange County to establish standards for on-going inspection and testing of recycled water use sites. In fiscal year 2016-16, the Recycled Water Group will be conducting studies with key customers to determine the feasibility of using recycled water for industrial applications, expanding the use of recycled water for irrigation by retrofitting potable irrigation areas to recycled water, and using recycled water to irrigate orchards that are more sensitive to some constituents found in recycled water.



WATER POLICY AND RESOURCES

OPERATING BUDGET SUMMARY

Major Goals

WATER USE EFFICIENCY

- Assist IRWD customers in meeting state mandated conservation goals through ongoing implementation of enhanced outreach and cost-effective demand management programs;
- Develop partnerships with private and public entities to leverage the effectiveness and reach of water efficiency programs;
- Research and implement, as appropriate, new technologies and innovative programs to assist customers with improving their water use efficiency with a special emphasis on the RightScope outdoor conservation program;
- Continue to partner with commercial, industrial and institutional customers to implement cost-effective water use efficiency programs;
- Continue to support and expand enhanced customer engagement and reporting as a tool to motivate additional water use efficiency;
- Continue to support and expand educational programs for the professional landscape industry;
- Research and implement, as appropriate, the use of enhanced GIS data to improve customer allocation-setting, outreach and programs targeted toward outdoor water use;
- Actively participate in statewide policy discussions addressing the water-energy nexus;
- Actively engage in statewide policy discussions regarding implementation of SBx7-7 (20 x 2020) and implementation of Demand Management Measures required by the Urban Water Management Planning Act;
- Actively engage in discussions with the State Water Resources Control Board, the Department of Water Resources and other stakeholders to develop a framework for efficient water use that balances local conditions and supplies, recycled water, prior conservation, growth and other equity adjustments;
- Work with the California Urban Water Conservation Council (CUWCC) on statewide conservation issues and refinements to the Best Management Practices (BMP);
- Establish the appropriate metrics and quantify conservation targets;
- Evaluate water use efficiency programs and Water Use Efficiency Plan; and
- Continue to work with partners in Newport Bay Executive Committee to develop and implement the elements of the San Diego Creek Watershed Selenium BMP Strategic Plan.

RECYCLED WATER/NON-POTABLE WATER

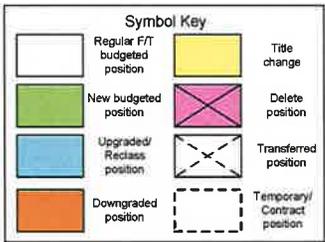
- Convert a minimum of 1,000 acre-feet of imported water use to recycled water;
- Apply for new *Local Resources Program* funding from MWD which provides a “per-acre foot” financial incentive to increase the use of recycled water. Projects include the North Irvine Lake Pipeline Conversion Project which will conserve approximately 2,500 acre-feet per year and the UCI Central Plant cooling tower project which will conserve approximately 125 acre-feet per year;
- Convert the UCI Central Plant cooling towers to recycled water;
- Assist WaterReuse California with its legislative agenda which includes allowing discharge of



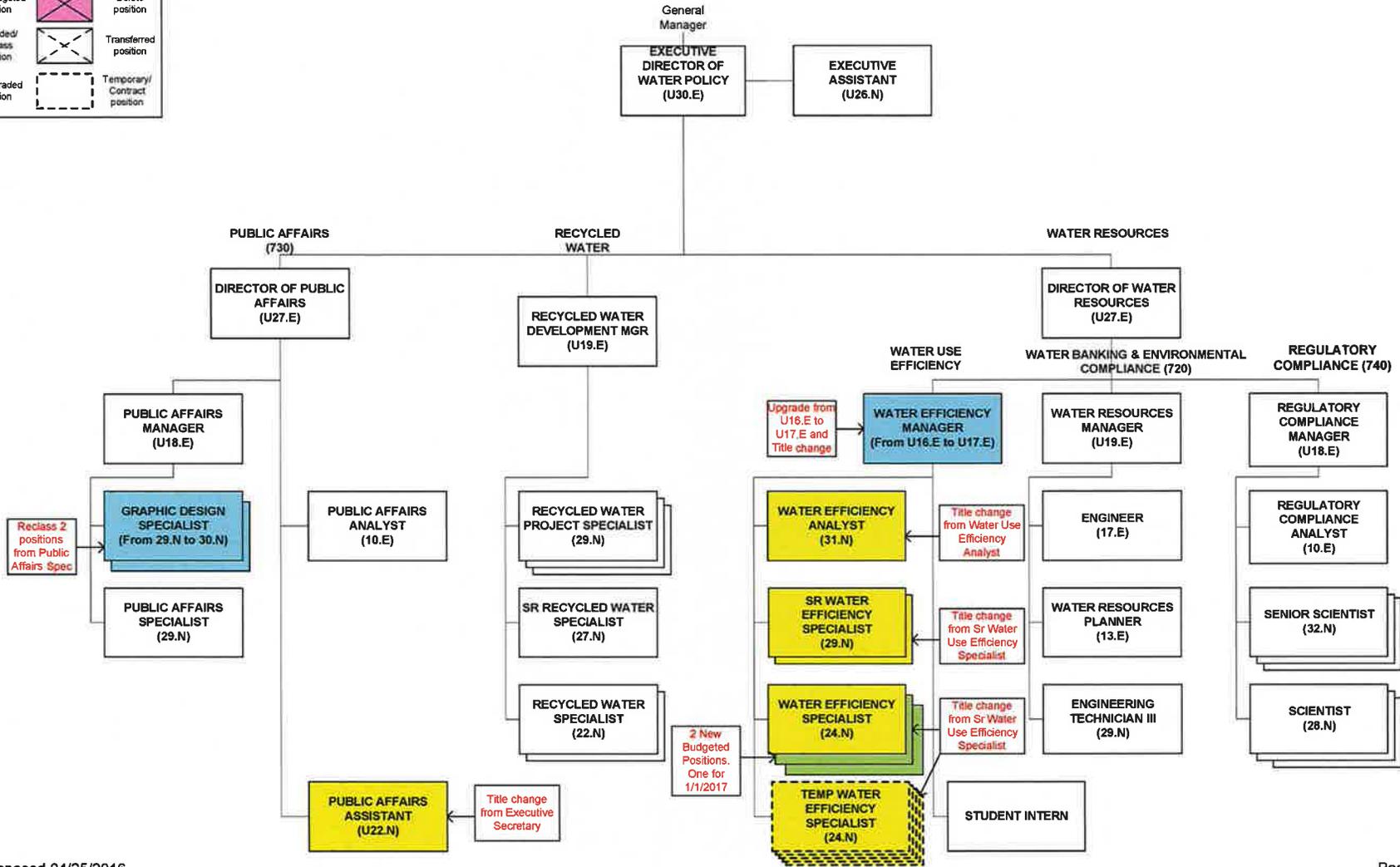
WATER POLICY AND RESOURCES

OPERATING BUDGET SUMMARY

- recycled water from impoundments during storm events;
- Remain active the in Orange County Chapter of WaterReuse California;
- Fully develop the Recycled Water Use Site Inspection and Testing Program including at single-family lots;
- Work with other stakeholders in Orange County to develop standards for the on-going inspection and testing of recycled water use sites which can be a template used by other agencies throughout the state; and
- Seek opportunities to dual-plumb hotels, condominiums, and apartment properties.



**IRVINE RANCH WATER DISTRICT
WATER RESOURCES AND POLICY
PROPOSED FISCAL YEAR 2016-17**



Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
<u>Dept No</u>	<u>Expense Name</u>					
710	Regular Labor	1,268,393	625,947	1,341,300	1,372,040	30,740
710	Overtime Labor	20,302	22,853	12,800	36,000	23,200
710	Contract Labor	108,281	199,950	85,100	225,660	140,560
710	Operating Supplies	62,220	38,429	81,150	71,000	(10,150)
710	Printing	0	0	500	500	0
710	Postage	1,138	1,311	2,500	2,000	(500)
710	Permits, Licenses and Fees	27,272	2,015	55,000	40,000	(15,000)
710	Office Supplies	1,521	1,951	1,200	4,000	2,800
710	Rep & Maint IRWD	15,635	7,661	103,700	30,000	(73,700)
710	Engineering Fees	112,950	30,000	60,000	108,000	48,000
710	Personnel Training	19,313	11,736	32,000	34,000	2,000
710	Other Professional Fees	755,588	186,616	1,203,450	873,100	(330,350)
710	Mileage Reimbursement	173	16	0	0	0
710	Conservation	1,415,333	231,501	1,694,000	2,948,000	1,254,000
Total	Water Resources and Policy	3,808,119	1,359,986	4,672,700	5,744,300	1,071,600



WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE

OPERATING BUDGET SUMMARY

Program Description

The Water Resources and Environmental Compliance Department is responsible for the development of water supply programs and banking projects primarily outside of the local Orange County area. These programs and projects are increasing the diversity and reliability of the District's water supplies by securing water supplies from sources outside of Orange County during wet periods and storing them for future use in groundwater banking projects in Kern County. The Department is also responsible for exploring and developing potential local water supply reliability opportunities. The District's efforts in the development of these programs and projects are needed in response to stressors on water supply reliability such as environmental pressures in the Delta, expanding statewide population, climate change, and expanding regulatory requirements. This department is responsible for the planning and development of the District's water banking programs. In addition, this department is responsible for the negotiation and development of agreements with other agencies and entities throughout the State of California for water transfer and exchanges that facilitate the recharge, storage and recovery of water at the water banking projects. It is also responsible for the negotiation and the development of agreements that facilitate the delivery of water recovered from the water banking projects to IRWD's service area through facilities owned by the California Department of Water Resources, Kern County Water Agency and Metropolitan Water District of Southern California.

Other responsibilities of the Water Resources and Environmental Compliance department include managing the District's environmental and regulatory compliance programs, and overseeing the District's salt management, energy efficiency and renewable energy planning activities. The environmental and regulatory compliance programs focus on fulfilling the District's compliance requirements for the operation of potable water and wastewater systems operations, facility replacements and the construction of new facilities.

Major Goals

WATER RESOURCES:

- Bank 88,000 AF of water for IRWD, develop 70 cfs of extraction and additional recharge and storage capacity as needed for IRWD and its water banking partners;
- Negotiate a MWD Policy for the delivery of MWD system water to IRWD's Kern County Banking Projects;
- Implement long-term unbalanced exchange agreements with Central Coast Water Authority Carpinteria Valley Water District and/or Antelope Valley-East Kern Water Agency;
- Develop and execute a one-year exchange agreement with Buena Vista Water Storage Agreement for pre-1914 Kern River water to be delivered to the Stockdale Integrated Banking Project;
- Develop a business plan for IRWD's water banking projects and programs;
- Execute long term exchange agreements to facilitate exports of Kern River water to IRWD service area;



WATER RESOURCES AND ENVIRONMENTAL COMPLIANCE

OPERATING BUDGET SUMMARY

- Investigate land following and water transfer opportunities;
- Investigate opportunities to purchase State Water Project Table A entitlement;
- Construct Drought Relief Project recovery and conveyance facilities;
- Increase IRWD's amount of water stored in Southern California; and,
- Identify, evaluate and secure land for the additional third property under the Stockdale Integrated Banking Project for joint use with Rosedale.

ENVIRONMENTAL COMPLIANCE

- Investigate fully developing the District's rights to the use of San Diego Creek flows; Investigate developing a mitigation credit inventory for the District's San Joaquin Marsh; and
- Fulfill the District's environmental and regulatory compliance requirements for capital projects, replacements and operations including the development and approval of Mitigated Negative Declarations, Environmental Impact Reports and Notices of Exemption.

ENERGY AND OTHER PLANNING

- Prepare and complete the District's 2015 Urban Water Management Plan;
- Implement recommendations from Embedded Energy Plan;
- Evaluate the impact varying water supplies on maintaining the District's salt balance;
- Update Energy Master Plan;
- Seek grant opportunities for District energy projects;
- Participate in SCE's Direct Access Program; and,
- Maximize participation in the Preferred Resources Program.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
720	Water Purchases	0	0	11,000	0	(11,000)
720	Regular Labor	592,066	292,424	573,700	603,590	29,890
720	Overtime Labor	624	95	800	800	0
720	Contract Labor				23,290	23,290
720	Electricity	417,866	17,154	334,500	8,820	(325,680)
720	Permits, Licenses and Fees	73,165	86,233	120,000	263,500	143,500
720	Office Supplies	461	0	1,000	0	(1,000)
720	Rep & Maint IRWD	182,928	102,750	281,700	368,500	86,800
720	Personnel Training	3,712	780	7,000	3,000	(4,000)
720	Other Professional Fees	13,641	10,681	17,800	26,100	8,300
Total	Water Resources and Environmental Compliance	1,284,463	510,117	1,347,500	1,297,600	(49,900)



PUBLIC AFFAIRS

OPERATING BUDGET SUMMARY

Program Description

The Public Affairs Department is responsible for communicating accurate and timely information about Irvine Ranch Water District services, projects, activities and programs. The department uses multiple media platforms, including print, personal contact, education programs, publications, tours, as well as electronic and social media outlets. The IRWD communication program serves the District and our customers by:

- Creating and maintaining credibility and public trust;
- Increasing customer awareness of the services we provide ;
- Promoting the District's value, activities and events of significance;
- Ensuring that accurate and timely information is conveyed to the public regarding incidents; and issues of a controversial and/or sensitive nature; and
- Promoting transparency and easy to access information.

Major Goals

WATER EFFICIENCY OUTREACH

- Educate customers on efficient water use practices using multiple outreach platforms including resident tours of IRWD facilities, open houses, print, electronic media, and the internet;
- Educate customers about reducing outdoor water use with the Rightscape program;
- Provide students in the IRWD service area with learning opportunities regarding water supply, water reliability and water use efficiency programs. Promote water education programs to schools in the IRWD service area; and
- Develop and implement next phase of customer drought outreach program.

COMMUNITY OUTREACH AND MEDIA PROGRAMS

- Refine, update and create effective multi-pronged social media outreach programs aimed at providing extended information channels for IRWD customers, the media, business partners, IRWD employees and other government entities;
- Develop and implement tap water outreach program;
- Enhance communications with customers through a targeted media outreach and public communications program including consistent and timely updates for construction and maintenance projects; and
- Provide enhanced customer outreach initiatives based on customer feedback programs.

BUSINESS OUTREACH PROGRAM

- Develop strong working relationships with the business community by hosting a series of meetings for area businesses and those who are interested in working with IRWD.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
730	Regular Labor	0	267,138	664,700	681,500	16,800
730	Overtime Labor	0	13,804	29,500	27,000	(2,500)
730	Contract Labor	0	65,642	0	0	0
730	Operating Supplies	0	1	700	700	0
730	Printing	0	17,043	62,800	62,800	0
730	Postage	0	0	200	200	0
730	Office Supplies	0	2,261	6,000	6,000	0
730	Personnel Training	0	3,732	12,400	12,400	0
730	Other Professional Fees	0	792,948	728,100	1,599,800	871,700
730	Mileage Reimbursement	0	58	0	0	0
Total Public Affairs		0	1,162,627	1,504,400	2,390,400	886,000



REGULATORY COMPLIANCE

OPERATING BUDGET SUMMARY

Program Description

The Regulatory Compliance group plans and manages District-wide programs to ensure the District complies with all environmental regulations governing water, sewage and groundwater discharges. This includes the collection of all required samples of water, sewage and recycled water from distribution systems, treatment facilities, storage reservoirs, wetland operations and customer facilities to ensure quality services and products are served to our customers. Regulatory Compliance also responds to customer service issues and concerns regarding water quality.

In addition to water-related programs, Regulatory Compliance staff manages other regulatory compliance programs such as Hazardous Waste, Underground Storage Tanks, Aboveground Petroleum Storage Tanks, Universal Waste, Biosolids Compliance and the Air Quality Program, including MWRP's Title V Permit. The regulatory mandated Fats, Oils and Grease (FOG) Program that requires the District to control FOG from entering its collections system is also managed by Regulatory Compliance staff. The FOG program consists of permitting, plan checks, inspections and enforcement of Food Service Establishments (FSE) in the District's service area. Regulatory Compliance participates with the Orange County Sanitation District and South Orange County Wastewater Authority to co-manage the implementation of the District's Industrial Pretreatment Program. Regulatory Compliance is an active participant in representing the District at the Southern California Alliance of Publicly Owned Treatment Works (SCAP) and the California Association of Sanitation Agencies Regulatory Work Group (CASA RWG) Committee meetings for Air and Water Issues.

Major Goals

- Ensure the District operates in full compliance with all applicable federal, state and local environmental, water and air quality laws and regulations;
- Respond to Water Quality Customer Contacts and investigate the customer's concern;
- Determine required monitoring programs to address all regulatory requirements for potable, sewage and recycled water;
- Coordinate with other agencies with respect to Industrial Waste Pretreatment Programs and other projects;
- Research and provide recommendations for an IRWD implemented Industrial Waste Pretreatment Program;
- Evaluate requirements and options for long-term operation of the Fats, Oils and Grease (FOG) Program;
- Plan, organize and supervise the work of the Compliance Monitoring Group;



REGULATORY COMPLIANCE

OPERATING BUDGET SUMMARY

- Collect potable system distribution and storage samples to comply with the Department of Drinking Water (DDW) monitoring plan and to proactively identify any developing quality issues in the system;
- Collect MWRP and LAWRP samples to assure proper operation of the treatment facilities and compliance with each facilities' NPDES permit;
- Assist and provide resources to other departments with environmental, water and air permitting issues;
- Ensure compliance with all non-major and Title V air permit requirements for testing and reporting;
- Participate in industry stakeholder groups for air, water and biosolids regulatory issues;
- Prepare and submit new and renewal permit applications for routine activities, equipment and projects; and
- Assist in the development of environmental quality projects and coordinate research activities.

Irvine Ranch Water District
Consolidated Operating Expense Budget for FY 2016-17

Water Operations		2014-15 Actual	2015-16 Actual 12/31/15	2015-16 Orig Budget	2016-17 Prop Budget	Incr/(Decr)
Dept No	Expense Name					
740	Regular Labor	0	342,367	645,900	680,585	27,745
740	Regular Labor	0	0		13,900	13,900
740	Overtime Labor	0	24,936	57,600	76,770	19,170
740	Operating Supplies	0	30,072	52,100	61,100	9,000
740	Postage	0	109	0	800	800
740	Permits, Licenses and Fees	0	343,670	388,450	504,245	115,795
740	Office Supplies	0	97	0	800	800
740	Rep & Maint Other Agencies	0	0	2,000	2,000	0
740	Rep & Maint IRWD	0	81,299	286,500	256,500	(30,000)
740	Engineering Fees	0	28,914	170,000	162,300	(7,700)
740	Personnel Training	0	1,894	3,500	10,000	6,500
740	Other Professional Fees	0	673	1,600	2,400	800
740	Safety	0	0	2,000	2,000	0
Total Regulatory Compliance		0	854,031	1,609,650	1,773,400	156,810



GENERAL PLANT

SUMMARY*

	Fiscal Year 2016-17	Fiscal Year 2015-16	Increase (Decrease)	% Inc/(Dec)
Information Systems	\$ 696,700	\$ 1,141,400	\$ (444,700)	-38.96%
Transportation Equipment	563,000	543,100	19,900	3.66%
Laboratory Equipment	280,000	280,535	(535)	-0.19%
Office Furniture and Equipment	119,500	8,000	111,500	
Equipment	3,847,900	871,700	2,976,200	341.42%
Structures/Improvements- Sand Canyon.MWRP	72,500	50,000	22,500	45.00%
Sub-Total	\$5,579,600	\$2,894,735	\$2,684,865	48.12%
Less: Vehicle Salvage Value	(23,500)	(22,000)	(1,500)	-
Total General Plant	\$ 5,556,100	\$ 2,872,735	\$ 2,683,365	48.30%

Fiscal Year 2016-17

Funded by User Charges	\$4,466,200	80.38%
Funded by Capital Funds	1,009,900	18.18%
Funded by Overallocation Rev	80,000	1.44%
Total Fiscal Year 2015-16	\$5,556,100	100.00%

Fiscal Year 2015-16

Funded by User Charges	\$ 1,514,635	52.72%
Funded by Capital Funds	1,061,100	36.94%
Funded by Overallocation Rev	297,000	10.34%
Total Fiscal Year 2015-16	\$2,872,735	100.00%

* General Plant is being moved to the Capital Budget beginning with FY 2016-17. The asset listing detail is included in the Capital Budget book. Staff will continue to include a summary that identifies the funding source in the Operating Budget.

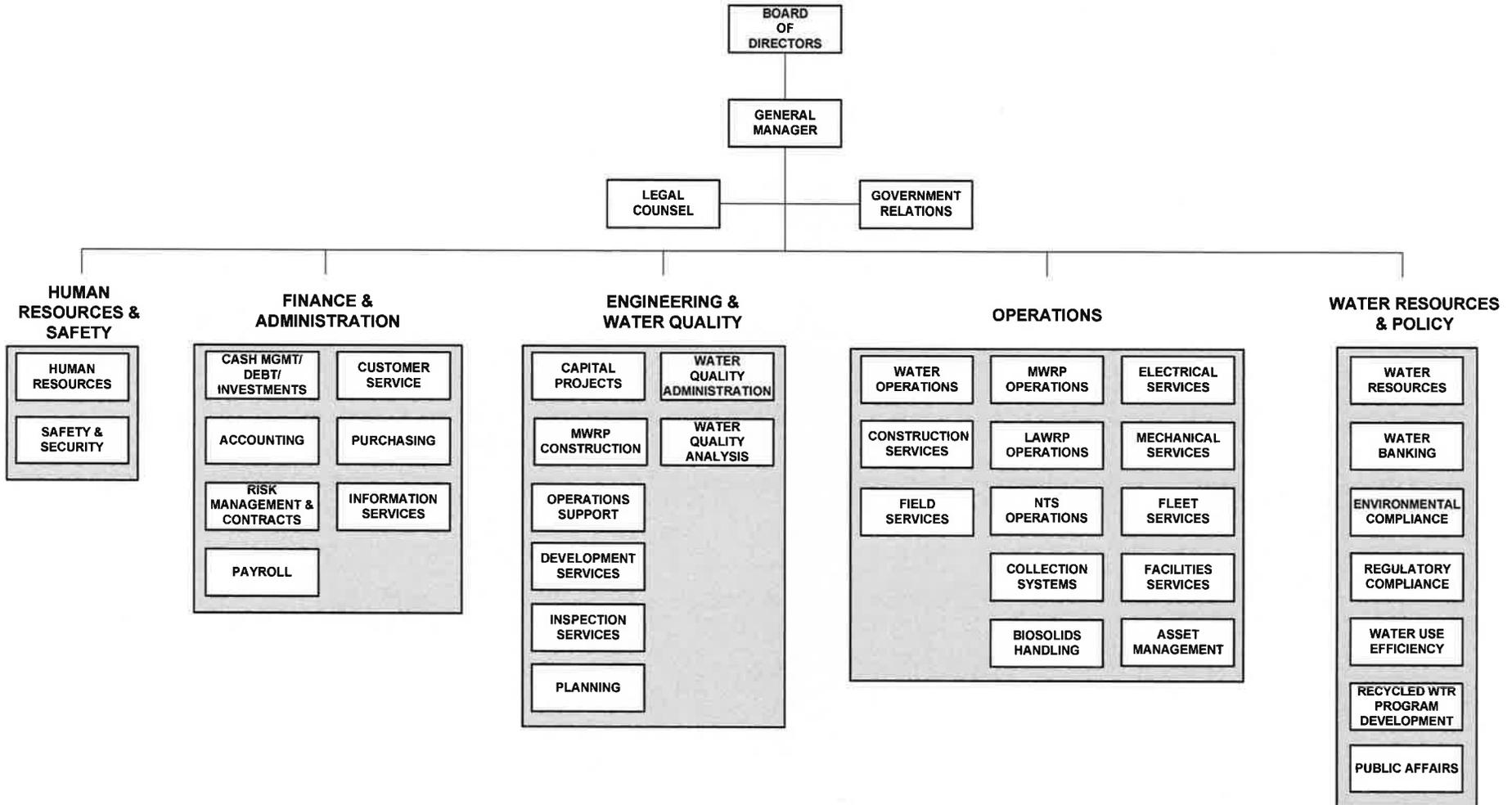


GENERAL PLANT

ANALYSIS

Description	Administration	Finance & Administrative Services	Engineering & Planning	Operations	Water Policy	Total
Information Systems and Technology	\$ -	\$ 696,700	\$ -	\$ -	\$ -	\$ 696,700
Laboratory Equipment				56,000	224,000	280,000
Other General Plant						-
Office Furniture				119,500		119,500
Work Class Equipment				3,847,900		3,847,900
Transportation				563,000		563,000
Structures/Improvements - Sand Canyon/MWRP				72,500		72,500
Subtotal	\$ -	\$ 696,700	\$ -	\$ 4,658,900	\$ 224,000	\$ 5,579,600
Less Vehicle Salvage Value	-	-	-	(23,500)	-	(23,500)
Total Fiscal Year 2016-17	\$ -	\$ 696,700	\$ -	\$ 4,635,400	\$ 224,000	\$ 5,556,100
 Total Fiscal Year 2015-16	 68,000	 486,000	 297,835	 690,433	 -	 1,542,268
 Increase/(Decrease)	 \$ (68,000)	 \$ 210,700	 \$ (297,835)	 \$ 3,944,967	 \$ 224,000	 \$ 4,013,832

**Irvine Ranch Water District
Organizational Chart
(By Function)
Fiscal Year 2016-17**





LABOR

THREE YEAR PERSONNEL COMPARISON

Department	Authorized Positions		
	2014-15	2015-16	2016-17
Administration			
Number of Positions	11.0	14.0	15.0
% change from prior year	(8.3) %	27.3 %	7.1 %
Finance and Administrative Services			
Number of Positions	71.0	75.0	80.0
% change from prior year	0.0 %	5.6 %	6.7 %
Engineering			
Number of Positions	38.0	40.0	42.0
% change from prior year	(7.3) %	5.3 %	5.0 %
Water Quality			
Number of Positions	28.0	20.0	20.0
% change from prior year	7.7 %	(28.6) %	0.0 %
Water Policy			
Number of Positions	27.0	34.0	36.0 *
% change from prior year	3.8 %	25.9 %	5.9 %
Water Operations			
Number of Positions	70.0	71.0	72.0 **
% change from prior year	1.4 %	1.4 %	1.4 %
Recycling Operations			
Number of Positions	43.0	48.0	50.0
% change from prior year	7.5 %	11.6 %	4.2 %
Maintenance			
Number of Positions	48.0	50.0	52.0
% change from prior year	26.3 %	4.2 %	4.0 %
Total Number of Positions	336.0	352.0	367.0
Number of Changed Positions	13.0	16.0	15.0
% Change From Prior Year	4.0 %	4.8 %	4.3 %

*For FY 2016-17, one position is budgeted to start October 1, one position would start December 1 and two positions would start January 2017.

** Operations Administration is part of Water Operations.



LABOR

SUMMARY OF SALARIES AND WAGES

(in thousands)

	Total	Administration	Finance & Administrative Services	Engineering	Water Quality	Water Policy	Water Operations	Recycling Operations	Maintenance
Current Authorized:									
Gross Pay	\$28,988	\$1,498	\$5,968	\$4,084	\$1,635	\$3,087	\$5,201	\$3,598	\$3,918
Annual Increase	1,495	76	293	209	91	104	296	193	234
Sub-Total Regular Salaries & Wages	30,484	1,574	6,260	4,293	1,727	3,191	5,497	3,791	4,152
New Positions:									
Gross Pay	774	52	225	83	0	98	69	89	158
Total Regular Salaries & Wages	31,258	1,625	6,486	4,376	1,727	3,289	5,566	3,880	4,310
Insurance and Benefits	7,301	380	1,515	1,022	403	768	1,300	906	1,007
Employment Tax & PERS Contributions	9,094	473	1,887	1,273	502	957	1,619	1,129	1,254
Total Regular Salaries & Wages, health Insurance and employment taxes	\$47,653	\$2,478	\$9,888	\$6,671	\$2,632	\$5,014	\$8,485	\$5,915	\$6,571
Employee Count:	367	15	80	42	20	36	72	50	52

Regular Salaries and Wages	
FY 2015-16 Labor	\$29,085
Adjustment for Vacancies	112
Additions	773
Promotions	309
COLA	495
Merit/Other	484
FY 2016-17 Labor	\$31,258



BENEFITS AND EMPLOYMENT TAX

HEALTH INSURANCE AND EMPLOYER CONTRIBUTIONS

(in thousands)	<u>FY 2015-16</u>	<u>FY 2016-17</u>	<u>Change</u>
Insurance and Benefits			
Health Ins Actives	\$4,447	\$5,019	\$572
Dental Premiums	407	419	12
Wrkrs Comp Premiums	645	708	63
Wrkrs Comp Paid Claims	400	650	250
Life Ins Actives	198	185	(13)
LT Disability Premiums	96	104	8
Medical Premiums - Retirees	111	123	12
Vision Benefit Premiums	76	80	4
Life Ins Retirees	12	13	1
	<u>\$6,392</u>	<u>\$7,301</u>	<u>\$909</u>
Employment Tax and PERS			
PERS Employer Portion	\$5,333	\$6,033	\$700
PERS In Excess Of ARC	1,940	1,781	(159)
401A Employer Match Portion	698	733	35
401A Employer Direct Portion	0	60	60
Medicare Tax	407	437	30
St Unemployment Tax	50	50	0
	<u>\$8,428</u>	<u>\$9,094</u>	<u>\$666</u>

**FY 2016/17 Budget
Summary of Proposed Budgeted Personnel Changes**

Proposed Changes to Existing Budgeted Positions						
Dept	Job Title	Current Sal Grade	Proposed Action	Proposed Job Title	Proposed Sal Grade	Salary Costs
210	Accounting Clerk	16.N	Reclass 1 Position	Accountant	27.N	\$6,360
220	Customer Service Field Tech	16.N	Reclass 1 Position	Sr. Customer Service Field Tech	21.N	\$3,000
250	Applications Analyst	U15.E	Reclass 1 Position	Sr. Applications Analyst	U18.E	\$6,720
300	Engineering Tech III	29.N	Upgrade 1 Position	Associate Engineer	14.E	\$3,600
300	Construction Inspection Supervisor	U33.N	Upgrade 1 Position	Construction Inspection Supervisor	U34.N	\$1,980
300	Engineering Technician I	20.N	Upgrade 1 Position, Title Change	Development Services Supervisor	10.E	\$0
300	Office Specialist	15.N	Title Change 2 positions	Development Services Specialist	15.N	\$0
300	Engineering Technician II	25.N	Title Change only	GIS Technician II	25.N	\$0
300	Engineering Technician III	29.N	Title Change only	GIS Technician III	29.N	\$0
425	Assistant Field Services Manager	U15.E	Reclass 1 Position	Field Services Manager	U17.E	\$4,500
430	Construction & Field Services Manager	U17.E	Title Change only	Construction Services Manager	U17.E	\$0
515	Natural Resources Manager	U16.E	Upgrade 1 Position	Natural Resources Manager	U17.E	\$2,220
570	Collection Systems Manager	U16.E	Upgrade 1 Position	Collection Systems Manager	U17.E	\$2,220
570	Collection Systems CCTV Tech II	21.N	Title Change only	Collection Systems CCTV Tech	21.N	\$0
710	Water Use Efficiency Manager	U16.E	Upgrade 1 Position, Title Change	Water Efficiency Manager	U17.E	\$2,280
710	Water Use Efficiency Analyst	31.N	Title Change only	Water Efficiency Analyst	31.N	\$0
710	Sr. Water Use Efficiency Specialist	29.N	Title Change only	Sr. Water Efficiency Specialist	29.N	\$0
710	Water Use Efficiency Specialist	24.N	Title Change only	Water Efficiency Specialist	24.N	\$0
730	Public Affairs Specialist	29.N	Reclass 2 Positions	Graphic Design Specialist	30.N	\$2,100
730	Executive Secretary	U22.N	Title Change only	Public Affairs Assistant	22.N	\$0
805	Office Specialist	15.N	Reclass 1 Position	Sr. Office Specialist	19.N	\$2,280
Subtotal						\$37,260

Proposed New Positions			
Dept	Job Title	Sal Grade	Salary Costs
130	Safety Assistant	U19.N	\$51,816
220	Customer Service Specialist I	13.N	\$45,048
220	Customer Service Specialist I	13.N	\$45,048
220	Customer Service Specialist II	17.N	\$49,464
220	Mail Coordinator	6.N	\$38,592
240	Office Specialist	15.N	\$46,128
300	Construction Inspector II	28.N	\$42,791
300	GIS Technician I	20.N	\$39,969
425	Water Maintenance Tech III	26.N	\$69,228
570	Collection Systems CCTV Tech	21.N	\$59,856
570	Collection Systems Tech II	20.N	\$29,070
710	Water Efficiency Specialist	24.N	\$65,316
710	Water Efficiency Specialist	24.N	\$32,658
840	Maintenance Mechanic	22.N	\$61,644
840	Assistant Asset Manager	U15.E	\$96,696
Subtotal			\$773,324

To be filled 12/2016

To be filled 10/2016

To be filled 1/2017

To be filled 1/2017



LABOR

PROPOSED LABOR CHANGES

Proposed Personnel Budget Changes Reflected in the FY 2016/17 Operating Budget

Title and Salary Grade Changes for Existing Positions/Job Titles:

Finance (210):

Accounting Clerk (Salary Grade 16.N) ➡ Accountant (Salary Grade 27.N)

This position reclass is being requested to more properly reflect the higher level duties and responsibilities of the position.

Customer Service (220):

Customer Service Field Technician (Salary Grade 16.N) ➡ Sr. Customer Service Field Technician (Salary Grade 21.N)

This position reclass is being requested to more properly reflect the higher level duties and responsibilities of the position.

Information Services (250):

Applications Analyst (Salary Grade U15.E) ➡ Sr. Applications Analyst (Salary Grade U18.E)

This position reclass is being requested to more properly reflect the duties and responsibilities of the position and meet the business needs of the department.

Engineering (300):

Engineering Technician III (Salary Grade 29.N) ➡ Associate Engineer (Salary Grade 14.E)

This position upgrade is being requested to prepare for recruitment at the higher level to meet needs within the department.

Construction Inspection Supervisor (From Salary Grade U33.N to Salary Grade U34.N)

This upgrade is being requested to more properly reflect the increased duties and new responsibilities of this position.

Engineering Technician I (Salary Grade 20.N) ➡ Development Services Supervisor (Salary Grade 10.E)

This position reclass and title change is being requested to more properly reflect the specific duties and responsibilities of the position.



LABOR

PROPOSED LABOR CHANGES

Office Specialist (Salary Grade 15.N) ➔ Development Services Specialist (Salary Grade 15.N) (2 positions)

This title change is being requested to more properly reflect the specific duties and responsibilities of this position.

Engineering Technician II (Salary Grade 25.N) ➔ GIS Technician II (Salary Grade 25.N)

This title change is being requested to more properly reflect the duties and responsibilities of this position.

Engineering Technician III (Salary Grade 25.N) ➔ GIS Technician III (Salary Grade 25.N)

This title change is being requested to more properly reflect the duties and responsibilities of this position.

Field Services (425):

Assistant Field Services Manager (Salary Grade U15.E) ➔ Field Services Manager (Salary Grade U17.E)

This position reclass is being requested to more properly reflect the higher level duties and responsibilities of the position.

Construction Services (430):

Construction & Field Services Manager (Salary Grade U17.E) ➔ Construction Services Manager (Salary Grade U17.E)

This title change is being requested to more properly reflect the duties and responsibilities of this position due to the creation of the Field Services Manager position.

Natural Treatment Systems (515):

Natural Resources Manager (From Salary Grade U16.E to Salary Grade U17.E)

This upgrade is being requested to more properly reflect the duties and responsibilities of this position and to maintain appropriate internal equity.

Collection Systems (570):

Collection Systems Manager (From Salary Grade U16.E to Salary Grade U17.E)

This upgrade is being requested to more properly reflect the duties and responsibilities of this position and to maintain appropriate internal equity.



LABOR

PROPOSED LABOR CHANGES

Collection Systems CCTV Technician II (Salary Grade 21.N) ➔ Collection Systems CCTV Technician (Salary Grade 21.N)

This title change is being requested to better reflect the job series.

Water Resources and Policy (710):

Water Use Efficiency Manager (Salary Grade U16.E) ➔ Water Efficiency Manager (Salary Grade U17.E)

This position upgrade and title change is being requested to more properly reflect the specific duties and responsibilities of the position and to maintain appropriate internal equity.

Water Use Efficiency Analyst (Salary Grade 31.N) ➔ Water Efficiency Analyst (Salary Grade 31.N)

This title change is being requested to simplify the job title.

Sr. Water Use Efficiency Specialist (Salary Grade 29.N) ➔ Sr. Water Efficiency Specialist (Salary Grade 29.N)

This title change is being requested to simplify the job title.

Water Use Efficiency Specialist (Salary Grade 24.N) ➔ Water Efficiency Specialist (Salary Grade 24.N)

This title change is being requested to simplify the job title.

Public Affairs (730):

Public Affairs Specialist (Salary Grade 29.N) ➔ Graphic Design Specialist (Salary Grade 30.N) (2 positions)

This position reclass is being requested to more properly reflect the higher level duties and responsibilities of the position.

Executive Secretary (Salary Grade U22.N) ➔ Public Affairs Assistant (Salary Grade 22.N)

This title change is being requested to more properly reflect the duties and responsibilities of this position and to include it in the Public Affairs job series.

Water Operations Administration (805):

Office Specialist (Salary Grade 15.N) ➔ Sr. Office Specialist (Salary Grade 19.N)

This position reclass is being requested to more properly reflect the higher level duties and responsibilities of the position.



LABOR

PROPOSED LABOR CHANGES

New Positions:

Safety & Security (130):

Safety Assistant (Salary Grade U19.N) – one position

This position is required to manage the increased workload of the Safety department including documenting and recording safety training, maintaining safety logs. This position is currently staffed by temporary labor.

Customer Service (220):

Customer Service Specialist II (Salary Grade 17.N) – one position

This position is required to reduce customer wait times and to handle higher level duties including commercial billing calls, field problems and increased customer contact due to growing customer base. This position is currently staffed by temporary labor.

Customer Service Specialist I (Salary Grade 13.N) – two positions

These positions are required to reduce customer wait times due to increased call volume resulting from growing customer base and other causes. These positions are currently staffed by temporary labor.

Mail Coordinator (Salary Grade 6.N) – one position

This position is required due to increased workload. This position is currently staffed by temporary labor.

Purchasing (240):

Office Specialist (Salary Grade 15.N) – one position

This position is required due to an increase in workload involved in supporting a growing number of District staff and departments, implementing and maintaining Oracle EBS, and supporting Purchasing and District programs. This position is currently staffed by temporary labor.

Engineering (300):

Construction Inspector II (Salary Grade 28.N) – one position

This position is required due to an increase in workload in the inspection services group resulting from increased development that is forecast to continue for several years. The number of active construction projects managed by the inspection services group has more than doubled in the past two and a half years.



LABOR

PROPOSED LABOR CHANGES

GIS Technician I (Salary Grade 20.N) – one position

This position is needed due to an increase in workload involved resulting from increased development that is forecast to continue for several years. This position is currently staffed by temporary labor.

Field Services (425):

Water Maintenance Technician III (Salary Grade 26.N) – one position

This position is required to reestablish the primary responder role which was eliminated in FY14/15 with the creation of an additional Water Maintenance Supervisor filled by the former primary responder. The function is currently distributed among various staff members which is proving to be problematic and inefficient.

Collection Systems (570):

Collection Systems CCTV Technician (Salary Grade 21.N) – one position

This position is required due to growth of the sewer system and the need to meet the regulatory requirements in the Sewer System Management Plan. A new CCTV vehicle is being purchased and this additional position will be needed to operate the new equipment.

Collection Systems Technician II (Salary Grade 20.N) – one position

This position is required due to growth of the sewer system and the need to meet the regulatory requirements in the Sewer System Management Plan. A new vector truck is being purchased and this additional position will be needed to operate the new equipment. This position should be added effective 1/1/2017 ahead of the delivery of the new vehicle.

Water Resources and Policy (710):

Water Efficiency Specialist (Salary Grade 27.N) – two positions (one for 1/1/2017)

These positions are required to continue to provide a high level of support and water efficiency assistance to customers. One position would focus primarily on non-residential landscape customers. The number of landscape customers has increased significantly and the District has also brought the development and presentation of landscape workshops in-house. These workshops were formerly outsourced.

Maintenance Administration (810):

Assistant Asset Manager (Salary Grade U15.E) – one position

This position will be responsible for high level administrative and technical duties related to the effective coordination of the District's Enterprise Asset Management program.



LABOR

PROPOSED LABOR CHANGES

Mechanical Services (840):

Maintenance Mechanic (Salary Grade 22.N) – one position

This position was originally reviewed by the E & O Committee as part of the Biosolids and Energy Recovery facilities staffing plan. This position will also be used at the Baker Water Treatment facilities.



Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used both inside and outside the home each month. It is based on the cost of local and imported water.
- **Fixed Service Charges** do not vary each month and include costs for operations, maintenance and infrastructure. There are separate service charges for water and sewer service.

Commodity Charge:

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17, IRWD is proposing a commodity charge increase shown in the chart below. The Low Volume rate tier rewards customers who use the least amount of water, which reduces the need for IRWD to purchase more expensive water supplies. The Base rate tier is for customers that stay within their monthly water budget allocation. The Inefficient and Wasteful tiers are for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (hundred cubic feet) and is equal to 748 gallons of water.

Proposed Residential Commodity Rates				
Tier	% of Monthly Water Budget Residential with Outdoor	% of Monthly Water Budget Multi-Family with No Outdoor	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 -40 %	0-60%	\$ 1.11	\$ 1.21
Base Rate	41 -100%	61-100%	\$ 1.62	\$ 1.65
Inefficient	101-130%	101-120%	\$ 3.92	\$ 4.01
Wasteful	131+	121+	\$14.53	\$12.01

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the low volume and base rate. The rate structure uses property-specific allocations and tiered pricing to provide an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget that provides for a reasonable amount of water for indoor and outdoor use. It can be adjusted by a variance for more people living in the home, medical needs, additional irrigated landscape area or other special circumstances.
- The monthly water commodity charge is calculated based upon how much water is used
- If a customer goes over their monthly water budget, the water is billed at increasingly higher tiers based on IRWD's cost to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the higher tiers.

Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website

To find out more information on the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated and to use the IRWD budget based rate calculator, please visit the IRWD website at www.irwd.com. The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill. Provide your account number from a recent bill and you can see how your bill will be recalculated using the proposed rates, allocations and tiers, and any variances you have on your account. Sample bills are also provided as well as technical water budget formulas. Free internet access is available Monday – Friday from 8am to 5pm in the IRWD lobby at 15600 Sand Canyon Avenue, Irvine, CA.

Water & Sewer Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water or sewer use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

Water Fixed Service Charges: The fixed monthly water service charges for the average residential customer are used to pay for operations and maintenance costs, including inevitable infrastructure enhancements and replacements. The charge is based on the size of your meter. No changes to the current fixed monthly charges are proposed.

Proposed Water Service Fixed Monthly Charges for System Operation and Maintenance		
Residential meter size – homes, condos, apartments	Current Rates	Proposed Rates
5/8 x 3/4"	\$10.30/meter	\$10.30/meter
3/4" disc meter	\$15.45/meter	\$15.45/meter
1" disc meter	\$25.75/meter	\$25.75/meter
1 1/2" disc meter	\$51.50/meter	\$51.50/meter
2" disc meter	\$82.40/meter	\$82.40/meter
2" turbo meter	\$108.15/meter	\$108.15/meter
Residential master meter (shared) apartments and condominiums 5/8 x 3/4" meter	\$10.30/meter	\$10.30/meter
The current amount for your meter size appears on your bill. Customers that remain in the low volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system. Customers that remain in the low volume tier for 9 out of 12 months will receive a \$2.00 credit per month which will be itemized on each bill. New customers do not receive this credit unless they have been with the District for a full calendar year.		

Sewer Fixed Service Charges: The proposed fixed monthly sewer service charges for the average residential customer are used to pay for operations and maintenance costs including inevitable infrastructure enhancements and replacements. The tiered sewer service fixed charge is based on the 3 months with the lowest potable water usage from the prior calendar year. New customers are billed at the highest tier until they have established a full calendar year of usage history.

Proposed Changes for Sewer Service Fixed Monthly Charges for System Operation and Maintenance		
Usage	Current Rates	Proposed Rates
Average water usage exceeds 10 ccfs per month	\$24.05/month	\$25.75/month
Average water usage falls between 5 and 10 ccfs	\$21.85/month	\$23.20/month
Average water usage falls below 5 ccfs	\$18.55/month	\$19.30/month
Collection Service Charge (based on flows)	\$7.85/month	\$8.40/month

Pumping Surcharges: A pumping surcharge will be added to the commodity rate for those customers who reside at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If you live in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Proposed Changes to Pumping Surcharges, Set-up and Reconnection Fees		
Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC, the replenishment charges paid by IRWD to OCWD for pumping groundwater, and the cost for regional treatment of sewage paid by IRWD to the Orange County Sanitation District (OCSD). IRWD has no control over the amounts set by MWD, MWDOC, OCWD and OCSD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used each month. It is based on the cost of local and imported water.
- **Fixed Service Charges** do not vary each month and include costs for operations, maintenance and infrastructure. There are separate service charges for water and sewer service

Commodity Charge: Proposed Changes to the Cost of Water

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in one or two tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17, IRWD is proposing a commodity charge increase shown in the chart below. The Base Rate tier rewards customers that stay within their monthly water budget allocation. The Wasteful tier is for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (hundred cubic feet) and is equal to 748 gallons of water.

Proposed Commercial Commodity Rates:

Proposed Potable Commercial Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	0 -100 %	\$1.62	\$1.65
Wasteful	101+	\$14.53	\$12.01

Proposed Recycled Water Commercial Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	0 -100 %	\$0.97	\$1.03
Wasteful	101+	\$5.79	\$6.05

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the base rate. The rate structure uses business-specific allocations and tiered pricing to provide an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget that provides for a reasonable amount for your business needs.
- The monthly water commodity charge is calculated based upon how much water is used
- If a customer goes over their monthly water budget, the water is billed at the highest tier based on IRWD's cost to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the highest tier.

Monthly Water Budget Information Available on Website

To find out more information on the rate tiers, please visit the IRWD website at www.irwd.com. If you would like additional information regarding the monthly water budget for your property, please contact customer service at 949 453-5300.

Water & Sewer Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water or sewer use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

Water Fixed Service Charges: The fixed monthly water service charges are used to pay for operations and maintenance costs, including inevitable infrastructure enhancements and replacements. The charge is based on the size of your meter. The proposed fixed monthly charges are proposed below. The current amount for your meter size appears on your bill. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system.

Proposed Water Service Charges		
Meter Type	FY 2015-16 Rates	FY 2016-17 Rates
5/8" x 3/4" disc	\$10.30/meter	\$10.30/meter
3/4" disc	\$15.45/meter	\$15.45/meter
1" disc	\$25.75/meter	\$25.75/meter
1 1/2" disc	\$51.50/meter	\$51.50/meter
2" disc	\$82.40/meter	\$82.40/meter
3" compound	\$164.80/meter	\$164.80/meter
4" compound	\$309.00/meter	\$309.00/meter
6" compound	\$515.00/meter	\$515.00/meter
8" compound	\$991.40/meter	\$991.40/meter
10" compound	\$1,133.00/meter	\$1,133.00/meter
14" compound	\$1,802.50/meter	\$1,802.50/meter
2" turbo	\$108.15/meter	\$108.15/meter
3" turbo	\$247.20/meter	\$247.20/meter
4" turbo	\$515.00/meter	\$515.00/meter
6" turbo	\$1,030.00/meter	\$1,030.00/meter
8" turbo	\$1,802.50/meter	\$1,802.50/meter
10" turbo	\$2,163.00/meter	\$2,163.00/meter
2" magnetic	\$160.15/meter	\$160.15/meter
4" magnetic	\$640.15/meter	\$640.15/meter
6" magnetic	\$1,440.45/meter	\$1,440.45/meter
8" magnetic	\$2,561.60/meter	\$2,561.60/meter
6" propeller	\$695.25/meter	\$695.25/meter
8" propeller	\$927.00/meter	\$927.00/meter
10" propeller	\$1,236.00/meter	\$1,236.00/meter
12" or 14" propeller	\$1,738.15/meter	\$1,738.15/meter
16", 18" or 20" propeller	\$2,935.50/meter	\$2,935.50/meter
4" Omni F2		\$640.15/meter
6" Omni F2		\$1,440.45/meter
8" Omni F2		\$2,561.60/meter
10" Omni F2		\$2,935.50/meter

Sewer Fixed Service Charges: The fixed monthly sewer service charge is proposed to increase from \$24.05 to \$25.75 per month. Additional fixed monthly charges for the operation and maintenance of the system are based on the volume of water used and treated in excess of 10ccf per month and are shown in the table below.

Proposed Changes for Sewer Quantity and Industrial Waste Charges		
Component	FY 2015-16 Rates	FY 2016-17 Rates
Sewer Quantity Charge	\$2.56 per ccf	\$2.74 per ccf
Collection Quantity Charge	\$0.78 per ccf	\$0.84 per ccf
Industrial Waste Charge	\$0.125 per ccf	\$0.134 per ccf
Collection Service Charge (based on flows)	\$0.785 per ccf	\$0.840 per ccf
Special Purchase Discharge Charge	Up to \$1,347.15 per million gallons	Up to \$1,377.56 per million gallons

Pumping Surcharges, Set-up and Reconnection Fees: A pumping surcharge is added to the commodity rate of customers at higher elevations which requires the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If your business is in an area affected by a pumping surcharge, it is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Proposed Changes to Pumping Surcharges, Set-up and Reconnection Fees		
Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00
Private Fire Line Service Fee	\$13.60 per diameter inch	\$13.60 per diameter inch

Fire Hydrant Charge	\$23.70/month per hydrant	\$23.70/month per hydrant
---------------------	---------------------------	---------------------------

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC, the replenishment charges paid by IRWD to OCWD for pumping groundwater, and the cost for regional treatment of sewage paid by IRWD to the Orange County Sanitation District (OCSD). IRWD has no control over the amounts set by MWD, MWDOC, OCWD and OCSD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Water Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar service in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used each month. It is based on the cost of local and imported water
- **Fixed Service Charge** does not vary each month and include costs for operations, maintenance and infrastructure.

Commodity Charge:

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17 IRWD is proposing a commodity charge increase shown in the chart below. The Low Volume rate tier rewards customers who use the least amount of water, which reduces the need for IRWD to purchase more expensive water supplies. The Base rate tier is for customers that stay within their monthly water budget allocation. The Inefficient and Wasteful tiers are for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (one hundred cubic feet) and is equal to 748 gallons of water.

Proposed Potable Non Agricultural/Landscape Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 - 60 %	\$1.64	\$1.80
Base Rate	61 -100%	\$2.39	\$2.46
Inefficient	101-160%	\$3.60	\$4.01
Wasteful	161+	\$15.20	\$12.01

Proposed Non-Potable & Recycled Non Agricultural / Landscape Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 -40 %	\$1.08	\$1.11
Base Rate	41 -100%	\$1.37	\$1.46
Inefficient	101-130%	\$1.52	\$2.41
Wasteful	131+	\$5.79	\$6.05

Proposed Agricultural Commodity Rates:

Proposed Agricultural Potable Commodity Rates		
Tier	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	\$2.77	\$2.88

Proposed Agricultural Non-Potable / SAC Commodity Rates		
Type	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Non-Potable	\$1.50	\$2.06
SAC Water	\$1.72	\$2.07

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the low volume and base rate. This rate structure uses property-specific allocations and tiered pricing to provide customers an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget (allocation) that provides for a reasonable amount of water based on the irrigated landscape area.
- The monthly water commodity charge is based upon how much water is used.
- If a customer goes over their monthly water budget, the water is billed at increasingly higher tiers based on IRWD's cost of service to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the highest tiers.

Landscape Monthly Potable & Recycled Water Allocations

Type	Proposed Monthly Allocation Basis
Irrigated with Potable Water	60% warm-season turf + 40% drought tolerant landscape
Irrigated with Recycled Water	100% warm-season turf

Please visit IRWD.com for specific details about the calculation

Proposed Efficiency Factor for Functional Turf & Recycled Water Allocations

The proposed water allocation for recycled water use and for functional turf irrigated with potable water, such as a sport field will be based on a 75% irrigation efficiency factor instead of the current 71% efficiency factor. Other components of these allocations remain unchanged. This will result in a slight reduction in your monthly water allocation. Please visit IRWD.com and use the rate calculator to see how this will affect your monthly bill.

Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website

To find out more information on the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated and to use the IRWD budget based rate calculator, please visit the IRWD website at www.irwd.com. The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill. Provide your account number from a recent bill and you can see how your bill will be recalculated using the proposed rates, allocations and tiers. Free internet access is available Monday – Friday from 8am to 5pm in the IRWD lobby at 15600 Sand Canyon Avenue, Irvine, CA.

Water Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

The charge is based on the size of your meter. The current amount for your meter size appears on your bill. Customers that remain in the low volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system. Potable customers that remain in the low volume tier for 9 out of 12 months will receive a \$2.00 credit per month which will be itemized on each bill. New customers do not receive this credit unless they have been with the District for a full calendar year.

Proposed Water Service Charges		
Meter Type	FY 2015-16 Rates	FY 2016-17 Rates
5/8" x 3/4" disc	\$10.30/meter	\$10.30/meter
3/4" disc	\$15.45/meter	\$15.45/meter
1" disc	\$25.75/meter	\$25.75/meter
1 1/2" disc	\$51.50/meter	\$51.50/meter
2" disc	\$82.40/meter	\$82.40/meter
3" compound	\$164.80/meter	\$164.80/meter
4" compound	\$309.00/meter	\$309.00/meter
6" compound	\$515.00/meter	\$515.00/meter
8" compound	\$991.40/meter	\$991.40/meter
10" compound	\$1,133.00/meter	\$1,133.00/meter
14" compound	\$1,802.50/meter	\$1,802.50/meter
2" turbo	\$108.15/meter	\$108.15/meter
3" turbo	\$247.20/meter	\$247.20/meter
4" turbo	\$515.00/meter	\$515.00/meter
6" turbo	\$1,030.00/meter	\$1,030.00/meter
8" turbo	\$1,802.50/meter	\$1,802.50/meter
10" turbo	\$2,163.00/meter	\$2,163.00/meter
2" magnetic	\$160.15/meter	\$160.15/meter

4" magnetic	\$640.15/meter	\$640.15/meter
6" magnetic	\$1,440.45/meter	\$1,440.45/meter
8" magnetic	\$2,561.60/meter	\$2,561.60/meter
6" propeller	\$695.25/meter	\$695.25/meter
8" propeller	\$927.00/meter	\$927.00/meter
10" propeller	\$1,236.00/meter	\$1,236.00/meter
12" or 14" propeller	\$1,738.15/meter	\$1,738.15/meter
16", 18" or 20" propeller	\$2,935.50/meter	\$2,935.50/meter
4" Omni F2		\$640.15/meter
6" Omni F2		\$1,440.45/meter
8" Omni F2		\$2,561.60/meter
10" Omni F2		\$2,935.50/meter

Pumping Surcharges: A pumping surcharge will be added to the commodity rate for those customers who are located at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If your property is in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC. IRWD has no control over the amounts set by MWD, MWDOC and OCWD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Sewer Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Fixed Service Charges** do not vary each month and include costs for operations, maintenance and infrastructure. There are separate service charges for water and sewer service.

Sewer Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water or sewer use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

The proposed fixed monthly sewer service charges for the average residential customer are used to pay for operations and maintenance costs including inevitable infrastructure enhancements and replacements.

Proposed Changes for Sewer Service Fixed Monthly Charges for System Operation and Maintenance		
Usage	Current Rates	Proposed Rates
Single Family Homes, Townhouses, & Condominiums	\$24.05/month	\$25.75/month
Apartments	\$18.55/month	\$19.30/month

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC, the replenishment charges paid by IRWD to OCWD for pumping groundwater, and the cost for regional treatment of sewage paid by IRWD to the Orange County Sanitation District (OCSD). IRWD has no control over the amounts set by MWD, MWDOC, OCWD and OCSD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used both inside and outside the home each month. It is based on the cost of local and imported water.
- **Fixed Service Charges** do not vary each month and include costs for operations, maintenance and infrastructure. There are separate service charges for water and sewer service.

Commodity Charge:

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17, IRWD is proposing a commodity charge increase shown in the chart below. The Low Volume rate tier rewards customers who use the least amount of water, which reduces the need for IRWD to purchase more expensive water supplies. The Base rate tier is for customers that stay within their monthly water budget allocation. The Inefficient and Wasteful tiers are for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (hundred cubic feet) and is equal to 748 gallons of water.

Proposed Residential Commodity Rates				
Tier	% of Monthly Water Budget Residential with Outdoor	% of Monthly Water Budget Multi- Family with No Outdoor	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 -40 %	0-60%	\$ 1.64	\$ 1.80
Base Rate	41 -100%	61-100%	\$ 2.39	\$ 2.46
Inefficient	101-130%	101-120%	\$ 3.60	\$ 4.01
Wasteful	131+	121+	\$15.20	\$12.01

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the low volume and base rate. The rate structure uses property-specific allocations and tiered pricing to provide an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget that provides for a reasonable amount of water for indoor and outdoor use. It can be adjusted by a variance for more people living in the home, medical needs, additional irrigated landscape area or other special circumstances.
- The monthly water commodity charge is calculated based upon how much water is used
- If a customer goes over their monthly water budget, the water is billed at increasingly higher tiers based on IRWD's cost to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the higher tiers.

Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website

To find out more information on the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated and to use the IRWD budget based rate calculator, please visit the IRWD website at www.irwd.com. The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill. Provide your account number from a recent bill and you can see how your bill will be recalculated using the proposed rates, allocations and tiers, and any variances you have on your account. Sample bills are also provided as well as technical water budget formulas. Free internet access is available Monday – Friday from 8am to 5pm in the IRWD lobby at 15600 Sand Canyon Avenue, Irvine, CA.

Water & Sewer Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water or sewer use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

Water Fixed Service Charges: The fixed monthly water service charges for the average residential customer are used to pay for operations and maintenance costs, including inevitable infrastructure enhancements and replacements. The charge is based on the size of your meter. No changes to the current fixed monthly charges are proposed.

Proposed Water Service Fixed Monthly Charges for System Operation and Maintenance		
Residential meter size – homes, condos, apartments	Current Rates	Proposed Rates
5/8 x 3/4"	\$10.30/meter	\$10.30/meter
3/4" disc meter	\$15.45/meter	\$15.45/meter
1" disc meter	\$25.75/meter	\$25.75/meter
1 1/2" disc meter	\$51.50/meter	\$51.50/meter
2" disc meter	\$82.40/meter	\$82.40/meter
2" turbo meter	\$108.15/meter	\$108.15/meter
Residential master meter (shared) apartments and condominiums 5/8 x 3/4" meter	\$10.30/meter	\$10.30/meter

The current amount for your meter size appears on your bill. Customers that remain in the low volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system. Customers that remain in the low volume tier for 9 out of 12 months will receive a \$2.00 credit per month which will be itemized on each bill. New customers do not receive this credit unless they have been with the District for a full calendar year.

Sewer Fixed Service Charges: The proposed fixed monthly sewer service charges for the average residential customer are used to pay for operations and maintenance costs including inevitable infrastructure enhancements and replacements. The tiered sewer service fixed charge is based on the 3 months with the lowest potable water usage from the prior calendar year. New customers are billed at the highest tier until they have established a full calendar year of usage history.

Proposed Changes for Sewer Service Fixed Monthly Charges for System Operation and Maintenance		
Usage	Current Rates	Proposed Rates
Average water usage exceeds 10 ccfs per month	\$24.05/month	\$25.75/month
Average water usage falls between 5 and 10 ccfs	\$21.85/month	\$23.20/month
Average water usage falls below 5 ccfs	\$18.55/month	\$19.30/month
Collection Service Charge (based on flows)	\$0.785/ccf	\$0.840/ccf

Pumping Surcharges: A pumping surcharge will be added to the commodity rate for those customers who reside at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If you live in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Proposed Changes to Pumping Surcharges, Set-up and Reconnection Fees		
Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC and the cost for regional treatment of sewage paid by IRWD to the Orange County Sanitation District (OCSD). IRWD has no control over the amounts set by MWD, MWDOC, OCWD and OCSD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Water and Sewer Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar services in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used each month. It is based on the cost of local and imported water.
- **Fixed Service Charges** do not vary each month and include costs for operations, maintenance and infrastructure. There are separate service charges for water and sewer service

Commodity Charge: Proposed Changes to the Cost of Water

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in one or two tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17, IRWD is proposing a commodity charge increase shown in the chart below. The Base Rate tier rewards customers that stay within their monthly water budget allocation. The Wasteful tier is for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (hundred cubic feet) and is equal to 748 gallons of water.

Proposed Commercial Commodity Rates:

Proposed Potable Commercial Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	0 -100 %	\$2.39	\$2.46
Wasteful	101+	\$15.20	\$12.01

Proposed Recycled Water Commercial Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	0 -100 %	\$0.97	\$1.03
Wasteful	101+	\$5.79	\$6.05

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the base rate. The rate structure uses business-specific allocations and tiered pricing to provide an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget that provides for a reasonable amount for your business needs.
- The monthly water commodity charge is calculated based upon how much water is used
- If a customer goes over their monthly water budget, the water is billed at the highest tier based on IRWD's cost to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the highest tier.

Monthly Water Budget Information Available on Website

To find out more information on the rate tiers, please visit the IRWD website at www.irwd.com. If you would like additional information regarding the monthly water budget for your property, please contact customer service at 949 453-5300.

Water & Sewer Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water or sewer use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

Water Fixed Service Charges: The fixed monthly water service charges are used to pay for operations and maintenance costs, including inevitable infrastructure enhancements and replacements. The charge is based on the size of your meter. The proposed fixed monthly charges are proposed below. The current amount for your meter size appears on your bill. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system.

Proposed Water Service Charges		
Meter Type	FY 2015-16 Rates	FY 2016-17 Rates
5/8" x 3/4" disc	\$10.30/meter	\$10.30/meter
3/4" disc	\$15.45/meter	\$15.45/meter
1" disc	\$25.75/meter	\$25.75/meter
1 1/2" disc	\$51.50/meter	\$51.50/meter
2" disc	\$82.40/meter	\$82.40/meter
3" compound	\$164.80/meter	\$164.80/meter
4" compound	\$309.00/meter	\$309.00/meter
6" compound	\$515.00/meter	\$515.00/meter
8" compound	\$991.40/meter	\$991.40/meter
10" compound	\$1,133.00/meter	\$1,133.00/meter
14" compound	\$1,802.50/meter	\$1,802.50/meter
2" turbo	\$108.15/meter	\$108.15/meter
3" turbo	\$247.20/meter	\$247.20/meter
4" turbo	\$515.00/meter	\$515.00/meter
6" turbo	\$1,030.00/meter	\$1,030.00/meter
8" turbo	\$1,802.50/meter	\$1,802.50/meter
10" turbo	\$2,163.00/meter	\$2,163.00/meter
2" magnetic	\$160.15/meter	\$160.15/meter
4" magnetic	\$640.15/meter	\$640.15/meter
6" magnetic	\$1,440.45/meter	\$1,440.45/meter
8" magnetic	\$2,561.60/meter	\$2,561.60/meter
6" propeller	\$695.25/meter	\$695.25/meter
8" propeller	\$927.00/meter	\$927.00/meter
10" propeller	\$1,236.00/meter	\$1,236.00/meter
12" or 14" propeller	\$1,738.15/meter	\$1,738.15/meter
16", 18" or 20" propeller	\$2,935.50/meter	\$2,935.50/meter
4" Omni F2		\$640.15/meter
6" Omni F2		\$1,440.45/meter
8" Omni F2		\$2,561.60/meter
10" Omni F2		\$2,935.50/meter

Sewer Fixed Service Charges: The fixed monthly sewer service charge is proposed to increase from \$24.05 to \$25.75 per month. Additional fixed monthly charges for the operation and maintenance of the system are based on the volume of water used and treated in excess of 10ccf per month and are shown in the table below.

Proposed Changes for Sewer Quantity and Industrial Waste Charges		
Component	FY 2015-16 Rates	FY 2016-17 Rates
Sewer Quantity Charge	\$2.56 per ccf	\$2.74 per ccf
Collection Quantity Charge	\$0.78 per ccf	\$0.84 per ccf
Industrial Waste Charge	\$0.125 per ccf	\$0.134 per ccf
Special Purchase Discharge Charge	Up to \$1,347.15 per million gallons	Up to \$1,377.56 per million gallons

Pumping Surcharges, Set-up and Reconnection Fees: A pumping surcharge is added to the commodity rate of customers at higher elevations which requires the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If your business is in an area affected by a pumping surcharge, it is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Proposed Changes to Pumping Surcharges, Set-up and Reconnection Fees		
Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00
Private Fire Line Service Fee	\$13.60 per diameter inch	\$13.60 per diameter inch
Fire Hydrant Charge	\$23.70/month per hydrant	\$23.70/month per hydrant

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC and the cost for regional treatment of sewage paid by IRWD to the Orange County Sanitation District (OCSD). IRWD has no control over the amounts set by MWD, MWDOC, OCWD and OCSD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption or annual total sewage flow as appropriate. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.



Irvine Ranch Water District Notice of Proposed Water Rate Change

Background

The Irvine Ranch Water District is a public agency that provides water and sewer service. Our rates are based on the actual cost to provide these services and are set each year during the annual budget process. The budget is adopted by the Board of Directors and goes into effect on July 1. A critical IRWD business objective is to keep costs, and therefore rates, as low as possible for our customers. When compared with other agencies providing similar service in Orange County, IRWD's rates are consistently among the lowest.

Basic Components of Residential Rates

- **Commodity Charge** is based on the amount of water used each month. It is based on the cost of local and imported water
- **Fixed Service Charge** does not vary each month and include costs for operations, maintenance and infrastructure.

Commodity Charge:

Commodity charges are billed monthly based on the actual volume of water used. Customers are billed in tiers based on the actual water used as a percentage of the monthly water budget. A description of how monthly water budgets are determined is described below in the section *Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website*. For FY 2016-17 IRWD is proposing a commodity charge increase shown in the chart below. The Low Volume rate tier rewards customers who use the least amount of water, which reduces the need for IRWD to purchase more expensive water supplies. The Base rate tier is for customers that stay within their monthly water budget allocation. The Inefficient and Wasteful tiers are for customers that exceed their monthly water budget. The standard Billing Unit is called a ccf (one hundred cubic feet) and is equal to 748 gallons of water.

Proposed Potable Non Agricultural/Landscape Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 - 60 %	\$1.11	\$1.21
Base Rate	61 -100%	\$1.62	\$1.65
Inefficient	101-160%	\$3.92	\$4.01
Wasteful	161+	\$14.53	\$ 12.01

Proposed Non-Potable & Recycled Non Agricultural / Landscape Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 -40 %	\$1.08	\$1.11
Base Rate	41 -100%	\$1.37	\$1.46
Inefficient	101-130%	\$1.52	\$2.41
Wasteful	131+	\$5.79	\$6.05

Proposed Agricultural Commodity Rates:

Proposed Agricultural Potable Commodity Rates		
Tier	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Base Rate	\$1.96	\$2.23

Proposed Agricultural Non-Potable / SAC Commodity Rates		
Type	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Non-Potable	\$1.50	\$2.06
SAC Water	\$1.72	\$2.07

Why Did the Cost of Water Increase?

The main reasons for the change are due to uncontrollable costs attributed to:

- Pass through charges from the Orange County Water District (OCWD) for pumping local groundwater (24% increase)
- Pass through charges from the Metropolitan Water District (MWD) for imported water (the most expensive source of water) purchased through the regional wholesaler, the Municipal Water District of Orange County (MWDOC) (4-12% increase)

Understanding the IRWD Budget Based Rate Structure

Since 1991, IRWD customer bills have been calculated using a budget based rate structure. Usage up to 100 percent of the water budget is billed at the low volume and base rate. This rate structure uses property-specific allocations and tiered pricing to provide customers an economic incentive to encourage efficient water use.

- Each customer receives a monthly water budget (allocation) that provides for a reasonable amount of water based on the irrigated landscape area.
- The monthly water commodity charge is based upon how much water is used.
- If a customer goes over their monthly water budget, the water is billed at increasingly higher tiers based on IRWD's cost of service to provide the water.
- Costs associated with the purchase of additional imported water (the most expensive source of water for IRWD), urban runoff programs, water banking and water conservation programs are allocated to the highest tiers.

Landscape Monthly Potable & Recycled Water Allocations

Type	Proposed Monthly Allocation Basis
Irrigated with Potable Water	60% warm-season turf + 40% drought tolerant landscape
Irrigated with Recycled Water	100% warm-season turf

Please visit IRWD.com for specific details about the calculation

Proposed Efficiency Factor for Functional Turf & Recycled Water Allocations

The proposed water allocation for recycled water use and for functional turf irrigated with potable water, such as a sport field will be based on a 75% irrigation efficiency factor instead of the current 71% efficiency factor. Other components of these allocations remain unchanged. This will result in a slight reduction in your monthly water allocation. Please visit IRWD.com and use the rate calculator to see how this will affect your monthly bill.

Monthly Water Budgets, Rate Calculator & Sample Bills Available on Website

To find out more information on the rate tiers, the types of usage that determine the monthly water budget, how the monthly water budget is calculated and to use the IRWD budget based rate calculator, please visit the IRWD website at www.irwd.com. The calculator shows how staying within your monthly water budget or exceeding it will affect your monthly bill. Provide your account number from a recent bill and you can see how your bill will be recalculated using the proposed rates, allocations and tiers. Free internet access is available Monday – Friday from 8am to 5pm in the IRWD lobby at 15600 Sand Canyon Avenue, Irvine, CA.

Water Fixed Service Charges:

Monthly service charges are fixed monthly charges which cover IRWD's cost of operations, maintenance and infrastructure and do not change based on the amount of a customers' water use. Monthly service charges are based on a 30 day calendar month so billing cycles which are longer or shorter than 30 days are billed based on the proportional number of days. The fixed charge includes an amount set aside for the future inevitable repair and replacement of infrastructure such as pipes, pumping stations and treatment facilities. This way, the District can avoid significant one time rate spikes when the repairs and replacements are made. These charges are not used to pay for facilities that extend service to new development.

The charge is based on the size of your meter. The current amount for your meter size appears on your bill. Customers that remain in the low volume tier for most of the year will have a larger percentage of their bill made up of the fixed charge. The baseline fixed charge is calculated on the meter's maximum flow capacity and the demand on the system. Potable customers that remain in the low volume tier for 9 out of 12 months will receive a \$2.00 credit per month which will be itemized on each bill. New customers do not receive this credit unless they have been with the District for a full calendar year.

Proposed Water Service Charges		
Meter Type	FY 2015-16 Rates	FY 2016-17 Rates
5/8" x 3/4" disc	\$10.30/meter	\$10.30/meter
3/4" disc	\$15.45/meter	\$15.45/meter
1" disc	\$25.75/meter	\$25.75/meter
1 1/2" disc	\$51.50/meter	\$51.50/meter
2" disc	\$82.40/meter	\$82.40/meter
3" compound	\$164.80/meter	\$164.80/meter
4" compound	\$309.00/meter	\$309.00/meter
6" compound	\$515.00/meter	\$515.00/meter
8" compound	\$991.40/meter	\$991.40/meter
10" compound	\$1,133.00/meter	\$1,133.00/meter
14" compound	\$1,802.50/meter	\$1,802.50/meter
2" turbo	\$108.15/meter	\$108.15/meter
3" turbo	\$247.20/meter	\$247.20/meter
4" turbo	\$515.00/meter	\$515.00/meter
6" turbo	\$1,030.00/meter	\$1,030.00/meter
8" turbo	\$1,802.50/meter	\$1,802.50/meter
10" turbo	\$2,163.00/meter	\$2,163.00/meter
2" magnetic	\$160.15/meter	\$160.15/meter

4" magnetic	\$640.15/meter	\$640.15/meter
6" magnetic	\$1,440.45/meter	\$1,440.45/meter
8" magnetic	\$2,561.60/meter	\$2,561.60/meter
6" propeller	\$695.25/meter	\$695.25/meter
8" propeller	\$927.00/meter	\$927.00/meter
10" propeller	\$1,236.00/meter	\$1,236.00/meter
12" or 14" propeller	\$1,738.15/meter	\$1,738.15/meter
16", 18" or 20" propeller	\$2,935.50/meter	\$2,935.50/meter
4" Omni F2		\$640.15/meter
6" Omni F2		\$1,440.45/meter
8" Omni F2		\$2,561.60/meter
10" Omni F2		\$2,935.50/meter

Pumping Surcharges: A pumping surcharge will be added to the commodity rate for those customers who are located at higher elevations and cause the District to incur additional pumping costs to supply their water. The surcharge is based on the actual prevailing energy costs and varies depending upon the elevation of the area served. If your property is in an area affected by a pumping surcharge, the charge is itemized on your monthly bill. Please visit the IRWD website at www.irwd.com to see charges by zone.

Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf
One-time Setup Fee for New Accounts	\$25.00	\$25.00
Shutoff Reconnection Fees	\$70.00 - \$95.00	\$70.00 - \$95.00

Automatic Pass-Through Adjustments

IRWD has used its best available information to calculate proposed increases in the cost of imported water IRWD purchases from MWD through MWDOC, and the replenishment charges paid by IRWD to OCWD for pumping groundwater. IRWD has no control over the amounts set by MWD, MWDOC and OCWD (the "Regional Agencies"), and must pass those costs through to IRWD customers. Should any of the Regional Agencies adopt an additional increase (or decrease) in its charges ("Pass-Through Amount"), IRWD will automatically recalculate its rates to include the Pass-Through Amount. If this occurs, the automatic IRWD rate adjustment will not require a public hearing or any additional action by the IRWD Board of Directors. At least 30 days before the effective date of the adjustment, IRWD will provide its customers with the expected adjustment(s), which will generally be calculated as the total projected cost increase divided by the projected annual water consumption. This calculation will vary as necessary to reflect IRWD's different service areas and service classes.

Public Hearing

Any customers or property owners within the IRWD service area may file a written protest for the proposed rate increases with IRWD by sending a letter to IRWD, P.O. Box 5149, Irvine, CA 92616. A valid protest letter must include your name, the address at which you receive service from IRWD, a statement of protest and your original signature. Protest letters received by June 27 will be tabulated and presented to the Board of Directors at a public hearing regarding the rate increase to be held on June 27, 2016 at 5 p.m. in the IRWD Board Room, 15600 Sand Canyon Ave., Irvine, CA. Any customers or property owners may appear at the hearing to make comments regarding the proposed rates. Letters may be delivered in person at the hearing, and must be received prior to the conclusion of the June 27 public hearing.

Additional Information

For more information on IRWD's water efficiency programs, rebates and tips on how you can conserve, visit www.irwd.com. If you have any additional questions, please contact IRWD Customer Service at 949-453-5300.

Exhibit "C"

RESOLUTION NO. 2016 -

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT,
ORANGE COUNTY, CALIFORNIA
APPROVING DISTRICT'S OPERATING BUDGET FOR
FISCAL YEAR 2016-17 AND DETERMINING COMPLIANCE WITH
ARTICLE XIII B OF THE CALIFORNIA CONSTITUTION

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has fully considered the financial needs of IRWD for purposes of operational costs during Fiscal Year 2016-17; and

WHEREAS, an Operating Budget has been prepared and reviewed by this Board of Directors; and

WHEREAS, Article XIII B of the Constitution of the State of California provides that the appropriations of local agencies will be limited each year to those of the previous year, adjusted for changes in population, cost of living and transfers in sources of funding; and

WHEREAS, Section 8 of Article XIII B specifically excludes user charges or fees or regulatory fees as long as such fees and charges do not produce revenues exceeding the costs reasonably borne in providing the regulation, product or service; and

WHEREAS, IRWD's Operating Budget for Fiscal Year 2016-17 is totally funded from user charges which are excluded from the appropriations formula established by Article XIII B.

NOW, THEREFORE, the Board of Directors of IRWD DOES HEREBY RESOLVE, DETERMINE and ORDER as follows:

Section 1. That relative to appropriations subject to limitation under Article XIII B of the Constitution of the State of California, IRWD's Operating Budget for Fiscal Year 2016-17 is hereby determined to be funded totally by revenues other than the proceeds of taxes as defined in Section 8(c) of Article XIII B, and that the documentation used in making such determination has been on file in the offices of IRWD for not less than fifteen days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California.

Section 2. That IRWD's Operating Budget for Fiscal Year 2016-17 is in compliance with the provisions of Article XIII B of the Constitution of the State of California.

Section 3. That pursuant to Section 21080(b) (8) of the Public Resources Code providing that the establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or other charges by public agencies are exempt from the requirements of the California Environmental Quality Act (CEQA), it is hereby found that the Operating Budget for

Fiscal Year 2016-17 including proposed rates and charges is within the purposes set forth in Section 21080(b) of the Public Resources Code including but not by way of limitation, the purposes of (1) meeting operating expenses, (2) purchasing or leasing supplies, equipment or materials, (3) meeting financial reserve needs and requirements, and (4) obtaining funds for capital projects necessary to maintain service within existing areas.

Section 4. That the proposed Operating Budget for Fiscal Year 2016-17 is consistent with the recommendations of the cost of service study approved June 8, 2015.

Section 5. That the Operating Budget for IRWD for Fiscal Year 2016-17 as set forth in the Summary of the Operating Budget dated April 25, 2016 which is by this reference incorporated herein, be and the same is hereby approved.

ADOPTED, SIGNED AND APPROVED this 25th day of April, 2016.

President, IRVINE RANCH WATER DISTRICT
and the Board of Directors thereof

Secretary, IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES & GIANNONE
Legal Counsel – IRWD

By: _____

Exhibit "D"

Board Workshop Operating Budget and Rate Setting April 25, 2016



Schedule for Budget & Rate Adoption

FY 2016-17 Operating Budget and Rates

March 1	F&P Committee: Preliminary Budget Review
March 15	Special F&P Committee: Detailed Budget Review
April 5	F&P Committee: Budget Update, Impact on Rates
April 11	First Board Workshop
April 25	Second Board Workshop: Staff recommends adoption of Budget and approval of Proposition 218 Notices
May 6	Proposition 218 Notices mailed
June 27	Adopt FY 2016-17 Rates & Charges



Agenda

First Workshop (held April 11, 2016):

- Detailed Budget Review- FY 2016-17
 - Revenues
 - Significant factors affecting rate setting
 - Operating expenses by system
- Funding Operating Increases Through Rates
- Comparison of Proposed Rates
- Schedule for Budget & Rate Adoption

Tonight's Workshop:

- Recap Budget Highlights FY 2016-17
- Updated Impact on Rates and use of Rate Stabilization Fund
- Detailed Review of the Proposition 218 Notices
- Staff Recommendation:
 - Adopt Budget
 - Approve Proposition 218 Notices

OPERATING BUDGET



FY 2016-17 Operating Budget

Key drivers comparison to prior year budget

(in millions)

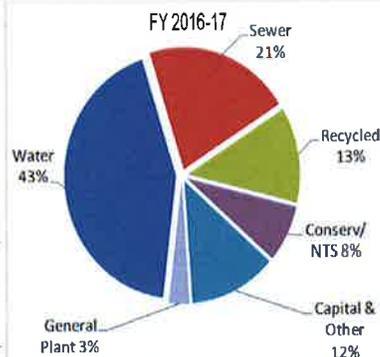
Consolidated Budget	Current FY 15-16	Proposed FY 16-17	Increase / (Decrease)	%
Salaries and Benefits	\$47.4	\$51.4	\$4.0	8.4%
Purchased Water	\$35.0	\$36.2	\$1.2	3.4%
Repairs and Maintenance	\$21.8	\$23.0	\$1.2	5.5%
Electricity	\$16.4	\$14.8	(\$1.6)	-9.8%
Other Expenses	\$19.8	\$21.5	\$1.7	8.6%
Total	\$140.4	\$146.9	\$6.5	4.6%

FY 2016-17 Operating Budget

By Funding Source

(in thousands)

	Current FY 2015-16	Proposed FY 2016-17	Inc/(Decr)	%
Water	\$ 60,342	\$ 65,360	\$ 5,018	8.3%
Sewer	28,181	31,747	3,566	12.7%
Recycled	25,207	19,417	(5,790)	(23.0%)
Conservation/NTS	7,047	11,549	4,502	63.9%
Capital & Other	19,601	18,861	(740)	(3.8%)
Sub-Total	140,378	146,933	6,555	4.7%
General Plant	1,514	4,546	3,032	200.3%
Total	\$ 141,892	\$ 151,479	\$ 9,587	6.8%



* Capital Support consists of Labor and related Overhead Charges which are funded by Capital sources or non-operating sources; these charges are not recovered through monthly rates and charges.



PROPOSED RATES



FY 2016-17 Operating Budget

FY 2016-17 Proposed Rate Adjustments

Water	Rate Area	Current	Proposed
Fixed Charge	Irvine Ranch	\$ 10.30/month	\$ 10.30/month
	Los Alisos	\$ 10.30/month	\$ 10.30/month
Low Volume	Irvine Ranch	\$ 1.11/ccf	\$ 1.21/ccf
	Los Alisos	\$ 1.64/ccf	\$ 1.80/ccf
Base Commodity	Irvine Ranch	\$ 1.62/ccf	\$ 1.65/ccf
	Los Alisos	\$ 2.39/ccf	\$ 2.46/ccf
Sewer/Recycled	Rate Area	Current	Proposed
Fixed Charge	<i>Rate Areas</i>	\$21.85/month	\$ 23.20/month
Base Commodity	<i>Rate Areas</i>	\$ 1.37/ccf	\$ 1.46/ccf



FY 2016-17 Operating Budget

Proposed Rate Factors -Irvine Ranch Rate Area

Tiers	Low Volume	Base Rate	Inefficient	Wasteful
Lowest Cost Source of Water	\$1.18			
District Wide Conservation	\$0.03	\$0.03	\$0.03	\$0.03
Melded Cost of Water		\$1.62		
Loaded Cost of Imported Water			\$3.69	\$3.69
Water Banking			\$0.16	\$0.16
Conservation and NTS			\$0.13	\$8.13
Total Cost per Tier (July 1)	\$1.21	\$1.65	\$4.01	\$12.01

Irvine Ranch Water District

FY 2016-17 Operating Budget

Proposed Rate Factors- Los Alisos Rate Area

Tiers	Low Volume	Base Rate	Inefficient	Wasteful
Groundwater and Baker WTP	\$1.77			
District Wide Conservation	\$0.03	\$0.03	\$0.03	\$0.03
Melded Cost of Water		\$2.43		
Loaded Cost of Imported Water			\$3.69	\$3.69
Water Banking			\$0.16	\$0.16
Conservation and NTS			\$0.13	\$8.13
Total Cost per Tier (July 1)	\$1.80	\$2.46	\$4.01	\$12.01

Irvine Ranch Water District



FY 2016-17 Operating Budget

Proposed Tiered Rates – Irvine Ranch Rate Area

Tiers	Current	Proposed	Diff.	Description
Low Volume	\$1.11	\$1.21	\$0.10	Lowest cost of source water for the Irvine Ranch Rate Area (\$1.18/ccf) + District wide conservation and NTS costs (\$0.03/ccf).
Base Rate	\$1.62	\$1.65	\$0.03	All sources melded cost of budgeted water (\$1.62/ccf) + District wide conservation and NTS costs (\$0.03/ccf).
Inefficient	\$3.92	\$4.01	\$0.09	Loaded cost of imported water (\$3.69/ccf) + District wide conservation and NTS costs (\$0.03/ccf) + water banking costs (\$0.16/ccf) + the conservation commitment to this tier (\$0.13/ccf)
Wasteful	\$14.53	\$12.01	(\$2.52)	Loaded cost of imported water (\$3.69/ccf) + District wide conservation and NTS costs (\$0.03/ccf) + water banking costs (\$0.16/ccf) + the conservation & NTS commitment to this tier (\$8.13/ccf)

Irvine Ranch Water District

FY 2016-17 Operating Budget

Proposed Tiered Rates – Los Alisos Rate Area

Tiers	Current	Proposed	Diff.	Description
Low Volume	\$1.64	\$1.80	\$0.16	Lowest cost of source water for the (\$1.77/ccf) + District wide conservation and NTS costs (\$0.03/ccf).
Base Rate	\$2.39	\$2.46	\$0.07	All sources melded cost of budgeted water (\$2.43/ccf) + District wide conservation and NTS costs (\$0.03/ccf).
Inefficient	\$3.60	\$4.01	\$0.41	Loaded cost of imported water (\$3.69/ccf) + District wide conservation and NTS costs (\$0.03/ccf) + water banking costs (\$0.16/ccf) + the conservation commitment to this tier (\$0.13/ccf)
Wasteful	\$15.20	\$12.01	(\$3.19)	Loaded cost of imported water (\$3.69/ccf) + District wide conservation and NTS costs (\$0.03/ccf) + water banking costs (\$0.16/ccf) + the conservation & NTS commitment to this tier (\$8.13/ccf)

Irvine Ranch Water District



Comparison of the Irvine Ranch Rate Area Proposed Rates – FY 15-16 to FY 16-17

Typical Residential Customer

	Current Rate FY 15-16	Proposed Rate FY 16-17	Rate Change	% Change
Water				
Service Charge *	\$ 10.30	\$ 10.30	\$ 0.00	
Commodity Charge **	<u>16.89</u>	<u>17.60</u>	<u>0.71</u>	
<i>Total Water Charge</i>	\$ 27.19	\$ 27.90	\$ 0.71	
Sewer				
Service Charge *	\$ 21.85	\$ 23.20	\$ 1.35	
Total Typical Residential Monthly Bill	\$ 49.04	\$ 51.10	\$ 2.06	4.2%

* Treated water service charge assumes a 5/8" x 3/4" meter. Both the water and sewer service charges include components for enhancement and replacement capital. The proposed rates include an additional \$0.65 for water replacements and \$0.65 for the Biosolids Project replacement capital.

** Commodity charges for a typical residential customer are based on 12 ccf (District average).

Irvine Ranch Water District

Comparison of the Los Alisos Rate Area Proposed Rates – FY 15-16 to FY 16-17

Typical Residential Customer

	Current Rate FY 15-16	Proposed Rate FY 16-17	Rate Change	% Change
Water				
Service Charge *	\$ 10.30	\$ 10.30	\$ 0.00	
Commodity Charge **	<u>24.93</u>	<u>26.22</u>	<u>1.29</u>	
<i>Total Water Charge</i>	\$ 35.23	\$ 36.52	\$ 1.29	
Sewer				
Service Charge *	\$ 21.85	\$ 23.20	\$ 1.35	
Total Typical Residential Monthly Bill	\$ 57.08	\$ 59.72	\$2.64	4.6%

* Treated water service charge assumes a 5/8" x 3/4" meter. Both the water and sewer service charges include components for enhancement and replacement capital. The proposed rates include an additional \$0.65 for water replacements and \$0.65 for the Biosolids Project replacement capital.

** Commodity charges for a typical residential customer are based on 12 ccf (District average).

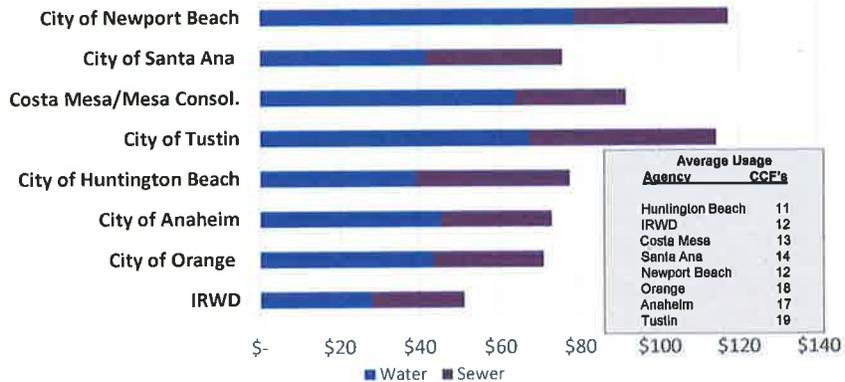
Irvine Ranch Water District



Comparison of Irvine Ranch Rate Area Proposed Rates

Neighboring agencies with access to groundwater through OCWD*:

Water & Sewer Bill Based on Average Usage



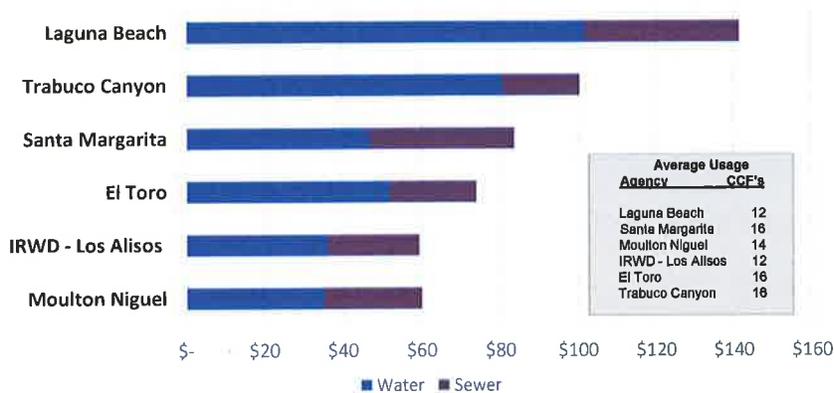
* Based on most recent Prop 218 notices.

Irvine Ranch Water District

Comparison of Los Alisos Rate Area Proposed Rates

Neighboring agencies without access to groundwater through OCWD*:

Water and Sewer Bill Based on Average Usage



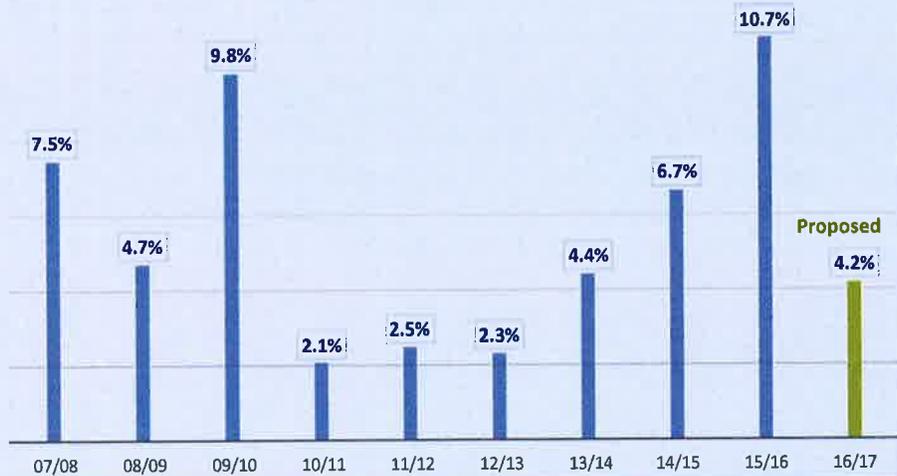
* Based on most recent Prop 218 notices.

Irvine Ranch Water District



Rate History

Average Monthly Rate Increase-Irvine Ranch Rate Area



Irvine Ranch Water District

FY 2016-17 Operating Budget

Rate Sensitivity for Changes in RA

Impact to commodity for a \$10 change in RA (up or down)

- \$0.02 for Low Volume
- \$0.01 for Base Rate

Irvine Ranch Water District



FY 2016-17 Operating Budget

NON-OPERATING SOURCES & USES OF FUNDS (thousands)

Revenues:	FY 2015-16	FY 2016-17
Property Taxes	\$43,466	\$47,689
Investment Income	1,642	2,686
Connection Fees	22,000	22,000
Real Estate Income	12,556	12,954
Other Income	5,915	6,500
Total Sources	\$85,579	\$91,829
Expenses:		
Interest Expense	\$22,056	\$24,606
Real Estate Expense	6,303	6,834
Other Expenses	1,174	1,000
Total Uses	\$29,533	\$32,440
Net Sources & Uses	\$56,046	\$59,389

Irvine Ranch Water District

Proposition 218 Notices



PROPOSITION 218 NOTICES

Improved customer friendly 2-3 page format

- Basic components
- Proposed commodity rates
- Proposed monthly water and sewer service charges
- Other required noticing

PROP 218 STRUCTURE

Proposed Commodity Rates- Irvine Ranch Rate Area

Proposed Residential Commodity Rates			
Tier	% of Monthly Water Budget	FY 2015-16 Rates per ccf	FY 2016-17 Rates per ccf
Low Volume	0 -40 %	\$ 1.11	\$ 1.21
Base Rate	41 -100%	\$ 1.62	\$ 1.65
Inefficient	101-130%	\$ 3.92	\$ 4.01
Wasteful	131+	\$14.53	\$12.01



PROP 218 STRUCTURE

Proposed Water Fixed Service Charges - Irvine Ranch Rate Area:

Proposed Water Service Fixed Monthly Charges for System Operation and Maintenance		
Residential meter size – homes, condos, apartments	Current Rates	Proposed Rates
5/8 x 3/4"	\$10.30/meter	\$10.30/meter
3/4" disc meter	\$15.45/meter	\$15.45/meter
1" disc meter	\$25.75/meter	\$25.75/meter
1 1/2" disc meter	\$51.50/meter	\$51.50/meter
2" disc meter	\$82.40/meter	\$82.40/meter
2" turbo meter	\$108.15/meter	\$108.15/meter
Residential master meter (shared) apartments and condominiums 5/8 x 3/4" meter	\$10.30/meter	\$10.30/meter

PROP 218 STRUCTURE

Changes to the Sewer Fixed Service Charges - Irvine Ranch Rate Area:

Proposed Changes for Sewer Service Fixed Monthly Charges for System Operation and Maintenance		
Usage	Current Rates	Proposed Rates
Average water usage exceeds 10 ccfs per month	\$24.05/month	\$25.75/month
Average water usage falls between 5 and 10 ccfs	\$21.85/month	\$23.20/month
Average water usage falls below 5 ccfs	\$18.55/month	\$19.30/month
Collection Service Charge (based on flows)	\$0.785/ccf	\$0.840/ccf



PROP 218 STRUCTURE

Changes to the Pumping Surcharges - Irvine Ranch Rate Area:

Proposed Changes to Pumping Surcharges		
Component	Current Rates	Proposed Rates
Pumping Surcharges by Zone	\$0.09 to \$0.47/ccf	\$0.21 to \$0.65/ccf

PROP 218 STRUCTURE

Other Required Disclosures

- Automatic pass-through adjustments
- Notice the Public Hearing date and location



Recommendations & Next Steps

Recommended Board Actions:

1. Adopt the Resolution to Approve the FY 2016-17 Operating Budget
2. Approve the Proposition 218 Notices

Next Steps:

1. Mail Proposition 218 Notices (~May 6)
2. Receive and Tabulate Responses over 45 day period
3. June 22, 2016: Adopt proposed Rates & Charges effective July 1, 2016
4. 1st Bills with application of new rates will occur in August.

Next Steps

Date	Action
April 25	Second Board workshop – Will recommend approval of operating budget and approval of Proposition 218 notices that include changes to rates and charges
May 6 (approx)	Mail notification to residents meeting Prop. 218 requirements
June 22	Tabulate responses to the Prop. 218 notices
June 27	Board Meeting – Public hearing to review Prop. 218 responses; adopt IRWD Rates and Charges for FY 2016-17



April 25, 2016

Prepared by: B. Meserlian/E. Akiyoshi

Submitted by: K. Burton *K.B.*

Approved by: Paul Cook *P. Cook*

WORKSHOP

FISCAL YEAR 2016-17 CAPITAL BUDGET

SUMMARY:

The projected expenditures for the Fiscal Year (FY) 2016-17 Capital Budget are \$160.2 million. Staff recommends that the Board adopt a resolution approving the FY 2016-17 Capital Budget. A final Capital Budget notebook will be distributed following adoption.

BACKGROUND:

The forecasted capital expenditures for the upcoming fiscal year are presented annually to the Engineering and Operations Committee and Board for review. The presentation, attached as Exhibit "A", includes an update on FY 2015-16 budget-to-actual capital expenditures and projected FY 2016-17 capital expenditures.

In the current fiscal year, FY 2015-16, budgeted expenditures were originally estimated at \$150.2 million. Actual expenditures are projected at approximately \$136.8 million (equating to 91% of projected expenditures) through the end of the current fiscal year. Capital expenditures for FY 2016-17 are estimated at \$160.2 million. Three projects: (1) the MWRP Biosolids & Energy Recovery Facilities, (2) OCSD's Capital Outlay Revolving Fund, Equity, and Solids Facilities, and (3) the ILP North Conversion project will make up approximately 50% of projected expenditures.

FISCAL IMPACTS:

The following table shows the major projects for FY 2016-17. The FY 2016-17 Capital Budget, attached as Exhibit "B", provides details on all the capital projects anticipated to have expenditures in FY 2016-17.

Project	FY 2016-17 (\$ Million)
MWRP Biosolids & Energy Recovery Facilities	45.6
OCSD / CORF / Solids Facilities	18.2
ILP North Conversion	14.6
Water Banking & Dry-Year Programs	11.5
Baker Water Treatment Plant	10.4
Planning Area 51 (Great Park Neighborhoods)	9.5
General Plant	5.6
Annual Operational System Repair and Rehabilitation	5.0
Business Software	4.8
Asset Optimization	4.6
Subtotal	\$129.8
Total All Projects	\$160.2

ENVIRONMENTAL COMPLIANCE:

Not required.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on March 15, 2016. Total FY 2016-17 capital expenditures presented to the Committee were \$159.6 million. Adjustments have been made to several Improvement District Splits and three project budgets were increased. The increased FY 2016-17 budgets are presented below:

- Project 7233 – Baker Solar: Adds \$45,400 of direct costs
- Project 6013 – Water Supply and System Reliability: Adds \$1,300 of direct costs
- Project 4614 – PA51 Reach A Sewer Improvements: Adds \$551,500 of direct costs

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2016 –

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY
CALIFORNIA, APPROVING THE DISTRICT'S CAPITAL
BUDGET FOR FISCAL YEAR 2016-17

LIST OF EXHIBITS:

Exhibit "A" – Capital Budget Presentation

Exhibit "B" – FY 2016-17 Capital Budget

Exhibit "C" – Resolution

Fiscal Year 2016-17 Capital Budget

Board of Directors Workshop
April 25, 2016



Capital Budget Presentation Outline

- Review Fiscal Year (FY) 2015-16 budget
 - Update on expenditures for FY 2015-16
- Review changes since the E&O Committee
- Review proposed FY 2016-17 budget
 - FY 2016-17 Capital Budget Summary
 - Long-Term Capital Program
 - Flagged Projects
- Recommendation

Review FY 2015-16 Expenditures

Description	Budgeted Expenditures (\$ Million)*	Forecasted Actual Expenditures (\$ Million)*
Top 10 project groups	\$133	\$125.4
Other projects	\$17.2	\$11.4
FY 2015-16 Total	\$150.2	\$136.8

* Capital offsets (grants, reimbursements, and other non-IRWD funding sources) not subtracted.

Review FY 2015-16 Top 10 Expenditures

No.	Description	Budgeted Expenditures (\$ Million)*	Forecasted Expenditures (\$ Million)*
1	MWRP Biosolids & Energy Recovery Facilities	53.9	50.3
2	Baker Water Treatment Plant	38.9	36.2
3	OCSD / CORF	12.2	12.2
4	Water Banking	7.1	4.5
5	Planning Area 51 (Great Park Neighborhoods)	6.9	2.9
6	Peters Canyon Channel Water Capture and Reuse Pipeline	5.4	9.3
7	Annual Operational System Repair and Rehabilitation	3.7	4.7
8	Business Software	2.1	1.0
9	ILP North Conversion	1.4	1.7
10	Rattlesnake Sodium Hypochlorite Storage and Feed	1.4	2.7
Subtotal		\$133	\$125.4
Other Projects		\$17.2	\$11.4
Total		\$150.2	\$136.8

* Capital offsets (grants, reimbursements, and other non-IRWD funding sources) not subtracted.

Development Projects

• FY 2015-16 Development Activity

- Releases through January 2016: **2,263** dwelling units
- Forecasted releases: **3,830** dwelling units
- Focused on multi-family units in areas with existing infrastructure
 - Baker Ranch
 - Orchard Hills and Portola Springs
 - Great Park Neighborhoods (District 1)
 - Cypress Village and Stonegate
 - Hidden Canyon

• FY 2016-17 Development Activity

- Forecasted releases = Similar to 2015-16
- Multi-family and single family dwelling units continue to be developed in: Orchard Hills, Portola Springs, Cypress Village, Great Park Neighborhoods (District 1) and Baker Ranch.

High Activity Development Areas

Orchard Hills
(Neighborhoods 1 and 2)

Stonegate

Great Park Area
(Districts 1, 4, 7)

Cypress Village

Portola Springs

Baker Ranch

PA-1 & 2
Orchard Hills

PA-58
Portola Springs

Baker Ranch

Stonegate

Great Park

PA-40
Cypress Village

Irvine Spectrum

PA-39 Los
Cinijos

Hidden Canyon

FY 2015-16	Apts	Condos	Single Family	Totals
1 st Quarter	397	155	215	767
2 nd Quarter	420	351	422	1193
3 rd Quarter*	470	170	270	910
4 th Quarter *	430	230	300	960
Totals	1,717	906		

Changes from Engineering and Operations Committee

- **Project 7233, Baker Solar:**
+\$45,400 of direct costs
- **Project 6013, Water Supply & System Reliability:**
+ \$1,300 of direct costs
- **Project 4614, PA51 Reach A Sewer Improvements:**
+ \$551,500 of direct costs

Irvine Ranch Water District

FY 2016-17 Forecasted Expenditure

- **FY 2016-17 forecasted expenditures = \$160.2 M**
 - Domestic water expenditures = \$51.0 M
 - Sewer/ Recycled water expenditures = \$109.2 M
- **Top 10 Project Groups = \$129.8 M**
- **Other Projects = \$30.4 M**

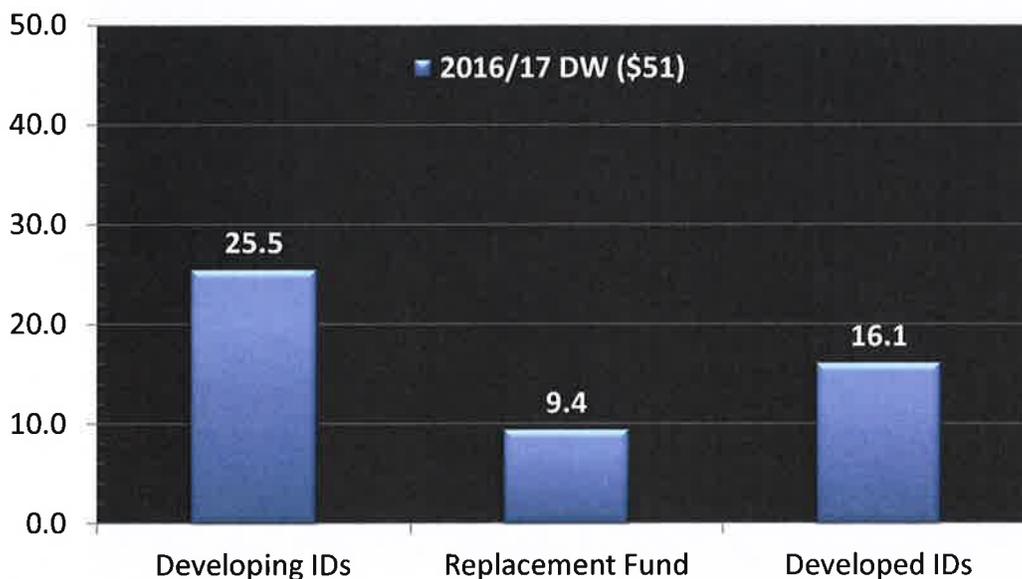
FY 2016-17 Top 10 Project Groups

Rank	Description	Est. FY16-17 Exp. (\$ Million)*
1	MWRP Biosolids & Energy Recovery Facilities	45.6
2	OCSD / CORF / Solids Facilities	18.2
3	ILP North Conversion	14.6
4	Water Banking	11.5
5	Baker Water Treatment Plant	10.4
6	Planning Area 51 (Great Park Neighborhoods)	9.5
7	General Plant	5.6
8	Annual Operational System Repair and Rehabilitation	5.0
9	Business Software	4.8
10	Asset Optimization	4.6
Subtotal		\$129.8
Other Projects		\$30.4
Total		\$160.2

* Capital offsets (grants, reimbursements, and other non-IRWD funding sources) not subtracted.

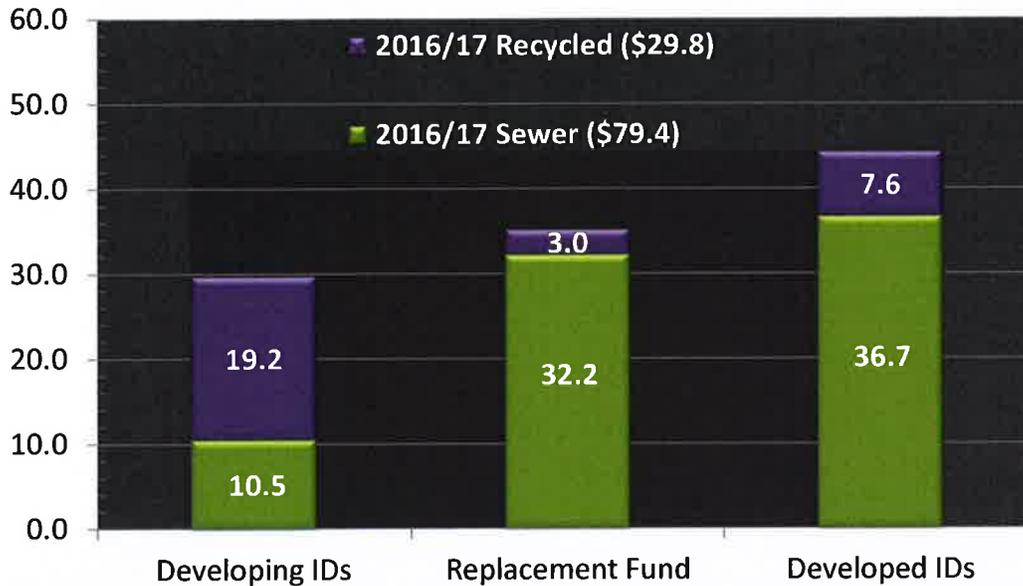
Capital Budget Funding Sources

Domestic Water Projects (\$ million)



Capital Budget Funding Sources

Sewer/ Recycled Water Projects (\$ million)



Long Term Capital Program Summary (\$ Million)

- **The Long-Term Capital Program (LTCP) includes every active, and proposed project, beyond 7/1/16**
- **Estimated LTCP expenditures = \$631.9**
- **Proposed increase to the LTCP is \$61.4**
 - \approx \$26.4 to Replacement IDs
 - \approx \$28.7 to Developed IDs
 - \approx \$6.3 to Developing IDs

Proposed Increases to the Long-Term Capital Program

Project Groups	Increases Including Offsets (\$Million)
1. Replacement Projects (IDF NaClO, Ratt PS, Well Rehabs)	\$14.5
2. Zone 1 Reservoir	\$12.3
3. OCWD Annexation Fees	\$8.7
4. Water Banking	\$6.6
5. MWRP Future (Phase 3)	\$6.5
6. Operational Systems (NPC LS Imp., SJM Imp.)	\$5.8
7. General Plant	\$5.6
8. Annual Operation System Repair & Rehabilitation	\$4.6
9. ILP North Conversion	\$3.6
10. Planning	\$2.6
11. OCSD / CORF / Solids Facilities	\$2.4
12. Development Projects	(\$2.8)
13. Water Resources (DATS Well Lease)	(\$9.2)
14. Other Increases / Decreases	\$0.1
Total	\$61.4

13

Long Term Capital Program Summary (\$ Million)

Funding Source	Unexpended LTCP (07/01/15)		Mid-Year Approved Increases		Estimated FY 15-16 Expenditures**		Proposed LTCP Increases		Estimated Unexpended LTCP (07/01/16)
Replacement IDs (101/201)*	\$185.1	+	\$2.4	-	\$33.6	+	\$26.4	=	\$180.3
Developed IDs	\$274.4	+	\$8.4	-	\$35.7	+	\$28.7	=	\$275.8
Developing IDs	\$173.2	+	\$9.9	-	\$13.6	+	\$6.3	=	\$175.8
Total	\$632.7	+	\$20.7	-	\$82.9	+	\$61.4	=	\$631.9

* Excludes Replacement Planning Model expenditures,

FY 2016-17 Flagged Projects

Flagged projects require additional Board review prior to capital expenditures. FY 2016-17 flagged projects include:

1100 – Lake Forest Well 1 Drilling

1117 – Lake Forest Well 1 Wellhead

7140 – Tustin Legacy Redhill Well Drilling & Equipping

1402 – Wells 51/52/53 Treatment Alternatives Study

3808 – Syphon Reservoir Expansion

All projects with start dates beyond the FY 2016-17 must be presented to the board prior to any expenditures.

Recommendation

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

**RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY
CALIFORNIA, APPROVING THE DISTRICT'S CAPITAL
BUDGET FOR FISCAL YEAR 2016-17**

EXHIBIT "B"

C A P I T A L B U D G E T

FISCAL YEAR 2016/17

DRAFT

APRIL 25, 2016



IRVINE RANCH WATER DISTRICT
15600 SAND CANYON AVENUE
IRVINE, CA 92618

CAPITAL BUDGET

FISCAL YEAR 2016/17

DRAFT
April 25, 2016



Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

FISCAL YEAR 2016/17 CAPITAL BUDGET

TABLE OF CONTENTS

<u>TAB</u>	<u>DESCRIPTION</u>
1.	PROJECT EXPENDITURES BY PROJECT NUMBER
2.	FLAGGED PROJECTS
3.	TOP TEN PROJECT GROUPS
4.	WATER IMPROVEMENT DISTRICT ALLOCATIONS
5.	SEWER IMPROVEMENT DISTRICT ALLOCATIONS
6.	PROJECT EXPENDITURES BY IMPROVEMENT DISTRICT AND SOURCE OF FUNDS
7.	GENERAL PLANT BUDGET
8.	REFERENCE MAPS <ul style="list-style-type: none">▪ WATER IMPROVEMENT DISTRICTS▪ SEWER IMPROVEMENT DISTRICTS

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
1015	TECHNOLOGY DR AND LAGUNA CANYON RD RW ZONE B	1,404,700	1,487,900	3,223,500	3,556,500	No
1038	TUSTIN LEGACY MASTER DW FACILITIES	159,200	232,300	1,495,200	1,676,500	No
1056	PA39 PHASE 1 RW PIPELINES	200	200	180,400	221,200	No
1062	TUSTIN LEGACY MASTER SEWER FACILITIES	120,000	165,700	1,115,400	1,208,000	No
1100	LAKE FOREST WELL 1 DRILLING	38,700	47,900	1,417,600	1,445,400	Yes
1101	TUSTIN LEGACY MASTER RW FACILITIES	157,000	233,700	1,544,900	1,733,600	No
1117	LAKE FOREST WELL 1 WELLHEAD	31,200	40,400	1,035,100	1,087,000	Yes
1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	5,600	5,600	1,078,000	1,198,300	No
1167	GREAT PARK COORDINATION AND SAMP UPDATE	3,500	5,000	132,000	187,500	No
1181	LAKE FOREST DW OFFSITE IMPROVEMENTS	68,700	107,600	424,600	487,600	No
1257	HQ OFFICE IMPROVEMENTS	13,700	18,400	81,400	110,100	No
1264	ASSET OPTIMIZATION - LAKE FOREST DEVELOPMENT	990,500	990,500	6,500,000	6,685,000	No
1308	PA6 RW PIPELINES	486,100	535,600	620,500	697,300	No
1336	HQ OFFICE IMPROVEMENTS	46,500	64,300	277,300	383,800	No
1354	PA1 16" Z5 PIPE, 5-4 PRVS NEIGHBORHOOD 3	11,000	29,400	1,237,500	1,367,100	No
1373	OCWD ANNEXATION FEE 16/17	580,600	580,600	580,600	580,600	No
1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	460,100	706,700	10,506,300	11,431,300	No
1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	5,300	6,700	133,100	170,100	Yes
1414	SAND CANYON 16" DW PIPELINE ANODE REPLACEMENT	1,600	4,200	243,100	308,000	No
1429	OCSD SOLIDS HANDLING 16/17	1,391,000	1,391,000	1,391,000	1,391,000	No
1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	10,700	10,700	1,958,400	2,282,200	No
1516	OCSD EQUITY 15/16	2,293,000	2,293,000	6,854,000	6,854,000	No
1520	GREAT PARK COORDINATION AND SAMP UPDATE	3,500	5,000	132,000	187,500	No
1530	OCSD EQUITY 16/17	7,907,100	7,907,100	11,893,000	11,893,000	No
1549	HQ OFFICE IMPROVEMENTS	41,200	59,000	245,900	352,400	No
1554	OCSD CORF 15/16	1,202,900	1,202,900	5,988,000	5,988,000	No
1561	OCSD CORF 16/17	4,611,700	4,611,700	5,774,000	5,774,000	No
1716	PA1 ORCHARD HILLS NEIGHBORHOOD 3	34,100	52,700	326,700	391,600	No
1722	PA1 ORCHARD HILLS NEIGHBORHOOD 4	74,200	139,000	566,500	640,600	No
1762	PA9B PHASE 5 GATEWAY PARK RW PIPES	7,600	11,400	506,100	620,900	No
1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	229,300	266,100	568,700	689,000	No
3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	832,900	1,042,200	2,432,100	3,264,700	No
3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	832,900	1,042,200	2,432,100	3,264,700	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
3734	PA40 TRAVELAND RW FACILITIES	4,800	7,600	447,700	521,900	No
3735	PA39 PH2 RW FACILITIES	88,600	107,100	226,600	261,800	No
3750	SOCWA ETM PROTECTION - TRAIL BRIDGE CROSSING	5,500	14,800	951,500	979,300	No
3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	5,424,400	5,516,800	12,340,600	12,867,900	No
3779	SALT MANAGEMENT PLAN DEVELOPMENT	13,500	15,000	472,300	526,000	No
3780	SAN JOAQUIN RESERVOIR LINER REPLACEMENT	8,900	11,400	2,807,900	2,942,200	No
3808	SYPHON RESERVOIR EXPANSION	82,000	117,400	60,169,200	61,020,200	Yes
3977	PA51 TRABUCO RD, SR133 TO LY ST DW	2,300	2,300	156,200	211,800	No
3980	PA51 TRABUCO RD, SR133 TO LY ST SEWER	2,500	2,500	161,700	217,300	No
3983	PA51 TRABUCO RD, SR133 TO LY ST RW	8,500	8,500	480,700	601,000	No
4147	PA51 MARINE WAY RW ZNB	27,600	30,700	541,200	643,100	No
4153	PA51 MARINE WAY DW ZN3	21,500	24,100	420,200	503,600	No
4261	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - DW	17,000	17,000	723,800	890,300	No
4263	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - SS	10,100	10,100	436,700	557,000	No
4264	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - RW	4,300	4,300	194,700	250,300	No
4267	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - SEWER	41,500	41,500	1,493,800	1,706,600	No
4268	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - DW	14,200	14,200	486,200	560,300	No
4278	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - RW	14,600	14,600	464,200	538,300	No
4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	45,574,200	46,780,000	196,465,500	202,200,500	No
4318	PA40 PH3B RW CAPITAL FACILITIES	200	200	165,000	200,200	No
4366	TUSTIN LEGACY TUSTIN RANCH, BARRANCA, ARMSTRONG DW	7,100	7,100	343,200	417,300	No
4368	TUSTIN LEGACY TUSTIN RANCH, BARRANCA, ARMSTRONG RW	15,400	15,400	689,700	800,700	No
4394	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMPLEMENT	1,568,600	2,025,500	2,092,800	2,702,400	No
4395	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMPLEMENT	1,568,600	2,025,500	2,092,800	2,702,400	No
4397	LAWRP SYSTEM UPGRADES	5,800	8,700	1,418,700	1,511,300	No
4400	MULTI-ZONE BPS - ZONE A-C	477,100	629,000	2,795,200	3,091,300	No
4401	DRWF WELL 18 REHAB	768,900	841,100	770,000	844,100	No
4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	1,658,400	1,770,600	2,877,400	3,252,800	No
4457	MULTI-ZONE BPS - ZONE A-B	483,200	626,400	3,005,200	3,264,300	No
4467	MWRP REPAIRS: ACT SLUDGE, 2DARY TANKS, RAS/WAS	181,700	263,800	3,181,600	3,412,900	No
4510	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN RANCH DW	4,200	4,200	196,900	252,500	No
4511	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN RANCH RW	4,500	4,500	207,900	263,500	No
4512	PA5B PHASE 1A 12" ZONE 3 DW	4,700	4,700	132,000	174,600	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
4513	PA5B PHASE 1A AND 1B 6" & 8" RW	14,300	16,300	298,200	363,100	No
4514	PA5B PHASE 1A AND 1B 36" RW	80,000	80,000	1,769,400	1,936,000	No
4515	PA5B IRVINE BLVD 8" ZONE B RW	5,200	5,200	100,100	131,700	No
4528	PA40 NEIGHBORHOOD 2G BACKBONE RW FACILITIES	200	200	108,900	144,100	No
4557	PA6 PHASE 1 NEIGHBORHOOD 3 ZONE C RW	11,900	11,900	315,700	380,600	No
4614	PA51 REACH A SEWER IMPROVEMENTS	639,900	679,300	3,956,500	4,326,500	No
4620	PA51 LN ST FROM C ST TO LY ST DW	4,100	4,100	172,700	219,100	No
4621	PA51 LN ST FROM C ST TO LY ST RW	2,300	2,300	105,600	140,800	No
4645	PA51 C ST FROM LQ ST TO O ST DW	3,600	3,600	161,700	217,400	No
4646	PA51 C ST FROM LQ ST TO O ST RW	6,800	6,800	266,200	331,100	No
4647	PA51 LY ST FROM TRABUCO RD TO LQ ST RW	5,600	5,600	205,700	289,000	No
4648	PA51 LQ ST FROM O ST TO LY ST SEWER	5,800	5,800	255,200	310,800	No
4649	PA51 LQ ST FROM O ST TO LY ST RW	1,900	1,900	78,100	104,100	No
4650	PA51 LY ST FROM LQ ST TO IRVINE BLVD DW	800	800	51,700	88,900	No
4651	PA51 LY ST FROM LQ ST TO IRVINE BLVD SEWER	55,900	55,900	1,662,200	1,958,200	No
4652	PA51 LY ST FROM LQ ST TO IRVINE BLVD RW	27,800	27,800	938,300	1,252,800	No
4653	PA51 C ST FROM TRABUCO RD TO LQ ST SEWER	9,100	9,100	403,700	524,000	No
4680	PA18S HIDDEN CANYON 12" DW	7,300	7,300	315,700	399,100	No
4681	PA18S HIDDEN CANYON 6" & 8" RW	7,300	7,300	315,700	399,100	No
4717	PA1 ORCHARD HILLS NH 2 - 6" ZNB & 6" ZNC RW	5,600	5,600	238,700	322,000	No
4753	PA5B PHASE 2 6" RW	2,600	2,600	57,200	68,400	No
4824	PA51 LV ST FROM RIDGE VALLEY TO LY ST 18" SEWER	7,700	7,700	310,200	421,200	No
4825	PA51 LV ST FROM RIDGE VALLEY TO LY ST 12" RW	8,100	8,100	321,200	423,000	No
4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	424,500	434,400	10,959,800	11,446,400	No
4988	TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY DW	1,600	1,600	60,500	77,300	No
4989	TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY RW	7,700	7,700	282,700	375,300	No
4990	PA1 ORCHARD HILLS NEIGHBORHOOD 2, 6" ZNC RW	2,900	2,900	84,700	95,900	No
5016	PA51 C ST FROM LV ST TO TRABUCO SEWER	9,000	9,000	370,700	491,000	No
5027	BAKER WATER TREATMENT PLANT	10,421,500	10,971,000	96,852,000	99,331,000	No
5154	SJR SEISMIC EVALUATION (DSOD)	700	1,700	150,700	215,500	No
5156	LAGUNA CANYON RD RW PIPELINE CORROSION REPLACE	2,000	4,600	588,500	644,100	No
5168	PA18S HIDDEN CANYON 36" RW PIPELINE	58,700	58,700	2,208,200	2,485,700	No
5174	MAIN ST DIVERSION STRUCTURE GROUND SETTLING	95,700	131,000	191,400	241,400	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
5186	SJM SLS UPGRADE	1,200	3,100	181,000	222,400	No
5243	PA6 NEIGHBORHOOD 4B 6" RW ZONE D	23,100	23,100	526,900	649,100	No
5298	RAISE DW SYSTEM VALVES 16/17 UNDER RA	577,500	623,800	577,500	623,800	No
5302	RAISE MANHOLES TO GRADE 16/17 UNDER RA	346,500	374,300	346,500	374,300	No
5305	RAISE RW SYSTEM VALVES 16/17 UNDER RA	138,600	149,700	138,600	149,700	No
5338	MARSH MITIGATION CREDIT INVENTORY	36,300	45,600	36,300	45,600	No
5404	LAKE FOREST Z2-2RA PRV AT COMMERCENTRE	16,500	17,800	337,700	374,800	No
5406	EL MODENA INLET MODIFICATION	1,000	2,300	156,200	184,100	No
5407	ILP NORTH CONVERSION - RESERVOIR	7,044,100	7,138,100	14,382,500	14,761,800	No
5410	COASTAL ZONE 2 PRV MODIFICATION (DPR16)	1,900	4,600	187,100	228,500	No
5411	COMPRESSED NATURAL GAS MOTOR FUEL	23,000	24,200	68,800	72,500	No
5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	129,200	170,600	1,155,000	1,525,000	No
5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	613,700	820,100	921,300	1,231,200	No
5428	CAPITAL PLANNING SUPPORT 16/17 DW	242,000	427,000	242,000	427,000	No
5429	CAPITAL PLANNING SUPPORT 16/17 RW	242,000	427,000	242,000	427,000	No
5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	242,000	427,000	242,000	427,000	No
5431	WRMP UPDATE DW	44,000	81,000	132,000	243,000	No
5432	WRMP UPDATE RW	44,000	81,000	132,000	243,000	No
5442	SERVICE LINE, VALVE & MAIN REPLACEMENT-DW 16/17	1,685,000	1,703,500	1,685,000	1,703,500	No
5447	MECH & ELEC SYS REPLACEMENT - DW 16/17	880,000	880,000	880,000	880,000	No
5449	MECH & ELEC SYS REPLACEMENT - SEWER 16/17	550,000	550,000	550,000	550,000	No
5451	MECH & ELEC SYS REPLACEMENT - RW 16/17	660,000	660,000	660,000	660,000	No
5452	SERVICE LINE, VALVE & MAIN REPLACEMENT-RW 16/17	515,800	534,300	515,800	534,300	No
5453	WELLS 12 AND 13 ROOF HATCHES REPLACEMENT	223,900	243,200	357,000	417,200	No
5454	RESIDENTIAL METER REPLACEMENT-DW 16/17	267,300	291,400	267,300	291,400	No
5455	MWRP SYS REPLACEMENTS 16/17	442,200	445,900	442,200	445,900	No
5457	SEWER GEN SYS MODS 16/17	330,000	330,000	330,000	330,000	No
5469	MWRP FPS 2 ROOF REPLACEMENT	343,800	378,500	497,900	571,900	No
5470	NEWPORT COAST SLS AND FM RECOATING (REHAB)	1,033,300	1,104,700	1,432,200	1,571,100	No
5471	SEWER LATERAL & MAIN REPLACEMENT 16/17	218,900	237,400	218,900	237,400	No
5472	CSR METER REPLACEMENT-DW 16/17	213,200	222,500	213,200	222,500	No
5473	WELLS 11 AND 15 SURGE TANK REPLACEMENT	724,400	731,000	1,213,300	1,320,600	No
5475	GEN SYS MODS-DW 16/17	190,300	231,100	190,300	231,100	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
5476	RATTLESNAKE ZONE A BPS REBUILD	5,300	14,600	3,937,700	4,002,600	No
5478	LAWRP SYSTEM REPLACEMENTS 16/17	132,000	132,000	132,000	132,000	No
5479	1" TO 2" METER REPLACEMENT-DW 16/17	170,200	195,000	170,200	195,000	No
5480	GEN SYS MODS-RW 16/17	101,800	124,100	101,800	124,100	No
5481	CSR METER REPLACEMENT-RW 16/17	112,200	115,900	112,200	115,900	No
5483	1" TO 2" METER REPLACEMENT-RW 16/17	117,000	130,900	117,000	130,900	No
5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	1,585,500	1,594,700	1,590,800	1,609,300	No
5504	WELL MAINTENANCE AND REHABILITATION 16/17	220,000	220,000	220,000	220,000	No
5519	EAST IRVINE ZONE 1 TO 3 BPS PIPE/METER	64,900	70,500	600,100	670,400	No
5520	MAINTENANCE ACCESS FOR FOUR SEWER REACHES	1,400	3,300	368,000	409,400	No
5535	PA51 LQ ST FROM BOSQUE TO Z ST 12" SEWER	653,400	746,400	1,510,300	1,880,300	No
5536	PA51 LQ ST FROM BOSQUE TO Z ST 12" RW	117,600	142,400	416,900	518,700	No
5756	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12" ZN 4	29,800	36,200	243,100	315,300	No
5757	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN 4	29,500	33,500	240,900	296,500	No
5758	PA51 CADENCE - PUSAN TO CHINON 12" & 16"	72,400	81,700	271,700	327,300	No
5763	PA6 NEIGHBORHOOD 5A RW ZONE D	6,600	7,600	132,000	159,800	No
5788	PA51 ALTON PKWY SS RELOCATION 12" AND 18"	222,300	270,600	1,832,300	2,461,300	No
5816	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 12" DW	52,100	60,800	177,100	225,200	No
5817	PA51 ALTON, TECHNOLOGY TO MUIRLANDS SS RELOCATION	412,000	443,000	1,326,300	1,474,300	No
5818	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 16" RW	105,500	120,400	344,300	409,100	No
5823	ILP NORTH CONVERSION - PIPELINES	6,618,000	6,833,300	10,991,100	11,592,500	No
5919	PA1 ORCHARD HILLS, NEIGHBORHOOD 1, 16" ZC 6" ZC+	259,300	327,700	521,400	724,900	No
6010	TUSTIN LEGACY PARK AVE FROM JAMBOREE TO VICTORY SS	18,400	21,500	64,900	83,500	No
6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	93,400	107,200	664,800	762,900	No
6016	PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW	102,400	123,300	156,200	208,100	No
6017	PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS	74,700	91,400	115,500	158,200	No
6018	PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW	966,500	1,105,200	1,412,400	1,726,900	No
6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	4,004,100	4,218,000	9,872,500	10,399,800	No
6048	PA51 MARINE WAY, ALTON TO BARRANCA 18" SS	59,200	59,200	1,424,500	1,776,000	No
6056	PA40 8TH ST RIDGE VALLEY TO C ST CAPITAL 6" RW	18,700	22,600	283,800	381,900	No
6086	PA51 MARINE WAY FROM ALTON TO BARRANCA 12" DW ZN 3	11,200	11,200	238,700	301,600	No
6087	PA51 MARINE WAY, ALTON TO BARRANCA 16" RW ZN B	13,400	13,400	281,600	352,100	No
6109	TUSTIN LEGACY PARK AVE & MOFFETT DR 12" DW	232,900	254,800	579,700	681,600	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
6110	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 15" SS	330,800	367,900	387,200	461,400	No
6111	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 6" RW	227,800	249,700	568,700	670,600	No
6121	VAULT LID REPLACEMENT - DW	3,300	8,500	397,700	492,200	No
6122	VAULT LID REPLACEMENT - SEWER	3,300	5,900	96,300	146,300	No
6123	VAULT LID REPLACEMENT - RW	1,600	4,200	195,300	245,300	No
6160	CENTRALIZED CONTROL ROOM AT MWRP	1,800	4,400	170,000	211,600	No
6161	CENTRALIZED CONTROL ROOM AT MWRP	1,800	4,400	170,000	211,600	No
6165	DRWF SURGE TANKS	427,900	451,000	528,600	580,400	No
6167	OPS CENTER PERMANENT GENERATOR	535,000	599,800	618,800	729,900	No
6168	SAN JOAQUIN MARSH IMPROVEMENTS	1,562,300	1,670,100	1,776,700	1,943,300	No
6198	IIC ZONE B BPS UPGRADES	244,800	263,900	734,600	779,000	No
6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	60,000	94,200	60,000	94,200	No
6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	60,000	94,200	60,000	94,200	No
6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	60,000	94,200	60,000	94,200	No
6208	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 12" ZONE 3	63,600	77,400	82,500	110,400	No
6209	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6" ZONE B	40,300	50,500	53,900	74,300	No
6210	ASSET OPTIMIZATION - SAND CANYON PROFESSIONAL CTR	3,572,600	3,602,400	17,624,300	17,670,600	No
6212	NTS INFILTRATION STUDY	32,400	38,800	64,900	77,900	No
6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	1,596,700	1,698,100	2,913,900	3,145,200	No
6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	165,300	215,800	2,976,900	3,245,200	No
6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	75,700	75,700	522,500	578,000	No
6216	NORTHWOOD ZONE B BPS DEMOLITION	5,500	14,800	539,000	622,400	No
6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	819,500	1,023,100	819,500	1,023,100	No
6245	WATER BANKING AGREEMENTS 16/18	220,100	312,600	440,000	625,000	No
6247	WATER BANKING PLANNING 16/17	137,500	230,000	137,500	230,000	No
6304	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 12" Z4R	25,700	31,500	49,500	66,200	No
6306	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 6" ZC	25,700	31,500	49,500	66,200	No
6331	PA51 GP CULTIVATE (BOSQUE TO 500 E/O BOSQUE) 16"	7,900	7,900	220,000	271,900	No
6400	NEWPORT COAST SLS IMPROVEMENTS	1,523,400	1,610,700	2,059,200	2,216,600	No
6401	ZONE 1 RESERVOIR NO. 2	817,600	995,300	12,626,300	13,033,300	No
6470	RANCHO PARKWAY ZONE C RECYCLED WATER PIPELINE	144,600	157,400	997,800	1,146,000	No
6476	PA51 MARINE WAY. RIDGE VALLEY TO 3000' EAST	181,100	213,700	426,800	547,200	No
6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	350,000	393,200	596,200	716,500	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
6512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" DW	224,200	265,800	355,300	466,300	No
6513	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" SS	595,300	720,100	938,300	1,252,800	No
6514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10" RW	335,500	404,800	536,800	721,800	No
6534	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" DW Z4	22,300	28,100	44,000	60,700	No
6535	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" RW ZC	55,300	66,800	106,700	140,200	No
6536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" DW	323,200	392,500	531,300	716,300	No
6537	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" SS	199,500	241,100	333,300	462,800	No
6538	PA51 GP-2 ST (BOSQUE TO GP1 ST) 10" RW	661,900	786,700	1,049,400	1,363,900	No
6552	PA51 GP BENCHMARK AND PERSPECTIVE 12" DW Z4R	76,500	92,500	147,400	195,700	No
6553	PA51 GP BENCHMARK AND PERSPECTIVE 16" SS	126,700	152,900	244,200	323,800	No
6554	PA51 GP BENCHMARK AND PERSPECTIVE 6" RW ZC	67,500	81,200	129,800	170,500	No
6595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6" RW ZB	82,100	99,100	180,400	239,700	No
6683	PA51 GP BENCHMARK AND MODJEKSA (DISTRICT 4) 12" DW	88,800	105,500	150,700	195,200	No
6684	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4) 10"/6"	565,000	680,200	971,300	1,285,800	No
6732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6" RW ZB	95,200	113,200	206,800	269,700	No
6747	PA51 GP IRVINE BLVD (AT MERIT) 6" RW ZC	18,100	23,400	34,100	45,300	No
6765	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 12" DW Z1	89,900	108,700	116,600	155,500	No
6766	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 16" RW ZA	176,200	212,100	226,600	298,900	No
6823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16" RW ZC	209,700	252,400	323,400	427,000	No
6849	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	284,900	310,100	442,900	501,500	No
6850	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	31,500	34,400	49,700	56,500	No
6915	PA 6 NBHD 5A 6" AND 8" RECYCLED WATER MAIN ZONE D	235,100	282,500	402,600	530,300	No
6956	PURCHASE PVID EATON PROPERTY	118,400	118,400	10,240,000	10,240,000	No
7009	FPS2 PIPELINE MANIFOLD REPLACEMENT	166,100	258,600	844,800	1,020,600	No
7012	PA1 NHB3 ORCHARD HILLS 16" DW Z5	100,700	132,600	162,800	214,700	No
7013	PA1 NHB3 ORCHARD HILLS 6"8"10"12" RW ZC	271,900	332,600	367,400	482,200	No
7017	PA1 NHB3 ORCHARD HILLS 6"8" RW ZC+	150,100	185,200	203,500	270,200	No
7022	PA51 GREAT PARK GP-2 (FROM GP-3 TO BOSQUE) 12"RWZC	132,800	164,100	180,400	239,700	No
7024	SANTA ANA DELHI DIVERSION PROJECT	155,200	168,900	210,000	228,500	No
7070	OCSJ SJHPC/ GRS	798,700	798,700	1,000,000	1,000,000	No
7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	110,000	137,800	110,000	137,800	No
7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	110,000	137,800	110,000	137,800	No
7084	REPLACEMENT PLANNING DW	49,900	133,800	440,000	625,000	No

IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget
Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
7085	REPLACEMENT PLANNING RW	49,900	133,800	440,000	625,000	No
7086	CALIFORNIA AVE RW PIPELINE, ACADEMY TO THEORY	13,000	17,600	732,000	809,800	No
7093	DRWF WELL 7 REHAB	1,100	2,900	770,000	844,100	No
7094	LAKE FOREST ZN A RESERVOIR DEMOLITION	160,600	188,500	160,600	188,500	No
7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	24,600	30,800	299,300	308,600	No
7096	METER AND VAULT FOR OSO RESERVOIR	2,500	6,400	375,100	449,300	No
7097	MICHELSON DI SFM RELINING	4,000	10,500	1,367,300	1,506,200	No
7098	REBUILD SMH ON MAIN ST E/O MACARTHUR	500	1,200	178,200	220,700	No
7099	SEA WATCH RW MAIN REPLACEMENT (S/O PACIFIC MIST)	2,100	5,500	720,500	794,700	No
7100	SEWER LINE REPAIRS	500	1,300	156,200	202,600	No
7101	UCI CT RW CONV ACADEMY WAY	951,500	988,600	951,500	988,600	No
7102	UCI CT RW CONV CALIFORNIA, UNIV TO ACADEMY	346,500	383,600	346,500	383,600	No
7103	UCI CT RW CONVERSION ONSITE PIPELINES	79,800	79,800	1,050,000	1,050,000	No
7112	VACTOR ACCESS TO SMH ON SO IRVINE INTERCEPTOR	1,400	3,800	347,600	421,800	No
7117	OPS CENTER ROOF REPLACEMENT	166,000	272,500	166,000	272,500	No
7118	OPS CENTER ROOF REPLACEMENT	166,000	272,500	166,000	272,500	No
7119	OPS CENTER ROOF REPLACEMENT	166,000	194,700	166,000	194,700	No
7133	SERRANO SUMMIT DW IMPROVEMENTS	97,300	174,800	402,600	522,900	No
7134	SERRANO SUMMIT RW IMPROVEMENTS	68,900	137,700	402,600	522,900	No
7135	SERRANO SUMMIT SEWER IMPROVEMENTS	62,600	130,200	325,600	427,500	No
7136	SANTIAGO HILLS II DOMESTIC WATER BPS	275,700	323,400	3,165,900	3,327,900	No
7137	OPA ZONE C+ PIPELINES	933,500	1,007,300	1,550,900	1,735,900	No
7138	SANTIAGO HILLS II DOMESTIC WATER RESERVOIR	746,700	846,400	10,263,800	10,485,800	No
7139	SANTIAGO HILLS II RECYCLED WATER BPS	275,700	323,400	3,165,900	3,327,900	No
7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	17,200	21,800	4,559,800	4,814,300	Yes
7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	302,600	404,900	454,300	607,900	No
7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	126,500	172,800	126,500	172,800	No
7156	NTS INSTRUMENTATION	165,300	220,900	330,000	441,000	No
7158	NON-POTABLE WATER STUDIES 16/17	60,000	78,500	60,000	78,500	No
7170	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	131,400	155,400	148,000	181,400	No
7171	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	131,400	155,400	148,000	181,400	No
7172	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	131,400	155,400	148,000	181,400	No
7174	GENERAL PLANT REGIONAL 16/17 DW	432,500	432,500	432,500	432,500	No

**IRVINE RANCH WATER DISTRICT
2016/17 Capital Budget**

Project Expenditures by Project Number

<u>Project No.</u>	<u>Project Title</u>	<u>FY Direct</u>	<u>FY Dir + GA</u>	<u>Total Direct</u>	<u>Total Dir + GA</u>	<u>Flag</u>
7175	GENERAL PLANT REGIONAL 16/17 SEWER	292,200	292,200	292,200	292,200	No
7176	GENERAL PLANT REGIONAL 16/17 RW	285,300	285,300	285,300	285,300	No
7177	GENERAL PLANT REPLACEMENT 16/17 DW	2,087,600	2,087,600	2,087,600	2,087,600	No
7178	GENERAL PLANT REPLACEMENT 16/17 SEWER	853,900	853,900	853,900	853,900	No
7179	GENERAL PLANT REPLACEMENT 16/17 RW	1,548,200	1,548,200	1,548,200	1,548,200	No
7180	GENERAL PLANT - CONSERVATION	80,000	80,000	80,000	80,000	No
7233	BAKER SOLAR	45,400	54,700	45,400	54,700	No
Grand Total:		\$160,178,300	\$171,209,400	\$676,056,600	\$715,050,900	

IRVINE RANCH WATER DISTRICT

2016/17 Capital Budget

Flagged Projects

<u>Project No.</u>	<u>Project Title</u>
1100	LAKE FOREST WELL 1 DRILLING
1117	LAKE FOREST WELL 1 WELLHEAD
1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY
3808	SYPHON RESERVOIR EXPANSION
7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING

**IRVINE RANCH WATER DISTRICT
FY 2016/17 Capital Budget
Top 10 Project Groups**

Rank by FY 16/17 Expenditure	Name of Group	FY16/17 Forecasted Expenditures (\$ Millions)	Expended to Date (\$ Millions)	Forecasted Future Expenditures (\$ Millions)	Project Total (\$ Millions)
1	MWRP Biosolids & Energy Recovery Facilities	\$45.6	126.2	24.7	196.5
2	OCSD / CORF / Solids Facilities	\$18.2	0.6	108.0	126.8
3	ILP North Conversion	\$14.6	1.4	11.0	27.0
4	Water Banking & Dry-Year Programs	\$11.5	3.8	20.0	35.3
5	Baker Water Treatment Plant	\$10.4	76.0	10.5	96.9
6	Planning Area 51 (Great Park Neighborhoods)	\$9.5	8.6	25.6	43.7
7	General Plant	\$5.6	0.0	0.0	5.6
8	Annual Operational System Repair and Rehabilitation	\$5.0	0.0	6.6	11.6
9	Business Software	\$4.8	0.8	3.5	9.1
10	Asset Optimization	\$4.6	5.6	14.0	24.2
	Subtotal for Top 10 Project Groups	\$129.8	\$223.0	\$223.9	\$576.7
	Total All Projects	\$160.2			

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 1. MWRP Biosolids and Energy Recovery Facilities

Project Description

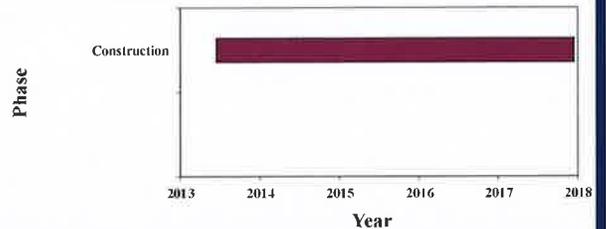
The project includes the construction of facilities for sludge thickening, acid-phase anaerobic digestion, dewatering, drying and pelletization, energy generation using micro-turbines, and use of pellets as a fertilizer or e-fuel. It will also include a solids receiving station to allow processing of dewatered sludge from the Los Alisos Water Recycled Water Plant (LAWRP). A FOG receiving station is included to increase methane production by the digesters and energy production capabilities.



FY 2016/17 Key Milestones:

	Date
Continue MWRP Biosolids and Energy Recovery Facilities Construction	December, 2017
Start-up sludge thickening, digestion, and dewatering facilities.	May, 2016

MWRP Biosolids & Energy Recovery Facilities



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 15,127,844	\$ 89,391,803	\$ 91,945,854	\$ 196,465,500	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 15,127,844	\$ 89,391,803	\$ 91,945,854	\$ 196,465,500	

Project Status

In March, 2013, the Board of Directors awarded the construction contract to Filance Balfour Beatty Joint Venture. Construction is ongoing with the MWRP Biosolids Facilities producing Class B solids (dewatered cake for trucking) in early 2017 and Class A (pellets) in late 2017.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	\$ 196,465,500	\$ 45,574,200	\$ 24,710,314	\$ 126,180,986	
TOTAL		\$ 196,465,500	\$ 45,574,200	\$ 24,710,314	\$ 126,180,986	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 2. OCSD CORF, Equity, and Solids Facilities

Project Description

OCSD's Capital Outlay Revolving Fund (CORF) funds OCSD projects such as plant upgrades for secondary treatment and the Groundwater Replenishment System (GWRS).

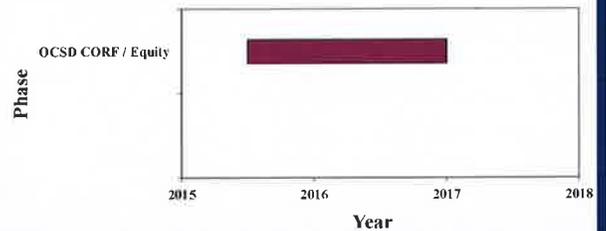


FY 2016/17 Key Milestones:

Date

FY 2016/17 Key Milestones:	Date

OCSD CORF, Equity, & Solids Facilities



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 4,190,580	\$ 9,186,214	\$ 19,523,206	\$ 32,900,000	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 4,190,580	\$ 9,186,214	\$ 19,523,206	\$ 32,900,000	

Project Status

OCSD invoices IRWD on a quarterly basis for IRWD's share of funding OCSD construction. IRWD will continue to pay a portion of CORF on an annual basis.

For FY 15/16 CORF payments, staff expects to pay its majority in FY 15/16, and the remainder in FY 16/17. For FY 16/17 CORF payments, staff expects to pay its majority in FY 16/17 and will carryover the remainder to FY 17/18.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
1429	OCSD SOLIDS HANDLING 16/17	\$ 1,391,000	\$ 1,391,000	\$ -	\$ -	
1516	OCSD EQUITY 15/16	\$ 6,854,000	\$ 2,293,000	\$ 4,561,000	\$ -	
1530	OCSD EQUITY 16/17	\$ 11,893,000	\$ 7,907,100	\$ 3,985,900	\$ -	
1554	OCSD CORF 15/16	\$ 5,988,000	\$ 1,202,900	\$ 4,218,061	\$ 567,039	
1561	OCSD CORF 16/17	\$ 5,774,000	\$ 4,611,700	\$ 1,162,300	\$ -	
7070	OCSD SJHPC/GRS	\$ 1,000,000	\$ 798,700	\$ 201,300	\$ -	
TOTAL		\$ 32,900,000	\$ 18,204,400	\$ 14,128,561	\$ 567,039	

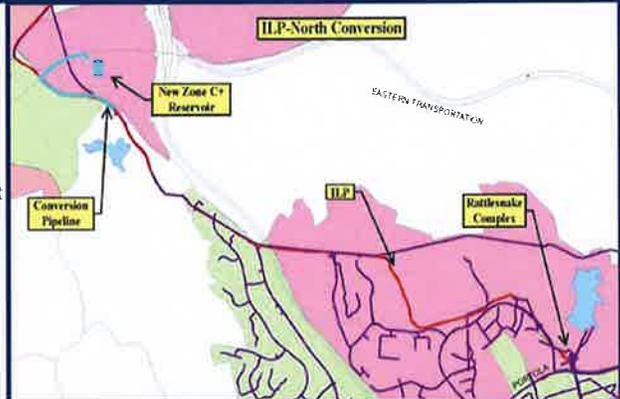
**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 3. Irvine Lake Pipeline North Conversion

Project Description

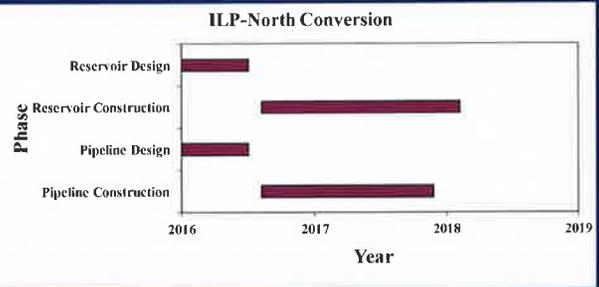
The project includes converting the northern portion of the Irvine Lake Pipeline (ILP) from untreated water to recycled water through the construction of a new Zone C+ Reservoir and associated facilities. The project also includes modifications at the Rattlesnake Complex and Zone A-C booster pump station (BPS).

The project is being designed and constructed under three separate projects. One project will design and construct the proposed Zone C+ reservoir and the modifications at the Rattlesnake Complex and the Zone A-C BPS. A second project will design and construct the offsite reservoir inlet and outlet piping. A third project will design and construct the recycled water distribution pipelines in Jamboree and Santiago Canyon Road. All three projects are being executed in parallel.



FY 2016/17 Key Milestones:

	Date
Design complete	June, 2016
Construction award	August, 2016
Construction complete	January, 2018



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 17,767,603	\$ 273,961	\$ 8,882,936	\$ 26,924,500	
Existing Offsets	\$ (6,417,573)	\$ (98,953)	\$ (3,208,474)	\$ (9,725,000)	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 11,350,030	\$ 175,007	\$ 5,674,462	\$ 17,199,500	

Project Status

Design completion for the reservoir and offsite pipelines is scheduled for June 2016. The reservoir will be constructed by IRWD, and the offsite pipelines will be constructed by The Irvine Company under a reimbursement agreement. The ILP North Conversion from untreated water to recycled water is anticipated to be complete by January 2018.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
5823	ILP NORTH CONVERSION - PIPELINES	\$ 10,991,100	\$ 6,618,000	\$ 3,937,542	\$ 435,558	
5407	ILP NORTH CONVERSION - RESERVOIR	\$ 14,382,500	\$ 7,044,100	\$ 6,421,286	\$ 917,114	
7137	OPA ZONE C+ PIPELINES	\$ 1,550,900	\$ 933,500	\$ 617,400	\$ -	
TOTAL		\$ 26,924,500	\$ 14,595,600	\$ 10,976,227	\$ 1,352,673	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 4. Water Banking and Dry-Year Programs

Project Description

Water Banking and Dry-Year Programs provide IRWD with contingency water storage and supplemental supply to augment IRWD's imported supplies during dry-year periods. This group includes the following projects and features:

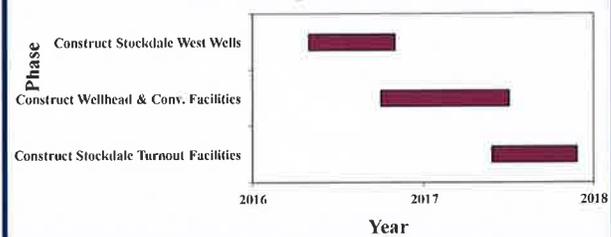
- Stockdale West: 269 acres of recharge facilities constructed; CEQA, design and construct 3 future recovery wells, pipelines and turn-in facilities.
- Stockdale West Turnout Facilities Project: Design and construct one future 100 cfs turnout from Cross Valley Canal to Stockdale West and Strand Ranch recharge basins.
- Rosedale Drought Relief Project Design and Well Const: Cost Share in the design and construction of six joint use wells and conveyance facilities to increase recovery capacity by 15 cfs.
- Stockdale Storage for Recovery Capacity: Future long term lease of 50,000 AF of storage capacity from Rosedale-Rio Bravo Water Storage District.
- PVID Property: Purchase of approximately 620 acres in Palo Verde Irrigation District for proposed future water supply reliability benefit - agreements to be developed.



FY 2016/17 Key Milestones:

	Date
Stockdale Storage for Recovery Capacity	November, 2016
Rosedale Drought Relief Project Facilities wellhead design and constructio	December, 2016
Construction of three Stockdale West wells	October, 2016
Construction of wellhead equipping and conveyance facilities	June, 2017
Construction Stockdale West Turnout facilities	November, 2017

Water Banking & Dry-Year Programs



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 6,716,552	\$ -	\$ 27,904,848	\$ 34,621,400	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 6,716,552	\$ -	\$ 27,904,848	\$ 34,621,400	

Project Status

Construct and equip three wells, pipelines, CVC turn-in, and CVC turn-out (Stockdale West Integrated Banking Project). Complete lease of 50,000 AF storage from Rosedale-Rio Bravo Water Storage District and fund two Rosedale wells as part of storage lease (Stockdale Storage for Recovery Capacity). Complete design review for equipping six joint use recovery wells, conveyance pipelines and turn-in (Rosedale Drought Relief Project Facilities). Complete long term exchange program agreements with water banking partners (Water Banking Agreements). Investigate potential water supply/exchange opportunities, expand water rights inventory and additional property search (Water Banking Planning). Complete the purchase of 616.19 acres in Palo Verde Irrigation District (Purchase PVID Eaton Property).

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
3766	STOCKDALE WEST INTEGRATED WATER BANKING	\$ 12,340,600	\$ 5,424,400	\$ 5,770,144	\$ 1,146,056	
5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	\$ 1,590,800	\$ 1,585,500	\$ 5,300	\$ -	
6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	\$ 9,872,500	\$ 4,004,100	\$ 3,257,780	\$ 2,610,620	
6245	WATER BANKING AGREEMENTS 16/18	\$ 440,000	\$ 220,100	\$ 219,900	\$ -	
6247	WATER BANKING PLANNING 16/17	\$ 137,500	\$ 137,500	\$ -	\$ -	
6956	PURCHASE PVID EATON PROPERTY	\$ 10,240,000	\$ 118,400	\$ 10,121,600	\$ -	
TOTAL		\$ 34,621,400	\$ 11,490,000	\$ 19,374,723	\$ 3,756,677	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 6. Planning Area 51 (Great Park Neighborhoods) Development

Project Description

The Fiscal Year 2016/17 development activities for Planning Areas 30 and 51 include the infrastructure required to support the Great Park Neighborhoods "District 4", "District 7" and the Technology Extension Project. The primary capital facilities planned for this year include:

"District 4" Pipelines: 12-inch and 36-inch domestic water pipelines, 12-inch and 16-inch sanitary sewer pipelines and 6-inch, 12-inch and 16-inch recycled water pipelines.

"District 7" Pipelines: 6-inch recycled water pipelines.

"Technology Extension Project" Pipelines: 24-inch recycled water pipeline.

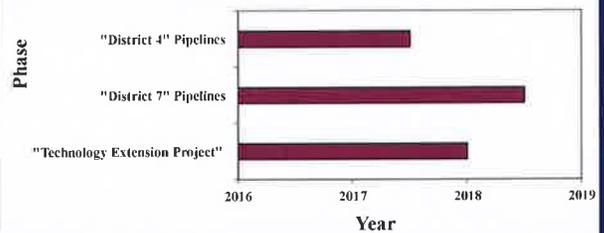


FY 2016/17 Key Milestones:

Date

"District 4" Pipelines	June, 2017
"District 7" Pipelines	June, 2018
"Technology Extension Project" Pipelines	January, 2018

PA 51 (Great Park Neighborhoods)



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 35,512,200	\$ -	\$ -	\$ 35,512,200	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 35,512,200	\$ -	\$ -	\$ 35,512,200	

Project Status

Construction of "District 4" pipelines in backbone streets is scheduled to be complete in June 2017. Construction of "Technology Extension" and "District 7" pipelines is scheduled to be complete in January and June 2018, respectively.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
1015	TECHNOLOGY DR AND LAGUNA CANYON RD RW ZONE	\$ 3,223,500	\$ 1,404,700	\$ 1,771,463	\$ 47,337	
1167	GREAT PARK COORDINATION AND SAMP UPDATE	\$ 132,000	\$ 3,500	\$ 34,105	\$ 94,395	
3977	PA51 TRABUCO RD, SR133 TO LY ST DW	\$ 156,200	\$ 2,300	\$ 32,771	\$ 121,129	
3980	PA51 TRABUCO RD, SR133 TO LY ST SEWER	\$ 161,700	\$ 2,500	\$ 25,199	\$ 134,001	
3983	PA51 TRABUCO RD, SR133 TO LY ST RW	\$ 480,700	\$ 8,500	\$ 144,967	\$ 327,233	
4147	PA51 MARINE WAY RW ZNB	\$ 541,200	\$ 27,600	\$ 510,370	\$ 3,230	
4153	PA51 MARINE WAY DW ZN3	\$ 420,200	\$ 21,500	\$ 395,244	\$ 3,456	
4261	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - D	\$ 723,800	\$ 17,000	\$ 101,360	\$ 605,440	
4263	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - S	\$ 436,700	\$ 10,100	\$ 75,211	\$ 351,389	
4264	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - R	\$ 194,700	\$ 4,300	\$ 120,635	\$ 69,765	
4267	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - S	\$ 1,493,800	\$ 41,500	\$ 689,817	\$ 762,483	
4268	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - D	\$ 486,200	\$ 14,200	\$ 107,668	\$ 364,332	
4278	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - R	\$ 464,200	\$ 14,600	\$ 299,462	\$ 150,138	
4614	PA51 REACH A SEWER IMPROVEMENTS	\$ 3,956,500	\$ 639,900	\$ 1,601,113	\$ 1,715,487	
4620	PA51 LN ST FROM C ST TO LY ST DW	\$ 172,700	\$ 4,100	\$ 33,807	\$ 134,793	
4621	PA51 LN ST FROM C ST TO LY ST RW	\$ 105,600	\$ 2,300	\$ 97,053	\$ 6,247	
4645	PA51 C ST FROM LQ ST TO O ST DW	\$ 161,700	\$ 3,600	\$ 43,956	\$ 114,145	
4646	PA51 C ST FROM LQ ST TO O ST RW	\$ 266,200	\$ 6,800	\$ 148,340	\$ 111,060	
4647	PA51 LY ST FROM TRABUCO RD TO LQ ST RW	\$ 205,700	\$ 5,600	\$ 199,819	\$ 281	
4648	PA51 LQ ST FROM O ST TO LY ST SEWER	\$ 255,200	\$ 5,800	\$ 53,050	\$ 196,350	
4649	PA51 LQ ST FROM O ST TO LY ST RW	\$ 78,100	\$ 1,900	\$ 67,517	\$ 8,683	
4650	PA51 LY ST FROM LQ ST TO IRVINE BLVD DW	\$ 51,700	\$ 800	\$ 22,990	\$ 27,910	

Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17

Project Group Name: 6. Planning Area 51 (Great Park Neighborhoods) Development

Project Group - Continued

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
4651	PA51 LY ST FROM LQ ST TO IRVINE BLVD SEWER	\$ 1,662,200	\$ 55,900	\$ 692,864	\$ 913,436	
4652	PA51 LY ST FROM LQ ST TO IRVINE BLVD RW	\$ 938,300	\$ 27,800	\$ 680,989	\$ 229,511	
4653	PA51 C ST FROM TRABUCO RD TO LQ ST SEWER	\$ 403,700	\$ 9,100	\$ 194,824	\$ 199,776	
4824	PA51 LV ST FROM RIDGE VALLEY TO LY ST 18" SEWER	\$ 310,200	\$ 7,700	\$ 96,038	\$ 206,462	
4825	PA51 LV ST FROM RIDGE VALLEY TO LY ST 12" RW	\$ 321,200	\$ 8,100	\$ 91,095	\$ 222,005	
5016	PA51 C ST FROM LV ST TO TRABUCO SEWER	\$ 370,700	\$ 9,000	\$ 249,799	\$ 111,901	
5535	PA51 LQ ST FROM BOSQUE TO Z ST 12" SEWER	\$ 1,510,300	\$ 653,400	\$ 777,473	\$ 79,427	
5536	PA51 LQ ST FROM BOSQUE TO Z ST 12" RW	\$ 416,900	\$ 117,600	\$ 298,745	\$ 555	
5756	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12" ZN	\$ 243,100	\$ 29,800	\$ 213,300	\$ -	
5757	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN	\$ 240,900	\$ 29,500	\$ 211,400	\$ -	
5758	PA51 CADENCE - PUSAN TO CHINON 12" & 16"	\$ 271,700	\$ 72,400	\$ 199,300	\$ -	
5788	PA51 ALTON PKWY SS RELOCATION 12" AND 18"	\$ 1,832,300	\$ 222,300	\$ 836,363	\$ 773,637	
5816	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 12" DW	\$ 177,100	\$ 52,100	\$ 121,821	\$ 3,179	
5817	PA51 ALTON, TECHNOLOGY TO MUIRLANDS SS REL	\$ 1,326,300	\$ 412,000	\$ 895,646	\$ 18,654	
5818	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 16" RW	\$ 344,300	\$ 105,500	\$ 235,267	\$ 3,533	
6016	PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW	\$ 156,200	\$ 102,400	\$ 53,800	\$ -	
6017	PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS	\$ 115,500	\$ 74,700	\$ 40,800	\$ -	
6018	PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW	\$ 1,412,400	\$ 966,500	\$ 445,900	\$ -	
6048	PA51 MARINE WAY, ALTON TO BARRANCA 18" SS	\$ 1,424,500	\$ 59,200	\$ 918,358	\$ 446,942	
6086	PA51 MARINE WAY FROM ALTON TO BARRANCA 12"	\$ 238,700	\$ 11,200	\$ 224,278	\$ 3,222	
6087	PA51 MARINE WAY, ALTON TO BARRANCA 16" RW	\$ 281,600	\$ 13,400	\$ 264,942	\$ 3,258	
6208	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 12" ZON	\$ 82,500	\$ 63,600	\$ 18,900	\$ -	
6304	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 12"	\$ 49,500	\$ 25,700	\$ 23,800	\$ -	
6306	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 6" Z	\$ 49,500	\$ 25,700	\$ 23,800	\$ -	
6331	PA51 GP CULTIVATE (BOSQUE TO 500 E/O BOSQUE)	\$ 220,000	\$ 7,900	\$ 212,100	\$ -	
6476	PA51 MARINE WAY, RIDGE VALLEY TO 3000' EAST	\$ 426,800	\$ 181,100	\$ 245,700	\$ -	
6512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" DW	\$ 355,300	\$ 224,200	\$ 131,100	\$ -	
6513	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" SS	\$ 938,300	\$ 595,300	\$ 343,000	\$ -	
6514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10" RW	\$ 536,800	\$ 335,500	\$ 201,300	\$ -	
6534	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" DW	\$ 44,000	\$ 22,300	\$ 21,700	\$ -	
6535	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" RW	\$ 106,700	\$ 55,300	\$ 51,400	\$ -	
6536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" DW	\$ 531,300	\$ 323,200	\$ 208,100	\$ -	
6537	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" SS	\$ 333,300	\$ 199,500	\$ 133,800	\$ -	
6538	PA51 GP-2 ST (BOSQUE TO GP1 ST) 10" RW	\$ 1,049,400	\$ 661,900	\$ 387,500	\$ -	
6552	PA51 GP BENCHMARK AND PERSPECTIVE 12" DW Z	\$ 147,400	\$ 76,500	\$ 70,900	\$ -	
6553	PA51 GP BENCHMARK AND PERSPECTIVE 16" SS	\$ 244,200	\$ 126,700	\$ 117,500	\$ -	
6554	PA51 GP BENCHMARK AND PERSPECTIVE 6" RW ZC	\$ 129,800	\$ 67,500	\$ 62,300	\$ -	
6595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6" RW	\$ 180,400	\$ 82,100	\$ 98,300	\$ -	
6683	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4)	\$ 150,700	\$ 88,800	\$ 61,900	\$ -	
6684	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4)	\$ 971,300	\$ 565,000	\$ 406,300	\$ -	
6732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6" R	\$ 206,800	\$ 95,200	\$ 111,600	\$ -	
6747	PA51 GP IRVINE BLVD (AT MERIT) 6" RW ZC	\$ 34,100	\$ 18,100	\$ 16,000	\$ -	
6823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16" RW	\$ 323,400	\$ 209,700	\$ 113,700	\$ -	
7022	PA51 GREAT PARK GP-2 (FROM GP-3 TO BOSQUE) 12"	\$ 180,400	\$ 132,800	\$ 47,600	\$ -	
6209	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6" ZON	\$ 53,900	\$ 40,300	\$ 13,600	\$ -	
TOTAL		\$ 35,512,200	\$ 9,506,600	\$ 17,440,817	\$ 8,564,783	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 7. General Plant

Project Description

General plant assets are portable and rolling stock capital that are funded from both new capital and replacement funds, depending on whether demand is generated from new development growth, or to replace existing assets. Some of the major components included in the General Plant project group for FY 2016-17 are:

Information systems: New and replacement computer systems, audio visual equipment, and new software packages;

Transportation equipment: New and replacement vehicles and utility carts;

Laboratory equipment: Miscellaneous laboratory equipment to meet regulatory requirements, as well as equipment necessary to implement the proposed process control monitoring for the biosolids and energy recovery facilities;

Office furniture and equipment: Reconfiguring the Water Quality office space and updating fitness and strength training facilities;

Equipment: Three 600 kW emergency generators that must be replaced for emission requirements, an additional hydro excavator, and a vactor that was partially funded in FY 2015-16; and

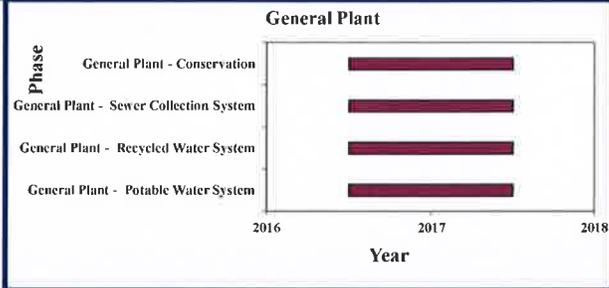
Structure improvements: Replacing carpet at the Sand Canyon facility.



FY 2016/17 Key Milestones:

Date

Key Milestones	Date



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 212,092	\$ 4,569,700	\$ 797,908	\$ 5,579,700	
Existing Offsets	\$ -	\$ (23,500)	\$ -	\$ (23,500)	Salvage Value
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 212,092	\$ 4,546,200	\$ 797,908	\$ 5,556,200	

Project Status

General Plant projects are budgeted on an annual basis.

Project Group

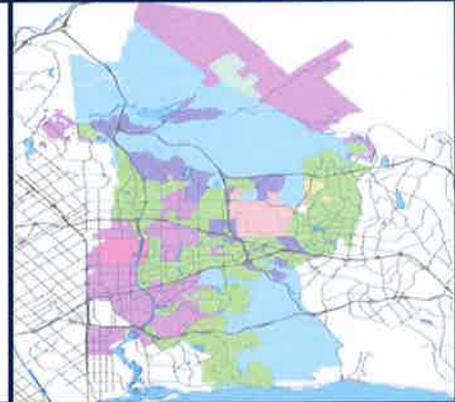
Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
7174	GENERAL PLANT REGIONAL 16/17 DW	\$ 432,500	\$ 432,500	\$ -	\$ -	
7175	GENERAL PLANT REGIONAL 16/17 SEWER	\$ 292,200	\$ 292,200	\$ -	\$ -	
7176	GENERAL PLANT REGIONAL 16/17 RW	\$ 285,300	\$ 285,300	\$ -	\$ -	
7177	GENERAL PLANT REPLACEMENT 16/17 DW	\$ 2,087,600	\$ 2,087,600	\$ -	\$ -	
7178	GENERAL PLANT REPLACEMENT 16/17 SEWER	\$ 853,900	\$ 853,900	\$ -	\$ -	
7179	GENERAL PLANT REPLACEMENT 16/17 RW	\$ 1,548,200	\$ 1,548,200	\$ -	\$ -	
7180	GENERAL PLANT - CONSERVATION	\$ 80,000	\$ 80,000	\$ -	\$ -	
TOTAL		\$ 5,579,700	\$ 5,579,700	\$ -	\$ -	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 8. Annual Operational System Repair and Rehabilitation

Project Description

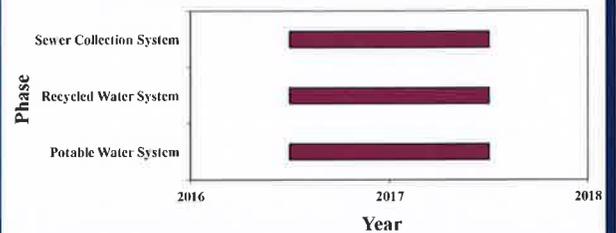
This series of projects is used for system repairs and replacements. Examples of these projects include pipeline repairs, distribution system valve replacements, and treatment plant equipment repairs.



FY 2016/17 Key Milestones:

Date

Annual Operational System Repair & Rehabilitation



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ -	\$ 4,971,700	\$ -	\$ 4,971,700	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts:	\$ -	\$ 4,971,700	\$ -	\$ 4,971,700	

Project Status

This series of projects are ongoing and are budgeted on an annual basis.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
5442	SERVICE LINE, VALVE & MAIN REPLACEMENT-DW	\$ 1,685,000	\$ 1,685,000	\$ -	\$ -	
5447	MECH & ELEC SYS REPLACEMENT - DW 16/17	\$ 880,000	\$ 880,000	\$ -	\$ -	
5449	MECH & ELEC SYS REPLACEMENT - SEWER 16/17	\$ 550,000	\$ 550,000	\$ -	\$ -	
5451	MECH & ELEC SYS REPLACEMENT - RW 16/17	\$ 660,000	\$ 660,000	\$ -	\$ -	
5452	SERVICE LINE, VALVE & MAIN REPLACEMENT-RW	\$ 515,800	\$ 515,800	\$ -	\$ -	
5457	SEWER GEN SYS MODS 16/17	\$ 330,000	\$ 330,000	\$ -	\$ -	
5471	SEWER LATERAL & MAIN REPLACEMENT 16/17	\$ 218,900	\$ 218,900	\$ -	\$ -	
5478	LAWRP SYSTEM REPLACEMENTS 16/17	\$ 132,000	\$ 132,000	\$ -	\$ -	
TOTAL		\$ 4,971,700	\$ 4,971,700	\$ -	\$ -	

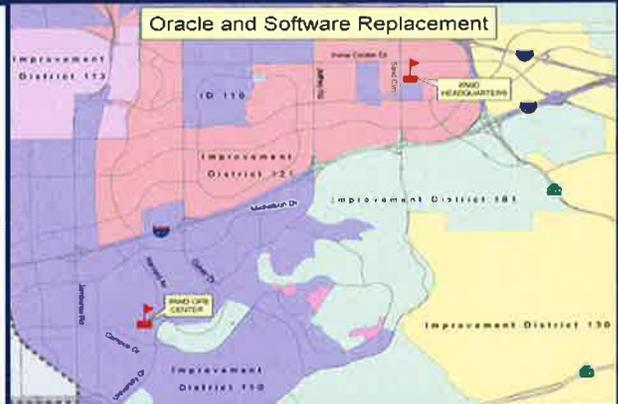
**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 9. Business Software

Project Description

The ID Consolidation Project Accounting implementation will focus on implementing changes to the Oracle Financial system to accommodate the recent consolidation of Improvement Districts (ID's), simplify the project accounting structure, and implement the Project Management software module.

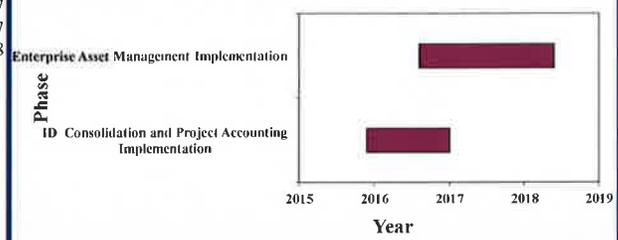
The Enterprise Asset Management software (EAMS) implementation will focus on upgrading the many systems currently used to track and maintain District assets. Activities during the next fiscal year will be focused on the pre-implementation phase and include asset management strategic planning, EAMS enterprise standards, asset data definition, asset criticality rating, data collection, business process development, staffing analysis, and performance metrics. Software selection and implementation services procurement and the start of implementation are also planned activities.



FY 2016/17 Key Milestones:

	Date
Begin ID Consolidation & Project Accounting Implementation	March, 2016
ID Consolidation Project Accounting Completion	January, 2017
Begin Enterprise Asset Management Implementation	January, 2017
Enterprise Asset Management Completion	June, 2018

Business Software



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ 904,741	\$ 4,185,600	\$ 3,959,459	\$ 9,049,800	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ 904,741	\$ 4,185,600	\$ 3,959,459	\$ 9,049,800	

Project Status

The Enterprise Asset Management software implementation is currently in the pre-implementation phase with an anticipated completion by early July 2016. Implementation is scheduled to start in January 2017 with an anticipated completion date of approximately December 2018.

The ID Consolidation and Project Accounting implementation started in March 2016 with an anticipated completion date of approximately January 2017.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT	\$ 2,432,100	\$ 832,900	\$ 1,139,221	\$ 459,979	
3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENT	\$ 2,432,100	\$ 832,900	\$ 1,274,593	\$ 324,607	
4394	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMP	\$ 2,092,800	\$ 1,568,600	\$ 524,200	\$ -	
4395	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMP	\$ 2,092,800	\$ 1,568,600	\$ 524,200	\$ -	
TOTAL		\$ 9,049,800	\$ 4,803,000	\$ 3,462,214	\$ 784,586	

**Irvine Ranch Water District
Capital Improvement Project, Fiscal Year 2016/17**

Project Group Name: 10. Asset Optimization

Project Description

The District aims to develop the following District-owned properties:

- 1- Sand Canyon Professional Center Phase II, located north of the District's Headquarters on Sand Canyon Avenue.
- 2- Serrano Summit project design, located north of the Baker Water Treatment Plant in Lake Forest.

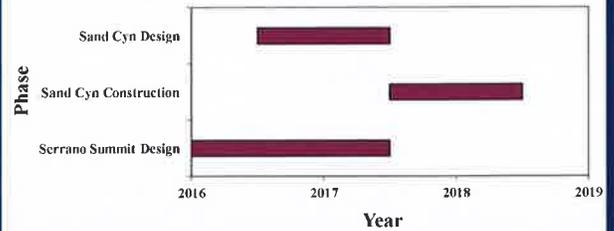


FY 2016/17 Key Milestones:

Date

Sand Canyon Professional Center Phase II - Design	June, 2017
Sand Canyon Professional Center Phase II - Construction	June, 2018
Serrano Summit - Design	June, 2017

Asset Optimization



Project Group Budget, Source of Funds, and Offset Summary

	Developing	Replacement	Developed	Total	Comments
Total Budget	\$ -	\$ 24,124,300	\$ -	\$ 24,124,300	
Existing Offsets	\$ -	\$ -	\$ -	\$ -	
Potential Future Offsets	\$ -	\$ -	\$ -	\$ -	
Net Amounts	\$ -	\$ 24,124,300	\$ -	\$ 24,124,300	

Project Status

Serrano Summit: Revised tentative tract maps will be submitted to the City of Lake Forest by summer 2016. Final tract maps will be prepared and submitted in FY 16/17.

Sand Canyon Professional Center Phase II: Architectural plans will be submitted to the City in March 2016. Final plans to be completed by fall 2016.

Project Group

Project No.	Project	Proj Total Dir	FY16-17 Dir	Forecasted Future Expenditure	Expended to Date	Comments
1264	ASSET OPTIMIZATION - LAKE FOREST DEVELOPMEN	\$ 6,500,000	\$ 990,500	\$ (92,259)	\$ 5,601,759	
6210	ASSET OPTIMIZATION - SAND CANYON PROFESSION	\$ 17,624,300	\$ 3,572,600	\$ 14,044,811	\$ 6,889	
TOTAL		\$ 24,124,300	\$ 4,563,100	\$ 13,952,552	\$ 5,608,648	

IRVINE RANCH WATER DISTRICT
Fiscal Year 2016/17
Water Improvement District (ID) Allocation

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	Improvement District (ID) Allocation - % of Project Budget								
					101	110	112	113	125	153	154	185	188
5410	COASTAL ZONE 2 PRV MODIFICATION (DPR16)	\$1,900	\$187,100	Local					100.0%				
1520	GREAT PARK COORDINATION AND SAMP	\$3,500	\$132,000	Local				100.0%					
1181	LAKE FOREST DW OFFSITE IMPROVEMENTS	\$68,700	\$424,600	Local								100.0%	
5404	LAKE FOREST Z2-2RA PRV AT COMMERCENTRE	\$16,500	\$337,700	Local								100.0%	
1354	PA1 16" Z5 PIPE, 5-4 PRVS NEIGHBORHOOD 3	\$11,000	\$1,237,500	Local							100.0%		
7012	PA1 NHB3 ORCHARD HILLS 16" DW Z5	\$100,700	\$162,800	Local							100.0%		
4680	PA18S HIDDEN CANYON 12" DW	\$7,300	\$315,700	Local							100.0%		
6304	PA51 BENCHMARK, BOSQUE TO 550'E/O	\$25,700	\$49,500	Local			100.0%						
4645	PA51 C ST FROM LQ ST TO O ST DW	\$3,600	\$161,700	Local			100.0%						
4620	PA51 LN ST FROM C ST TO LY ST DW	\$4,100	\$172,700	Local			100.0%						
4650	PA51 LY ST FROM LQ ST TO IRVINE BLVD DW	\$800	\$51,700	Local			100.0%						
6208	PA51 MARINE WAY: SR133 TO RIDGE VALLEY	\$63,600	\$82,500	Local			100.0%						
4268	PA51 RIDGE VALLEY, MARINE WAY TO	\$14,200	\$486,200	Local			100.0%						
4261	PA51 RIDGE VALLEY, TRABUCO TO IRVINE	\$17,000	\$723,800	Local			100.0%						
3977	PA51 TRABUCO RD, SR133 TO LY ST DW	\$2,300	\$156,200	Local			100.0%						
4512	PA5B PHASE 1A 12" ZONE 3 DW	\$4,700	\$132,000	Local							100.0%		
5243	PA6 NEIGHBORHOOD 4B 6" RW ZONE D	\$23,100	\$526,900	Local							100.0%		
7136	SANTIAGO HILLS II DOMESTIC WATER BPS	\$275,700	\$3,165,900	Local							100.0%		
7138	SANTIAGO HILLS II DOMESTIC WATER	\$746,700	\$10,263,800	Local							100.0%		
7133	SERRANO SUMMIT DW IMPROVEMENTS	\$97,300	\$402,600	Local								100.0%	

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	101	110	112	113	125	153	154	185	188
1038	TUSTIN LEGACY MASTER DW FACILITIES	\$159,200	\$1,495,200	Local				100.0%					
6765	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN)	\$89,900	\$116,600	Local				100.0%					
6109	TUSTIN LEGACY PARK AVE & MOFFETT DR 12"	\$232,900	\$579,700	Local				100.0%					
4366	TUSTIN LEGACY TUSTIN RANCH, BARRANCA,	\$7,100	\$343,200	Local				100.0%					
4510	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN	\$4,200	\$196,900	Local				100.0%					
4988	TUSTIN LEGACY WARNER FROM ARMSTRONG	\$1,600	\$60,500	Local				100.0%					
7233	BAKER SOLAR	\$45,400	\$45,400	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5027	BAKER WATER TREATMENT PLANT	\$10,421,500	\$96,852,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5428	CAPITAL PLANNING SUPPORT 16/17 DW	\$242,000	\$242,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6160	CENTRALIZED CONTROL ROOM AT MWRP	\$1,800	\$170,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
4409	CHLORAMINE BOOSTER STATIONS AT 2 DW	\$1,658,400	\$2,877,400	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5411	COMPRESSED NATURAL GAS MOTOR FUEL	\$23,000	\$68,800	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6165	DRWF SURGE TANKS	\$427,900	\$528,600	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5406	EL MODENA INLET MODIFICATION	\$1,000	\$156,200	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
3566	ENTERPRISE ASSET MGMT SOFTWARE	\$832,900	\$2,432,100	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5475	GEN SYS MODS-DW 16/17	\$190,300	\$190,300	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
7174	GENERAL PLANT REGIONAL 16/17 DW	\$432,500	\$432,500	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	\$60,000	\$60,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6213	IDF SODIUM HYPOCHLORITE STORAGE AND	\$1,596,700	\$2,913,900	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1459	IRWD PIPELINES RELOCATION FOR SC GRADE	\$10,700	\$1,958,400	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1100	LAKE FOREST WELL 1 DRILLING	\$38,700	\$1,417,600	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1117	LAKE FOREST WELL 1 WELLHEAD	\$31,200	\$1,035,100	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5338	MARSH MITIGATION CREDIT INVENTORY	\$36,300	\$36,300	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	101	110	112	113	125	153	154	185	188
7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT	\$24,600	\$299,300	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6212	NTS INFILTRATION STUDY	\$32,400	\$64,900	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1373	OCWD ANNEXATION FEE 16/17	\$580,600	\$580,600	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6214	PDF SODIUM HYPOCHLORITE STORAGE AND	\$165,300	\$2,976,900	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	\$110,000	\$110,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6956	PURCHASE PVID EATON PROPERTY	\$118,400	\$10,240,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	\$4,004,100	\$9,872,500	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6168	SAN JOAQUIN MARSH IMPROVEMENTS	\$1,562,300	\$1,776,700	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
7024	SANTA ANA DELHI DIVERSION PROJECT	\$155,200	\$210,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	\$460,100	\$10,506,300	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	\$1,585,500	\$1,590,800	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
3766	STOCKDALE WEST INTEGRATED WATER	\$5,424,400	\$12,340,600	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	\$75,700	\$522,500	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
7140	TUSTIN LEGACY REDHILL WELL DRILLING AND	\$17,200	\$4,559,800	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
7152	WATER AND ENERGY PLANNING STUDIES DW	\$126,500	\$126,500	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6245	WATER BANKING AGREEMENTS 16/18	\$220,100	\$440,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6247	WATER BANKING PLANNING 16/17	\$137,500	\$137,500	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6013	WATER SUPPLY AND SYSTEM RELIABILITY	\$93,400	\$664,800	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
1402	WELLS 51/52/53 TREATMENT ALTERNATIVES	\$5,300	\$133,100	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5431	WRMP UPDATE DW	\$44,000	\$132,000	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
6401	ZONE 1 RESERVOIR NO. 2	\$817,600	\$12,626,300	Regional		32.6%	3.3%	3.0%	47.5%	11.1%	0.4%	1.6%	0.5%
5479	1" TO 2" METER REPLACEMENT-DW 16/17	\$170,200	\$170,200	Replacement	100.0%								
1264	ASSET OPTIMIZATION - LAKE FOREST	\$990,500	\$6,500,000	Replacement	100.0%								

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	101	110	112	113	125	153	154	185	188
6210	ASSET OPTIMIZATION - SAND CANYON	\$3,572,600	\$17,624,300	Replacement	100.0%								
5472	CSR METER REPLACEMENT-DW 16/17	\$213,200	\$213,200	Replacement	100.0%								
4401	DRWF WELL 18 REHAB	\$768,900	\$770,000	Replacement	100.0%								
7093	DRWF WELL 7 REHAB	\$1,100	\$770,000	Replacement	100.0%								
5519	EAST IRVINE ZONE 1 TO 3 BPS PIPE/METER	\$64,900	\$600,100	Replacement	100.0%								
4394	EBS UPGRADE ID CONSOL AND PROJECT MGMT	\$1,568,600	\$2,092,800	Replacement	100.0%								
7177	GENERAL PLANT REPLACEMENT 16/17 DW	\$2,087,600	\$2,087,600	Replacement	100.0%								
7179	GENERAL PLANT REPLACEMENT 16/17 RW	\$1,548,200	\$1,548,200	Replacement	100.0%								
1336	HQ OFFICE IMPROVEMENTS	\$46,500	\$277,300	Replacement	100.0%								
5447	MECH & ELEC SYS REPLACEMENT - DW 16/17	\$880,000	\$880,000	Replacement	100.0%								
7117	OPS CENTER ROOF REPLACEMENT	\$166,000	\$166,000	Replacement	100.0%								
5298	RAISE DW SYSTEM VALVES 16/17 UNDER RA	\$577,500	\$577,500	Replacement	100.0%								
7084	REPLACEMENT PLANNING DW	\$49,900	\$440,000	Replacement	100.0%								
5454	RESIDENTIAL METER REPLACEMENT-DW 16/17	\$267,300	\$267,300	Replacement	100.0%								
1414	SAND CANYON 16" DW PIPELINE ANODE	\$1,600	\$243,100	Replacement	100.0%								
5442	SERVICE LINE, VALVE & MAIN REPLACEMENT-	\$1,685,000	\$1,685,000	Replacement	100.0%								
6121	VAULT LID REPLACEMENT - DW	\$3,300	\$397,700	Replacement	100.0%								
5504	WELL MAINTENANCE AND REHABILITATION	\$220,000	\$220,000	Replacement	100.0%								
5473	WELLS 11 AND 15 SURGE TANK REPLACEMENT	\$724,400	\$1,213,300	Replacement	100.0%								
5453	WELLS 12 AND 13 ROOF HATCHES	\$223,900	\$357,000	Replacement	100.0%								
6849	IBC SIDEWALK IMP & APPURTENANCE	\$284,900	\$442,900	Sub-Regional	60.0%					40.0%			
5756	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12"	\$29,800	\$243,100	Sub-Regional			98.2%			1.8%			
5816	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 12"	\$52,100	\$177,100	Sub-Regional			20.9%			79.1%			

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	101	110	112	113	125	153	154	185	188
6683	PA51 GP BENCHMARK AND MODJEKSA	\$88,800	\$150,700	Sub-Regional			98.2%			1.8%			
6552	PA51 GP BENCHMARK AND PERSPECTIVE 12"	\$76,500	\$147,400	Sub-Regional			98.2%			1.8%			
6534	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12"	\$22,300	\$44,000	Sub-Regional			98.2%			1.8%			
6512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" DW	\$224,200	\$355,300	Sub-Regional			20.9%			79.1%			
6536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" DW	\$323,200	\$531,300	Sub-Regional			20.9%			79.1%			
6016	PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW	\$102,400	\$156,200	Sub-Regional			98.2%			1.8%			
4153	PA51 MARINE WAY DW ZN3	\$21,500	\$420,200	Sub-Regional			20.9%			79.1%			
6086	PA51 MARINE WAY FROM ALTON TO	\$11,200	\$238,700	Sub-Regional			20.9%			79.1%			
7170	UNIVERSITY DR WIDENING APPURTENANCE	\$131,400	\$148,000	Sub-Regional	75.0%	25.0%							
	Total	\$50,993,300	\$245,448,200		\$16.1	\$10.4	\$1.6	\$1.5	\$15.1	\$5.3	\$0.1	\$0.7	\$0.2

IRVINE RANCH WATER DISTRICT
Fiscal Year 2016/17
Sewer Improvement District (ID) Allocation

Improvement District (ID) Allocation - % of Project Budget

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
1167	GREAT PARK COORDINATION AND SAMP UPDATE	\$3,500	\$132,000	Local			100.0							
7094	LAKE FOREST ZN A RESERVOIR DEMOLITION	\$160,600	\$160,600	Local									100.0	
6400	NEWPORT COAST SLS IMPROVEMENTS	\$1,523,400	\$2,059,200	Local						100.0				
6915	PA 6 NBHD 5A 6" AND 8" RECYCLED WATER MAIN	\$235,100	\$402,600	Local							100.0			
7017	PA1 NHB3 ORCHARD HILLS 6"8" RW ZC+	\$150,100	\$203,500	Local							100.0			
7013	PA1 NHB3 ORCHARD HILLS 6"8"10"12" RW ZC	\$271,900	\$367,400	Local							100.0			
4990	PA1 ORCHARD HILLS NEIGHBORHOOD 2, 6" ZNC RW	\$2,900	\$84,700	Local							100.0			
1716	PA1 ORCHARD HILLS NEIGHBORHOOD 3	\$34,100	\$326,700	Local							100.0			
1722	PA1 ORCHARD HILLS NEIGHBORHOOD 4	\$74,200	\$566,500	Local							100.0			
4717	PA1 ORCHARD HILLS NH 2 - 6" ZNB & 6" ZNC RW	\$5,600	\$238,700	Local							100.0			
5919	PA1 ORCHARD HILLS, NEIGHBORHOOD 1, 16" ZC 6" ZC+	\$259,300	\$521,400	Local							100.0			
4681	PA18S HIDDEN CANYON 6" & 8" RW	\$7,300	\$315,700	Local							100.0			
3735	PA39 PH2 RW FACILITIES	\$88,600	\$226,600	Local							100.0			
1056	PA39 PHASE 1 RW PIPELINES	\$200	\$180,400	Local							100.0			
6056	PA40 8TH ST RIDGE VALLEY TO C ST CAPITAL 6" RW	\$18,700	\$283,800	Local							100.0			
4528	PA40 NEIGHBORHOOD 2G BACKBONE RW FACILITIES	\$200	\$108,900	Local							100.0			
4318	PA40 PH3B RW CAPITAL FACILITIES	\$200	\$165,000	Local							100.0			
5788	PA51 ALTON PKWY SS RELOCATION 12" AND 18"	\$222,300	\$1,832,300	Local			100.0							
5817	PA51 ALTON, TECHNOLOGY TO MUIRLANDS SS	\$412,000	\$1,326,300	Local			100.0							
6306	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 6"	\$25,700	\$49,500	Local			100.0							
4646	PA51 C ST FROM LQ ST TO O ST RW	\$6,800	\$266,200	Local			100.0							
5016	PA51 C ST FROM LV ST TO TRABUCO SEWER	\$9,000	\$370,700	Local			100.0							

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
4653	PA51 C ST FROM TRABUCO RD TO LQ ST SEWER	\$9,100	\$403,700	Local			100.0							
6553	PA51 GP BENCHMARK AND PERSPECTIVE 16" SS	\$126,700	\$244,200	Local			100.0							
6331	PA51 GP CULTIVATE (BOSQUE TO 500 E/O BOSQUE)	\$7,900	\$220,000	Local			100.0							
6513	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" SS	\$595,300	\$938,300	Local			100.0							
6537	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" SS	\$199,500	\$333,300	Local			100.0							
4621	PA51 LN ST FROM C ST TO LY ST RW	\$2,300	\$105,600	Local			100.0							
5535	PA51 LQ ST FROM BOSQUE TO Z ST 12" SEWER	\$653,400	\$1,510,300	Local			100.0							
4649	PA51 LQ ST FROM O ST TO LY ST RW	\$1,900	\$78,100	Local			100.0							
4648	PA51 LQ ST FROM O ST TO LY ST SEWER	\$5,800	\$255,200	Local			100.0							
4825	PA51 LV ST FROM RIDGE VALLEY TO LY ST 12" RW	\$8,100	\$321,200	Local			100.0							
4824	PA51 LV ST FROM RIDGE VALLEY TO LY ST 18" SEWER	\$7,700	\$310,200	Local			100.0							
4652	PA51 LY ST FROM LQ ST TO IRVINE BLVD RW	\$27,800	\$938,300	Local			100.0							
4651	PA51 LY ST FROM LQ ST TO IRVINE BLVD SEWER	\$55,900	\$1,662,200	Local			100.0							
4647	PA51 LY ST FROM TRABUCO RD TO LQ ST RW	\$5,600	\$205,700	Local			100.0							
6048	PA51 MARINE WAY, ALTON TO BARRANCA 18" SS	\$59,200	\$1,424,500	Local			100.0							
6476	PA51 MARINE WAY. RIDGE VALLEY TO 3000' EAST	\$181,100	\$426,800	Local							100.0			
6209	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6" ZONE	\$40,300	\$53,900	Local			100.0							
4278	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - RW	\$14,600	\$464,200	Local			100.0							
4267	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO -	\$41,500	\$1,493,800	Local			100.0							
4264	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - RW	\$4,300	\$194,700	Local			100.0							
4263	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - SS	\$10,100	\$436,700	Local			100.0							
3983	PA51 TRABUCO RD, SR133 TO LY ST RW	\$8,500	\$480,700	Local			100.0							
3980	PA51 TRABUCO RD, SR133 TO LY ST SEWER	\$2,500	\$161,700	Local			100.0							
4515	PA5B IRVINE BLVD 8" ZONE B RW	\$5,200	\$100,100	Local							100.0			
4513	PA5B PHASE 1A AND 1B 6" & 8" RW	\$14,300	\$298,200	Local							100.0			
4753	PA5B PHASE 2 6" RW	\$2,600	\$57,200	Local							100.0			

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
5763	PA6 NEIGHBORHOOD 5A RW ZONE D	\$6,600	\$132,000	Local							100.0			
4557	PA6 PHASE 1 NEIGHBORHOOD 3 ZONE C RW	\$11,900	\$315,700	Local							100.0			
1308	PA6 RW PIPELINES	\$486,100	\$620,500	Local							100.0			
1762	PA9B PHASE 5 GATEWAY PARK RW PIPES	\$7,600	\$506,100	Local							100.0			
6470	RANCHO PARKWAY ZONE C RECYCLED WATER PIPELINE	\$144,600	\$997,800	Local									100.0	
7139	SANTIAGO HILLS II RECYCLED WATER BPS	\$275,700	\$3,165,900	Local							100.0			
7134	SERRANO SUMMIT RW IMPROVEMENTS	\$68,900	\$402,600	Local									100.0	
7135	SERRANO SUMMIT SEWER IMPROVEMENTS	\$62,600	\$325,600	Local									100.0	
1101	TUSTIN LEGACY MASTER RW FACILITIES	\$157,000	\$1,544,900	Local				100.0						
1062	TUSTIN LEGACY MASTER SEWER FACILITIES	\$120,000	\$1,115,400	Local				100.0						
6766	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 16" RW	\$176,200	\$226,600	Local				100.0						
6110	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 15" SS	\$330,800	\$387,200	Local				100.0						
6111	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 6" RW	\$227,800	\$568,700	Local				100.0						
6010	TUSTIN LEGACY PARK AVE FROM JAMBOREE TO	\$18,400	\$64,900	Local				100.0						
4368	TUSTIN LEGACY TUSTIN RANCH, BARRANCA,	\$15,400	\$689,700	Local				100.0						
4511	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN RANCH	\$4,500	\$207,900	Local				100.0						
4989	TUSTIN LEGACY WARNER FROM ARMSTRONG TO	\$7,700	\$282,700	Local				100.0						
6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	\$350,000	\$596,200	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
5429	CAPITAL PLANNING SUPPORT 16/17 RW	\$242,000	\$242,000	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	\$242,000	\$242,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
6161	CENTRALIZED CONTROL ROOM AT MWRP	\$1,800	\$170,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
3567	ENTERPRISE ASSET MGMT SOFTWARE	\$832,900	\$2,432,100	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
5480	GEN SYS MODS-RW 16/17	\$101,800	\$101,800	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
7176	GENERAL PLANT REGIONAL 16/17 RW	\$285,300	\$285,300	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
7175	GENERAL PLANT REGIONAL 16/17 SEWER	\$292,200	\$292,200	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	\$60,000	\$60,000	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	\$60,000	\$60,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
1152	IRWD PIPELINES RELOCATION FOR SC GRADE	\$5,600	\$1,078,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
4397	LAWRP SYSTEM UPGRADES	\$5,800	\$1,418,700	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
7096	METER AND VAULT FOR OSO RESERVOIR	\$2,500	\$375,100	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	\$45,574,200	\$196,465,500	Regional	45.5	18.9	1.5	1.5	27.7		4.1	0.1	0.6	0.1
7158	NON-POTABLE WATER STUDIES 16/17	\$60,000	\$60,000	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
7156	NTS INSTRUMENTATION	\$165,300	\$330,000	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
1516	OCSD EQUITY 15/16	\$2,293,000	\$6,854,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
1530	OCSD EQUITY 16/17	\$7,907,100	\$11,893,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
7070	OCSD SJHPC/ GRS	\$798,700	\$1,000,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
1429	OCSD SOLIDS HANDLING 16/17	\$1,391,000	\$1,391,000	Regional	45.5	18.9	1.5	1.5	27.7		4.1	0.1	0.6	0.1
7137	OPA ZONE C+ PIPELINES	\$933,500	\$1,550,900	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
6167	OPS CENTER PERMANENT GENERATOR	\$535,000	\$618,800	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
5168	PA18S HIDDEN CANYON 36" RW PIPELINE	\$58,700	\$2,208,200	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
4514	PA5B PHASE 1A AND 1B 36" RW	\$80,000	\$1,769,400	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
4985	PETERS CANYON WATER CAPTURE AND REUSE	\$424,500	\$10,959,800	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	\$110,000	\$110,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	\$819,500	\$819,500	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
3779	SALT MANAGEMENT PLAN DEVELOPMENT	\$13,500	\$472,300	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	\$229,300	\$568,700	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	\$129,200	\$1,155,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
5186	SJM SLS UPGRADE	\$1,200	\$181,000	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
5154	SJR SEISMIC EVALUATION (DSOD)	\$700	\$150,700	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
3808	SYPHON RESERVOIR EXPANSION	\$82,000	\$60,169,200	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN	\$613,700	\$921,300	Regional		33.1	3.4	3.4	48.5		9.7	0.3	1.3	0.3
7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN	\$302,600	\$454,300	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
5432	WRMP UPDATE RW	\$44,000	\$132,000	Regional		14.6	10.7	4.1	51.0	7.7	10.4		1.5	
5483	1" TO 2" METER REPLACEMENT-RW 16/17	\$117,000	\$117,000	Replacement	100.0									
7086	CALIFORNIA AVE RW PIPELINE, ACADEMY TO THEORY	\$13,000	\$732,000	Replacement	100.0									
5481	CSR METER REPLACEMENT-RW 16/17	\$112,200	\$112,200	Replacement	100.0									
4395	EBS UPGRADE ID CONSOL AND PROJECT MGMT	\$1,568,600	\$2,092,800	Replacement	100.0									
7009	FPS2 PIPELINE MANIFOLD REPLACEMENT	\$166,100	\$844,800	Replacement	100.0									
7180	GENERAL PLANT - CONSERVATION	\$80,000	\$80,000	Replacement	100.0									
7178	GENERAL PLANT REPLACEMENT 16/17 SEWER	\$853,900	\$853,900	Replacement	100.0									
1549	HQ OFFICE IMPROVEMENTS	\$41,200	\$245,900	Replacement	100.0									
1257	HQ OFFICE IMPROVEMENTS	\$13,700	\$81,400	Replacement	100.0									
5156	LAGUNA CANYON RD RW PIPELINE CORROSION	\$2,000	\$588,500	Replacement	100.0									
5478	LAWRP SYSTEM REPLACEMENTS 16/17	\$132,000	\$132,000	Replacement	100.0									
5174	MAIN ST DIVERSION STRUCTURE GROUND SETTLING	\$95,700	\$191,400	Replacement	100.0									
5520	MAINTENANCE ACCESS FOR FOUR SEWER REACHES	\$1,400	\$368,000	Replacement	100.0									
5451	MECH & ELEC SYS REPLACEMENT - RW 16/17	\$660,000	\$660,000	Replacement	100.0									
5449	MECH & ELEC SYS REPLACEMENT - SEWER 16/17	\$550,000	\$550,000	Replacement	100.0									
7097	MICHELSON DI SFM RELINING	\$4,000	\$1,367,300	Replacement	100.0									
5469	MWRP FPS 2 ROOF REPLACEMENT	\$343,800	\$497,900	Replacement	100.0									
4467	MWRP REPAIRS: ACT SLUDGE, 2DARY TANKS, RAS/WAS	\$181,700	\$3,181,600	Replacement	100.0									
5455	MWRP SYS REPLACEMENTS 16/17	\$442,200	\$442,200	Replacement	100.0									
5470	NEWPORT COAST SLS AND FM RECOATING (REHAB)	\$1,033,300	\$1,432,200	Replacement	100.0									
7118	OPS CENTER ROOF REPLACEMENT	\$166,000	\$166,000	Replacement	100.0									
7119	OPS CENTER ROOF REPLACEMENT	\$166,000	\$166,000	Replacement	100.0									
5302	RAISE MANHOLES TO GRADE 16/17 UNDER RA	\$346,500	\$346,500	Replacement	100.0									
5305	RAISE RW SYSTEM VALVES 16/17 UNDER RA	\$138,600	\$138,600	Replacement	100.0									
5476	RATTLESNAKE ZONE A BPS REBUILD	\$5,300	\$3,937,700	Replacement	100.0									

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
7098	REBUILD SMH ON MAIN ST E/O MACARTHUR	\$500	\$178,200	Replacement	100.0									
7085	REPLACEMENT PLANNING RW	\$49,900	\$440,000	Replacement	100.0									
3780	SAN JOAQUIN RESERVOIR LINER REPLACEMENT	\$8,900	\$2,807,900	Replacement	100.0									
7099	SEA WATCH RW MAIN REPLACEMENT (S/O PACIFIC	\$2,100	\$720,500	Replacement	100.0									
5452	SERVICE LINE, VALVE & MAIN REPLACEMENT-RW	\$515,800	\$515,800	Replacement	100.0									
5457	SEWER GEN SYS MODS 16/17	\$330,000	\$330,000	Replacement	100.0									
5471	SEWER LATERAL & MAIN REPLACEMENT 16/17	\$218,900	\$218,900	Replacement	100.0									
7100	SEWER LINE REPAIRS	\$500	\$156,200	Replacement	100.0									
3750	SOCWA ETM PROTECTION - TRAIL BRIDGE CROSSING	\$5,500	\$951,500	Replacement	100.0									
7103	UCI CT RW CONVERSION ONSITE PIPELINES	\$79,800	\$1,050,000	Replacement	100.0									
7112	VACTOR ACCESS TO SMH ON SO IRVINE INTERCEPTOR	\$1,400	\$347,600	Replacement	100.0									
6123	VAULT LID REPLACEMENT - RW	\$1,600	\$195,300	Replacement	100.0									
6122	VAULT LID REPLACEMENT - SEWER	\$3,300	\$96,300	Replacement	100.0									
6850	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	\$31,500	\$49,700	Sub-Regional	60.0							40.0		
6198	IIC ZONE B BPS UPGRADES	\$244,800	\$734,600	Sub-Regional			54.2		23.1			22.7		
5823	ILP NORTH CONVERSION - PIPELINES	\$6,618,000	\$10,991,100	Sub-Regional	2.1		2.5	1.0	46.3	1.8	46.0		0.3	
5407	ILP NORTH CONVERSION - RESERVOIR	\$7,044,100	\$14,382,500	Sub-Regional	0.3		40.1	0.1	16.8	0.3	42.3		0.1	
4457	MULTI-ZONE BPS - ZONE A-B	\$483,200	\$3,005,200	Sub-Regional	13.7		48.2					38.1		
4400	MULTI-ZONE BPS - ZONE A-C	\$477,100	\$2,795,200	Sub-Regional			56.0					44.0		
6216	NORTHWOOD ZONE B BPS DEMOLITION	\$5,500	\$539,000	Sub-Regional			54.2		23.1			22.7		
1554	OCSD CORF 15/16	\$1,202,900	\$5,988,000	Sub-Regional	72.7	9.0	0.9	0.9	13.2		2.6	0.1	0.4	0.1
1561	OCSD CORF 16/17	\$4,611,700	\$5,774,000	Sub-Regional	72.7	9.0	0.9	0.9	13.2		2.6	0.1	0.4	0.1
3734	PA40 TRAVELAND RW FACILITIES	\$4,800	\$447,700	Sub-Regional			21.0					79.0		
5757	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN C	\$29,500	\$240,900	Sub-Regional			87.4					12.6		
5818	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 16" RW	\$105,500	\$344,300	Sub-Regional			87.4					12.6		
5758	PA51 CADENCE - PUSAN TO CHINON 12" & 16"	\$72,400	\$271,700	Sub-Regional			87.4					12.6		

Project No.	Project Title	Fiscal Year Direct	Total Direct	Split Description	201	210	212	213	225	240	253	256	285	288
6684	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4)	\$565,000	\$971,300	Sub-Regional			99.6				0.4			
6554	PA51 GP BENCHMARK AND PERSPECTIVE 6" RW ZC	\$67,500	\$129,800	Sub-Regional			99.6				0.4			
6823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16" RW	\$209,700	\$323,400	Sub-Regional			99.6				0.4			
6514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10" RW	\$335,500	\$536,800	Sub-Regional			87.4				12.6			
6747	PA51 GP IRVINE BLVD (AT MERIT) 6" RW ZC	\$18,100	\$34,100	Sub-Regional			99.6				0.4			
6732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6"	\$95,200	\$206,800	Sub-Regional			87.4				12.6			
6535	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" RW ZC	\$55,300	\$106,700	Sub-Regional			99.6				0.4			
6595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6" RW ZB	\$82,100	\$180,400	Sub-Regional			99.6				0.4			
6538	PA51 GP-2 ST (BOSQUE TO GP1 ST) 10" RW	\$661,900	\$1,049,400	Sub-Regional			87.4				12.6			
7022	PA51 GREAT PARK GP-2 (FROM GP-3 TO BOSQUE)	\$132,800	\$180,400	Sub-Regional			99.6				0.4			
6017	PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS	\$74,700	\$115,500	Sub-Regional			22.9				77.1			
6018	PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW	\$966,500	\$1,412,400	Sub-Regional			99.6				0.4			
5536	PA51 LQ ST FROM BOSQUE TO Z ST 12" RW	\$117,600	\$416,900	Sub-Regional			87.4				12.6			
4147	PA51 MARINE WAY RW ZNB	\$27,600	\$541,200	Sub-Regional			87.4				12.6			
6087	PA51 MARINE WAY, ALTON TO BARRANCA 16" RW ZN	\$13,400	\$281,600	Sub-Regional			87.4				12.6			
4614	PA51 REACH A SEWER IMPROVEMENTS	\$639,900	\$3,956,500	Sub-Regional			67.0				33.0			
1015	TECHNOLOGY DR AND LAGUNA CANYON RD RW ZONE	\$1,404,700	\$3,223,500	Sub-Regional				21.0			79.0			
7101	UCI CT RW CONV ACADEMY WAY	\$951,500	\$951,500	Sub-Regional	60.0	40.0								
7102	UCI CT RW CONV CALIFORNIA, UNIV TO ACADEMY	\$346,500	\$346,500	Sub-Regional	60.0	40.0								
7171	UNIVERSITY DR WIDENING APPURTENANCE	\$131,400	\$148,000	Sub-Regional	75.0	25.0								
7172	UNIVERSITY DR WIDENING APPURTENANCE	\$131,400	\$148,000	Sub-Regional	75.0	25.0								
	Total	\$109,185,000	\$430,608,400		\$35.3	\$15.3	\$11.9	\$2.5	\$26.9	\$1.9	\$14.1	\$0.1	\$1.0	\$0.1

IRVINE RANCH WATER DISTRICT
Fiscal Year 2016/2017
Allocation of FY Project Expenditures by Improvement District

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
101 - Rep					
	5479	1" TO 2" METER REPLACEMENT-DW 16/17	100.0%	\$170,200	\$195,000
	1264	ASSET OPTIMIZATION - LAKE FOREST DEVELOPMENT	100.0%	\$990,500	\$990,500
	6210	ASSET OPTIMIZATION - SAND CANYON PROFESSIONAL CTR	100.0%	\$3,572,600	\$3,602,400
	5472	CSR METER REPLACEMENT-DW 16/17	100.0%	\$213,200	\$222,500
	4401	DRWF WELL 18 REHAB	100.0%	\$768,900	\$841,100
	7093	DRWF WELL 7 REHAB	100.0%	\$1,100	\$2,900
	5519	EAST IRVINE ZONE 1 TO 3 BPS PIPE/METER	100.0%	\$64,900	\$70,500
	4394	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMPLEMENT	100.0%	\$1,568,600	\$2,025,500
	7177	GENERAL PLANT REPLACEMENT 16/17 DW	100.0%	\$2,087,600	\$2,087,600
	7179	GENERAL PLANT REPLACEMENT 16/17 RW	100.0%	\$1,548,200	\$1,548,200
	1336	HQ OFFICE IMPROVEMENTS	100.0%	\$46,500	\$64,300
	6849	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	60.0%	\$170,940	\$186,060
	5447	MECH & ELEC SYS REPLACEMENT - DW 16/17	100.0%	\$880,000	\$880,000
	7117	OPS CENTER ROOF REPLACEMENT	100.0%	\$166,000	\$272,500
	5298	RAISE DW SYSTEM VALVES 16/17 UNDER RA	100.0%	\$577,500	\$623,800
	7084	REPLACEMENT PLANNING DW	100.0%	\$49,900	\$133,800
	5454	RESIDENTIAL METER REPLACEMENT-DW 16/17	100.0%	\$267,300	\$291,400
	1414	SAND CANYON 16" DW PIPELINE ANODE REPLACEMENT	100.0%	\$1,600	\$4,200
	5442	SERVICE LINE, VALVE & MAIN REPLACEMENT-DW 16/17	100.0%	\$1,685,000	\$1,703,500
	7170	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	75.0%	\$98,550	\$116,550
	6121	VAULT LID REPLACEMENT - DW	100.0%	\$3,300	\$8,500

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
101 - Rep					
	5504	WELL MAINTENANCE AND REHABILITATION 16/17	100.0%	\$220,000	\$220,000
	5473	WELLS 11 AND 15 SURGE TANK REPLACEMENT	100.0%	\$724,400	\$731,000
	5453	WELLS 12 AND 13 ROOF HATCHES REPLACEMENT	100.0%	\$223,900	\$243,200
				\$16,100,690	\$17,065,010
110					
	7233	BAKER SOLAR	32.6%	\$14,800	\$17,832
	5027	BAKER WATER TREATMENT PLANT	32.6%	\$3,397,409	\$3,576,546
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	32.6%	\$78,892	\$139,202
	6160	CENTRALIZED CONTROL ROOM AT MWRP	32.6%	\$587	\$1,434
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	32.6%	\$540,638	\$577,216
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	32.6%	\$7,498	\$7,889
	6165	DRWF SURGE TANKS	32.6%	\$139,495	\$147,026
	5406	EL MODENA INLET MODIFICATION	32.6%	\$326	\$750
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	32.6%	\$271,525	\$339,757
	5475	GEN SYS MODS-DW 16/17	32.6%	\$62,038	\$75,339
	7174	GENERAL PLANT REGIONAL 16/17 DW	32.6%	\$140,995	\$140,995
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	32.6%	\$19,560	\$30,709
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	32.6%	\$520,524	\$553,581
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	32.6%	\$3,488	\$3,488
	1100	LAKE FOREST WELL 1 DRILLING	32.6%	\$12,616	\$15,615
	1117	LAKE FOREST WELL 1 WELLHEAD	32.6%	\$10,171	\$13,170
	5338	MARSH MITIGATION CREDIT INVENTORY	32.6%	\$11,834	\$14,866
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	32.6%	\$8,020	\$10,041
	6212	NTS INFILTRATION STUDY	32.6%	\$10,562	\$12,649
	1373	OCWD ANNEXATION FEE 16/17	32.6%	\$189,276	\$189,276

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
110					
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	32.6%	\$53,888	\$70,351
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	32.6%	\$35,860	\$44,923
	6956	PURCHASE PVID EATON PROPERTY	32.6%	\$38,598	\$38,598
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	32.6%	\$1,305,337	\$1,375,068
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	32.6%	\$509,310	\$544,453
	7024	SANTA ANA DELHI DIVERSION PROJECT	32.6%	\$50,595	\$55,061
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	32.6%	\$149,993	\$230,384
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	32.6%	\$516,873	\$519,872
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	32.6%	\$1,768,354	\$1,798,477
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	32.6%	\$24,678	\$24,678
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	32.6%	\$5,607	\$7,107
	7170	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	25.0%	\$32,850	\$38,850
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	32.6%	\$41,239	\$56,333
	6245	WATER BANKING AGREEMENTS 16/18	32.6%	\$71,753	\$101,908
	6247	WATER BANKING PLANNING 16/17	32.6%	\$44,825	\$74,980
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	32.6%	\$30,448	\$34,947
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	32.6%	\$1,728	\$2,184
	5431	WRMP UPDATE DW	32.6%	\$14,344	\$26,406
	6401	ZONE 1 RESERVOIR NO. 2	32.6%	\$266,538	\$324,468
				\$10,403,073	\$11,236,428
112 ET					
	7233	BAKER SOLAR	3.3%	\$1,498	\$1,805
	5027	BAKER WATER TREATMENT PLANT	3.3%	\$343,910	\$362,043
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	3.3%	\$7,986	\$14,091
	6160	CENTRALIZED CONTROL ROOM AT MWRP	3.3%	\$59	\$145

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
112 ET					
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	3.3%	\$54,727	\$58,430
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	3.3%	\$759	\$799
	6165	DRWF SURGE TANKS	3.3%	\$14,121	\$14,883
	5406	EL MODENA INLET MODIFICATION	3.3%	\$33	\$76
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	3.3%	\$27,486	\$34,393
	5475	GEN SYS MODS-DW 16/17	3.3%	\$6,280	\$7,626
	7174	GENERAL PLANT REGIONAL 16/17 DW	3.3%	\$14,273	\$14,273
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	3.3%	\$1,980	\$3,109
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	3.3%	\$52,691	\$56,037
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	3.3%	\$353	\$353
	1100	LAKE FOREST WELL 1 DRILLING	3.3%	\$1,277	\$1,581
	1117	LAKE FOREST WELL 1 WELLHEAD	3.3%	\$1,030	\$1,333
	5338	MARSH MITIGATION CREDIT INVENTORY	3.3%	\$1,198	\$1,505
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	3.3%	\$812	\$1,016
	6212	NTS INFILTRATION STUDY	3.3%	\$1,069	\$1,280
	1373	OCWD ANNEXATION FEE 16/17	3.3%	\$19,160	\$19,160
	5756	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12" ZN 4	98.2%	\$29,264	\$35,548
	5816	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 12" DW	20.9%	\$10,889	\$12,707
	6304	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 12" Z4R	100.0%	\$25,700	\$31,500
	4645	PA51 C ST FROM LQ ST TO O ST DW	100.0%	\$3,600	\$3,600
	6683	PA51 GP BENCHMARK AND MODJEKSA (DISTRICT 4) 12" DW	98.2%	\$87,202	\$103,601
	6552	PA51 GP BENCHMARK AND PERSPECTIVE 12" DW Z4R	98.2%	\$75,123	\$90,835
	6534	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" DW Z4	98.2%	\$21,899	\$27,594
	6512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" DW	20.9%	\$46,858	\$55,552
	6536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" DW	20.9%	\$67,549	\$82,033

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
112 ET					
	6016	PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW	98.2%	\$100,557	\$121,081
	4620	PA51 LN ST FROM C ST TO LY ST DW	100.0%	\$4,100	\$4,100
	4650	PA51 LY ST FROM LQ ST TO IRVINE BLVD DW	100.0%	\$800	\$800
	4153	PA51 MARINE WAY DW ZN3	20.9%	\$4,494	\$5,037
	6086	PA51 MARINE WAY FROM ALTON TO BARRANCA 12" DW ZN 3	20.9%	\$2,341	\$2,341
	6208	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 12" ZONE 3	100.0%	\$63,600	\$77,400
	4268	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - DW	100.0%	\$14,200	\$14,200
	4261	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - DW	100.0%	\$17,000	\$17,000
	3977	PA51 TRABUCO RD, SR133 TO LY ST DW	100.0%	\$2,300	\$2,300
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	3.3%	\$5,455	\$7,121
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	3.3%	\$3,630	\$4,547
	6956	PURCHASE PVID EATON PROPERTY	3.3%	\$3,907	\$3,907
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	3.3%	\$132,135	\$139,194
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	3.3%	\$51,556	\$55,113
	7024	SANTA ANA DELHI DIVERSION PROJECT	3.3%	\$5,122	\$5,574
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	3.3%	\$15,183	\$23,321
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	3.3%	\$52,322	\$52,625
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	3.3%	\$179,005	\$182,054
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	3.3%	\$2,498	\$2,498
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	3.3%	\$568	\$719
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	3.3%	\$4,175	\$5,702
	6245	WATER BANKING AGREEMENTS 16/18	3.3%	\$7,263	\$10,316
	6247	WATER BANKING PLANNING 16/17	3.3%	\$4,538	\$7,590
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	3.3%	\$3,082	\$3,538
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	3.3%	\$175	\$221

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
112 ET					
	5431	WRMP UPDATE DW	3.3%	\$1,452	\$2,673
	6401	ZONE 1 RESERVOIR NO. 2	3.3%	\$26,981	\$32,845
				\$1,627,220	\$1,820,726
113 TU					
	7233	BAKER SOLAR	3.0%	\$1,362	\$1,641
	5027	BAKER WATER TREATMENT PLANT	3.0%	\$312,645	\$329,130
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	3.0%	\$7,260	\$12,810
	6160	CENTRALIZED CONTROL ROOM AT MWRP	3.0%	\$54	\$132
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	3.0%	\$49,752	\$53,118
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	3.0%	\$690	\$726
	6165	DRWF SURGE TANKS	3.0%	\$12,837	\$13,530
	5406	EL MODENA INLET MODIFICATION	3.0%	\$30	\$69
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	3.0%	\$24,987	\$31,266
	5475	GEN SYS MODS-DW 16/17	3.0%	\$5,709	\$6,933
	7174	GENERAL PLANT REGIONAL 16/17 DW	3.0%	\$12,975	\$12,975
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	3.0%	\$1,800	\$2,826
	1520	GREAT PARK COORDINATION AND SAMP UPDATE	100.0%	\$3,500	\$5,000
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	3.0%	\$47,901	\$50,943
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	3.0%	\$321	\$321
	1100	LAKE FOREST WELL 1 DRILLING	3.0%	\$1,161	\$1,437
	1117	LAKE FOREST WELL 1 WELLHEAD	3.0%	\$936	\$1,212
	5338	MARSH MITIGATION CREDIT INVENTORY	3.0%	\$1,089	\$1,368
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	3.0%	\$738	\$924
	6212	NTS INFILTRATION STUDY	3.0%	\$972	\$1,164
	1373	OCWD ANNEXATION FEE 16/17	3.0%	\$17,418	\$17,418

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
113 TU					
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	3.0%	\$4,959	\$6,474
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	3.0%	\$3,300	\$4,134
	6956	PURCHASE PVID EATON PROPERTY	3.0%	\$3,552	\$3,552
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	3.0%	\$120,123	\$126,540
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	3.0%	\$46,869	\$50,103
	7024	SANTA ANA DELHI DIVERSION PROJECT	3.0%	\$4,656	\$5,067
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	3.0%	\$13,803	\$21,201
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	3.0%	\$47,565	\$47,841
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	3.0%	\$162,732	\$165,504
	1038	TUSTIN LEGACY MASTER DW FACILITIES	100.0%	\$159,200	\$232,300
	6765	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 12" DW Z1	100.0%	\$89,900	\$108,700
	6109	TUSTIN LEGACY PARK AVE & MOFFETT DR 12" DW	100.0%	\$232,900	\$254,800
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	3.0%	\$2,271	\$2,271
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	3.0%	\$516	\$654
	4366	TUSTIN LEGACY TUSTIN RANCH, BARRANCA, ARMSTRONG DW	100.0%	\$7,100	\$7,100
	4510	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN RANCH DW	100.0%	\$4,200	\$4,200
	4988	TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY DW	100.0%	\$1,600	\$1,600
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	3.0%	\$3,795	\$5,184
	6245	WATER BANKING AGREEMENTS 16/18	3.0%	\$6,603	\$9,378
	6247	WATER BANKING PLANNING 16/17	3.0%	\$4,125	\$6,900
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	3.0%	\$2,802	\$3,216
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	3.0%	\$159	\$201
	5431	WRMP UPDATE DW	3.0%	\$1,320	\$2,430
	6401	ZONE 1 RESERVOIR NO. 2	3.0%	\$24,528	\$29,859
				\$1,452,715	\$1,644,152

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
125-DevID_Potable					
	7233	BAKER SOLAR	47.5%	\$21,565	\$25,983
	5027	BAKER WATER TREATMENT PLANT	47.5%	\$4,950,213	\$5,211,225
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	47.5%	\$114,950	\$202,825
	6160	CENTRALIZED CONTROL ROOM AT MWRP	47.5%	\$855	\$2,090
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	47.5%	\$787,740	\$841,035
	5410	COASTAL ZONE 2 PRV MODIFICATION (DPR16)	100.0%	\$1,900	\$4,600
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	47.5%	\$10,925	\$11,495
	6165	DRWF SURGE TANKS	47.5%	\$203,253	\$214,225
	5406	EL MODENA INLET MODIFICATION	47.5%	\$475	\$1,093
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	47.5%	\$395,628	\$495,045
	5475	GEN SYS MODS-DW 16/17	47.5%	\$90,393	\$109,773
	7174	GENERAL PLANT REGIONAL 16/17 DW	47.5%	\$205,438	\$205,438
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	47.5%	\$28,500	\$44,745
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	47.5%	\$758,433	\$806,598
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	47.5%	\$5,083	\$5,083
	1100	LAKE FOREST WELL 1 DRILLING	47.5%	\$18,383	\$22,753
	1117	LAKE FOREST WELL 1 WELLHEAD	47.5%	\$14,820	\$19,190
	5338	MARSH MITIGATION CREDIT INVENTORY	47.5%	\$17,243	\$21,660
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	47.5%	\$11,685	\$14,630
	6212	NTS INFILTRATION STUDY	47.5%	\$15,390	\$18,430
	1373	OCWD ANNEXATION FEE 16/17	47.5%	\$275,785	\$275,785
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	47.5%	\$78,518	\$102,505
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	47.5%	\$52,250	\$65,455
	6956	PURCHASE PVID EATON PROPERTY	47.5%	\$56,240	\$56,240
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	47.5%	\$1,901,948	\$2,003,550

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
125-DevID_Potable					
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	47.5%	\$742,093	\$793,298
	7024	SANTA ANA DELHI DIVERSION PROJECT	47.5%	\$73,720	\$80,228
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	47.5%	\$218,548	\$335,683
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	47.5%	\$753,113	\$757,483
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	47.5%	\$2,576,590	\$2,620,480
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	47.5%	\$35,958	\$35,958
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	47.5%	\$8,170	\$10,355
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	47.5%	\$60,088	\$82,080
	6245	WATER BANKING AGREEMENTS 16/18	47.5%	\$104,548	\$148,485
	6247	WATER BANKING PLANNING 16/17	47.5%	\$65,313	\$109,250
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	47.5%	\$44,365	\$50,920
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	47.5%	\$2,518	\$3,183
	5431	WRMP UPDATE DW	47.5%	\$20,900	\$38,475
	6401	ZONE 1 RESERVOIR NO. 2	47.5%	\$388,360	\$472,768
				\$15,111,888	\$16,320,090
153-FutDevID_Potable					
	7233	BAKER SOLAR	11.1%	\$5,039	\$6,072
	5027	BAKER WATER TREATMENT PLANT	11.1%	\$1,156,787	\$1,217,781
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	11.1%	\$26,862	\$47,397
	6160	CENTRALIZED CONTROL ROOM AT MWRP	11.1%	\$200	\$488
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	11.1%	\$184,082	\$196,537
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	11.1%	\$2,553	\$2,686
	6165	DRWF SURGE TANKS	11.1%	\$47,497	\$50,061
	5406	EL MODENA INLET MODIFICATION	11.1%	\$111	\$255
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	11.1%	\$92,452	\$115,684

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
153-FutDevID_Potable					
	5475	GEN SYS MODS-DW 16/17	11.1%	\$21,123	\$25,652
	7174	GENERAL PLANT REGIONAL 16/17 DW	11.1%	\$48,008	\$48,008
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	11.1%	\$6,660	\$10,456
	6849	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	40.0%	\$113,960	\$124,040
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	11.1%	\$177,234	\$188,489
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	11.1%	\$1,188	\$1,188
	1100	LAKE FOREST WELL 1 DRILLING	11.1%	\$4,296	\$5,317
	1117	LAKE FOREST WELL 1 WELLHEAD	11.1%	\$3,463	\$4,484
	5338	MARSH MITIGATION CREDIT INVENTORY	11.1%	\$4,029	\$5,062
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	11.1%	\$2,731	\$3,419
	6212	NTS INFILTRATION STUDY	11.1%	\$3,596	\$4,307
	1373	OCWD ANNEXATION FEE 16/17	11.1%	\$64,447	\$64,447
	1354	PA1 16" Z5 PIPE, 5-4 PRVS NEIGHBORHOOD 3	100.0%	\$11,000	\$29,400
	7012	PA1 NHB3 ORCHARD HILLS 16" DW Z5	100.0%	\$100,700	\$132,600
	4680	PA18S HIDDEN CANYON 12" DW	100.0%	\$7,300	\$7,300
	5756	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12" ZN 4	1.8%	\$536	\$652
	5816	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 12" DW	79.1%	\$41,211	\$48,093
	6683	PA51 GP BENCHMARK AND MODJEKSA (DISTRICT 4) 12" DW	1.8%	\$1,598	\$1,899
	6552	PA51 GP BENCHMARK AND PERSPECTIVE 12" DW Z4R	1.8%	\$1,377	\$1,665
	6534	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" DW Z4	1.8%	\$401	\$506
	6512	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" DW	79.1%	\$177,342	\$210,248
	6536	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" DW	79.1%	\$255,651	\$310,468
	6016	PA51 IRVINE BLVD, LAMBERT TO Z ST 12" DW	1.8%	\$1,843	\$2,219
	4153	PA51 MARINE WAY DW ZN3	79.1%	\$17,007	\$19,063
	6086	PA51 MARINE WAY FROM ALTON TO BARRANCA 12" DW ZN 3	79.1%	\$8,859	\$8,859

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
153-FutDevID_Potable					
	4512	PA5B PHASE 1A 12" ZONE 3 DW	100.0%	\$4,700	\$4,700
	5243	PA6 NEIGHBORHOOD 4B 6" RW ZONE D	100.0%	\$23,100	\$23,100
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	11.1%	\$18,348	\$23,954
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	11.1%	\$12,210	\$15,296
	6956	PURCHASE PVID EATON PROPERTY	11.1%	\$13,142	\$13,142
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	11.1%	\$444,455	\$468,198
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	11.1%	\$173,415	\$185,381
	7024	SANTA ANA DELHI DIVERSION PROJECT	11.1%	\$17,227	\$18,748
	7136	SANTIAGO HILLS II DOMESTIC WATER BPS	100.0%	\$275,700	\$323,400
	7138	SANTIAGO HILLS II DOMESTIC WATER RESERVOIR	100.0%	\$746,700	\$846,400
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	11.1%	\$51,071	\$78,444
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	11.1%	\$175,991	\$177,012
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	11.1%	\$602,108	\$612,365
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	11.1%	\$8,403	\$8,403
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	11.1%	\$1,909	\$2,420
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	11.1%	\$14,042	\$19,181
	6245	WATER BANKING AGREEMENTS 16/18	11.1%	\$24,431	\$34,699
	6247	WATER BANKING PLANNING 16/17	11.1%	\$15,263	\$25,530
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	11.1%	\$10,367	\$11,899
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	11.1%	\$588	\$744
	5431	WRMP UPDATE DW	11.1%	\$4,884	\$8,991
	6401	ZONE 1 RESERVOIR NO. 2	11.1%	\$90,754	\$110,478
				\$5,319,952	\$5,907,284
154					
	7233	BAKER SOLAR	0.4%	\$182	\$219

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
154					
	5027	BAKER WATER TREATMENT PLANT	0.4%	\$41,686	\$43,884
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	0.4%	\$968	\$1,708
	6160	CENTRALIZED CONTROL ROOM AT MWRP	0.4%	\$7	\$18
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	0.4%	\$6,634	\$7,082
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	0.4%	\$92	\$97
	6165	DRWF SURGE TANKS	0.4%	\$1,712	\$1,804
	5406	EL MODENA INLET MODIFICATION	0.4%	\$4	\$9
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	0.4%	\$3,332	\$4,169
	5475	GEN SYS MODS-DW 16/17	0.4%	\$761	\$924
	7174	GENERAL PLANT REGIONAL 16/17 DW	0.4%	\$1,730	\$1,730
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	0.4%	\$240	\$377
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	0.4%	\$6,387	\$6,792
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	0.4%	\$43	\$43
	1100	LAKE FOREST WELL 1 DRILLING	0.4%	\$155	\$192
	1117	LAKE FOREST WELL 1 WELLHEAD	0.4%	\$125	\$162
	5338	MARSH MITIGATION CREDIT INVENTORY	0.4%	\$145	\$182
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	0.4%	\$98	\$123
	6212	NTS INFILTRATION STUDY	0.4%	\$130	\$155
	1373	OCWD ANNEXATION FEE 16/17	0.4%	\$2,322	\$2,322
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	0.4%	\$661	\$863
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	0.4%	\$440	\$551
	6956	PURCHASE PVID EATON PROPERTY	0.4%	\$474	\$474
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	0.4%	\$16,016	\$16,872
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	0.4%	\$6,249	\$6,680
	7024	SANTA ANA DELHI DIVERSION PROJECT	0.4%	\$621	\$676

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
154					
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	0.4%	\$1,840	\$2,827
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	0.4%	\$6,342	\$6,379
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	0.4%	\$21,698	\$22,067
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	0.4%	\$303	\$303
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	0.4%	\$69	\$87
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	0.4%	\$506	\$691
	6245	WATER BANKING AGREEMENTS 16/18	0.4%	\$880	\$1,250
	6247	WATER BANKING PLANNING 16/17	0.4%	\$550	\$920
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	0.4%	\$374	\$429
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	0.4%	\$21	\$27
	5431	WRMP UPDATE DW	0.4%	\$176	\$324
	6401	ZONE 1 RESERVOIR NO. 2	0.4%	\$3,270	\$3,981
				\$127,242	\$137,394
185-LF_OSA					
	7233	BAKER SOLAR	1.6%	\$726	\$875
	5027	BAKER WATER TREATMENT PLANT	1.6%	\$166,744	\$175,536
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	1.6%	\$3,872	\$6,832
	6160	CENTRALIZED CONTROL ROOM AT MWRP	1.6%	\$29	\$70
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	1.6%	\$26,534	\$28,330
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	1.6%	\$368	\$387
	6165	DRWF SURGE TANKS	1.6%	\$6,846	\$7,216
	5406	EL MODENA INLET MODIFICATION	1.6%	\$16	\$37
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	1.6%	\$13,326	\$16,675
	5475	GEN SYS MODS-DW 16/17	1.6%	\$3,045	\$3,698
	7174	GENERAL PLANT REGIONAL 16/17 DW	1.6%	\$6,920	\$6,920

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
185-LF_OSA					
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	1.6%	\$960	\$1,507
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	1.6%	\$25,547	\$27,170
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	1.6%	\$171	\$171
	1181	LAKE FOREST DW OFFSITE IMPROVEMENTS	100.0%	\$68,700	\$107,600
	1100	LAKE FOREST WELL 1 DRILLING	1.6%	\$619	\$766
	1117	LAKE FOREST WELL 1 WELLHEAD	1.6%	\$499	\$646
	5404	LAKE FOREST Z2-2RA PRV AT COMMERCENTRE	100.0%	\$16,500	\$17,800
	5338	MARSH MITIGATION CREDIT INVENTORY	1.6%	\$581	\$730
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	1.6%	\$394	\$493
	6212	NTS INFILTRATION STUDY	1.6%	\$518	\$621
	1373	OCWD ANNEXATION FEE 16/17	1.6%	\$9,290	\$9,290
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	1.6%	\$2,645	\$3,453
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	1.6%	\$1,760	\$2,205
	6956	PURCHASE PVID EATON PROPERTY	1.6%	\$1,894	\$1,894
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	1.6%	\$64,066	\$67,488
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	1.6%	\$24,997	\$26,722
	7024	SANTA ANA DELHI DIVERSION PROJECT	1.6%	\$2,483	\$2,702
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	1.6%	\$7,362	\$11,307
	7133	SERRANO SUMMIT DW IMPROVEMENTS	100.0%	\$97,300	\$174,800
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	1.6%	\$25,368	\$25,515
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	1.6%	\$86,790	\$88,269
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	1.6%	\$1,211	\$1,211
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	1.6%	\$275	\$349
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	1.6%	\$2,024	\$2,765
	6245	WATER BANKING AGREEMENTS 16/18	1.6%	\$3,522	\$5,002

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
185-LF_OSA					
	6247	WATER BANKING PLANNING 16/17	1.6%	\$2,200	\$3,680
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	1.6%	\$1,494	\$1,715
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	1.6%	\$85	\$107
	5431	WRMP UPDATE DW	1.6%	\$704	\$1,296
	6401	ZONE 1 RESERVOIR NO. 2	1.6%	\$13,082	\$15,925
				\$691,468	\$849,774
188					
	7233	BAKER SOLAR	0.5%	\$227	\$274
	5027	BAKER WATER TREATMENT PLANT	0.5%	\$52,108	\$54,855
	5428	CAPITAL PLANNING SUPPORT 16/17 DW	0.5%	\$1,210	\$2,135
	6160	CENTRALIZED CONTROL ROOM AT MWRP	0.5%	\$9	\$22
	4409	CHLORAMINE BOOSTER STATIONS AT 2 DW RESERVOIRS	0.5%	\$8,292	\$8,853
	5411	COMPRESSED NATURAL GAS MOTOR FUEL	0.5%	\$115	\$121
	6165	DRWF SURGE TANKS	0.5%	\$2,140	\$2,255
	5406	EL MODENA INLET MODIFICATION	0.5%	\$5	\$12
	3566	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	0.5%	\$4,165	\$5,211
	5475	GEN SYS MODS-DW 16/17	0.5%	\$952	\$1,156
	7174	GENERAL PLANT REGIONAL 16/17 DW	0.5%	\$2,163	\$2,163
	6200	GIS SUPPORT APPLICATIONS 16/17 - DOMESTIC	0.5%	\$300	\$471
	6213	IDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	0.5%	\$7,984	\$8,491
	1459	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	0.5%	\$54	\$54
	1100	LAKE FOREST WELL 1 DRILLING	0.5%	\$194	\$240
	1117	LAKE FOREST WELL 1 WELLHEAD	0.5%	\$156	\$202
	5338	MARSH MITIGATION CREDIT INVENTORY	0.5%	\$182	\$228
	7095	MEMBRANE PLANTS NEW ANTISCALANT PILOT TESTING	0.5%	\$123	\$154

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
188					
	6212	NTS INFILTRATION STUDY	0.5%	\$162	\$194
	1373	OCWD ANNEXATION FEE 16/17	0.5%	\$2,903	\$2,903
	6214	PDF SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM	0.5%	\$827	\$1,079
	7082	POTABLE REUSE ALTERNATIVES ANALYSIS DW	0.5%	\$550	\$689
	6956	PURCHASE PVID EATON PROPERTY	0.5%	\$592	\$592
	6023	ROSEDALE DROUGHT RELIEF PROJECT FACILITIES	0.5%	\$20,021	\$21,090
	6168	SAN JOAQUIN MARSH IMPROVEMENTS	0.5%	\$7,812	\$8,351
	7024	SANTA ANA DELHI DIVERSION PROJECT	0.5%	\$776	\$845
	1398	SANTIAGO HILLS II DW TRANSMISSION SYSTEM	0.5%	\$2,301	\$3,534
	5499	STOCKDALE STORAGE FOR RECOVERY CAPACITY	0.5%	\$7,928	\$7,974
	3766	STOCKDALE WEST INTEGRATED WATER BANKING PROJECT	0.5%	\$27,122	\$27,584
	6215	TUSTIN LEGACY RED HILL WELL ACQUISITION	0.5%	\$379	\$379
	7140	TUSTIN LEGACY REDHILL WELL DRILLING AND EQUIPPING	0.5%	\$86	\$109
	7152	WATER AND ENERGY PLANNING STUDIES DW 16/17	0.5%	\$633	\$864
	6245	WATER BANKING AGREEMENTS 16/18	0.5%	\$1,101	\$1,563
	6247	WATER BANKING PLANNING 16/17	0.5%	\$688	\$1,150
	6013	WATER SUPPLY AND SYSTEM RELIABILITY MODEL	0.5%	\$467	\$536
	1402	WELLS 51/52/53 TREATMENT ALTERNATIVES STUDY	0.5%	\$27	\$34
	5431	WRMP UPDATE DW	0.5%	\$220	\$405
	6401	ZONE 1 RESERVOIR NO. 2	0.5%	\$4,088	\$4,977
				\$159,053	\$171,742
201-Rep					
	5483	1" TO 2" METER REPLACEMENT-RW 16/17	100.0%	\$117,000	\$130,900
	7086	CALIFORNIA AVE RW PIPELINE, ACADEMY TO THEORY	100.0%	\$13,000	\$17,600
	5481	CSR METER REPLACEMENT-RW 16/17	100.0%	\$112,200	\$115,900

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
201-Rep					
	4395	EBS UPGRADE ID CONSOL AND PROJECT MGMT IMPLEMENT	100.0%	\$1,568,600	\$2,025,500
	7009	FPS2 PIPELINE MANIFOLD REPLACEMENT	100.0%	\$166,100	\$258,600
	7180	GENERAL PLANT - CONSERVATION	100.0%	\$80,000	\$80,000
	7178	GENERAL PLANT REPLACEMENT 16/17 SEWER	100.0%	\$853,900	\$853,900
	1257	HQ OFFICE IMPROVEMENTS	100.0%	\$13,700	\$18,400
	1549	HQ OFFICE IMPROVEMENTS	100.0%	\$41,200	\$59,000
	6850	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	60.0%	\$18,900	\$20,640
	5823	ILP NORTH CONVERSION - PIPELINES	2.1%	\$138,978	\$143,499
	5407	ILP NORTH CONVERSION - RESERVOIR	0.3%	\$21,132	\$21,414
	5156	LAGUNA CANYON RD RW PIPELINE CORROSION REPLACE	100.0%	\$2,000	\$4,600
	5478	LAWRP SYSTEM REPLACEMENTS 16/17	100.0%	\$132,000	\$132,000
	5174	MAIN ST DIVERSION STRUCTURE GROUND SETTLING	100.0%	\$95,700	\$131,000
	5520	MAINTENANCE ACCESS FOR FOUR SEWER REACHES	100.0%	\$1,400	\$3,300
	5451	MECH & ELEC SYS REPLACEMENT - RW 16/17	100.0%	\$660,000	\$660,000
	5449	MECH & ELEC SYS REPLACEMENT - SEWER 16/17	100.0%	\$550,000	\$550,000
	7097	MICHELSON DI SFM RELINING	100.0%	\$4,000	\$10,500
	4457	MULTI-ZONE BPS - ZONE A-B	13.7%	\$66,198	\$85,817
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	45.5%	\$20,736,261	\$21,284,900
	5469	MWRP FPS 2 ROOF REPLACEMENT	100.0%	\$343,800	\$378,500
	4467	MWRP REPAIRS: ACT SLUDGE, 2DARY TANKS, RAS/WAS	100.0%	\$181,700	\$263,800
	5455	MWRP SYS REPLACEMENTS 16/17	100.0%	\$442,200	\$445,900
	5470	NEWPORT COAST SLS AND FM RECOATING (REHAB)	100.0%	\$1,033,300	\$1,104,700
	1554	OCSD CORF 15/16	72.7%	\$874,508	\$874,508
	1561	OCSD CORF 16/17	72.7%	\$3,352,706	\$3,352,706
	1429	OCSD SOLIDS HANDLING 16/17	45.5%	\$632,905	\$632,905

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
201-Rep					
	7118	OPS CENTER ROOF REPLACEMENT	100.0%	\$166,000	\$272,500
	7119	OPS CENTER ROOF REPLACEMENT	100.0%	\$166,000	\$194,700
	5302	RAISE MANHOLES TO GRADE 16/17 UNDER RA	100.0%	\$346,500	\$374,300
	5305	RAISE RW SYSTEM VALVES 16/17 UNDER RA	100.0%	\$138,600	\$149,700
	5476	RATTLESNAKE ZONE A BPS REBUILD	100.0%	\$5,300	\$14,600
	7098	REBUILD SMH ON MAIN ST E/O MACARTHUR	100.0%	\$500	\$1,200
	7085	REPLACEMENT PLANNING RW	100.0%	\$49,900	\$133,800
	3780	SAN JOAQUIN RESERVOIR LINER REPLACEMENT	100.0%	\$8,900	\$11,400
	7099	SEA WATCH RW MAIN REPLACEMENT (S/O PACIFIC MIST)	100.0%	\$2,100	\$5,500
	5452	SERVICE LINE, VALVE & MAIN REPLACEMENT-RW 16/17	100.0%	\$515,800	\$534,300
	5457	SEWER GEN SYS MODS 16/17	100.0%	\$330,000	\$330,000
	5471	SEWER LATERAL & MAIN REPLACEMENT 16/17	100.0%	\$218,900	\$237,400
	7100	SEWER LINE REPAIRS	100.0%	\$500	\$1,300
	3750	SOCWA ETM PROTECTION - TRAIL BRIDGE CROSSING	100.0%	\$5,500	\$14,800
	7101	UCI CT RW CONV ACADEMY WAY	60.0%	\$570,900	\$593,160
	7102	UCI CT RW CONV CALIFORNIA, UNIV TO ACADEMY	60.0%	\$207,900	\$230,160
	7103	UCI CT RW CONVERSION ONSITE PIPELINES	100.0%	\$79,800	\$79,800
	7172	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	75.0%	\$98,550	\$116,550
	7171	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	75.0%	\$98,550	\$116,550
	7112	VACTOR ACCESS TO SMH ON SO IRVINE INTERCEPTOR	100.0%	\$1,400	\$3,800
	6123	VAULT LID REPLACEMENT - RW	100.0%	\$1,600	\$4,200
	6122	VAULT LID REPLACEMENT - SEWER	100.0%	\$3,300	\$5,900
				\$35,269,889	\$37,086,110
210	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	33.1%	\$115,850	\$130,149

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
210					
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	14.6%	\$35,332	\$62,342
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	33.1%	\$80,102	\$141,337
	6161	CENTRALIZED CONTROL ROOM AT MWRP	33.1%	\$596	\$1,456
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	33.1%	\$275,690	\$344,968
	5480	GEN SYS MODS-RW 16/17	14.6%	\$14,863	\$18,119
	7176	GENERAL PLANT REGIONAL 16/17 RW	14.6%	\$41,654	\$41,654
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	33.1%	\$96,718	\$96,718
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	14.6%	\$8,760	\$13,753
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	33.1%	\$19,860	\$31,180
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	33.1%	\$1,854	\$1,854
	4397	LAWRP SYSTEM UPGRADES	33.1%	\$1,920	\$2,880
	7096	METER AND VAULT FOR OSO RESERVOIR	14.6%	\$365	\$934
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	18.9%	\$8,613,524	\$8,841,420
	7158	NON-POTABLE WATER STUDIES 16/17	14.6%	\$8,760	\$11,461
	7156	NTS INSTRUMENTATION	14.6%	\$24,134	\$32,251
	1554	OCSD CORF 15/16	9.0%	\$108,698	\$108,698
	1561	OCSD CORF 16/17	9.0%	\$416,727	\$416,727
	1516	OCSD EQUITY 15/16	33.1%	\$758,983	\$758,983
	1530	OCSD EQUITY 16/17	33.1%	\$2,617,250	\$2,617,250
	7070	OCSD SJHPC/ GRS	33.1%	\$264,370	\$264,370
	1429	OCSD SOLIDS HANDLING 16/17	18.9%	\$262,899	\$262,899
	7137	OPA ZONE C+ PIPELINES	14.6%	\$136,291	\$147,066
	6167	OPS CENTER PERMANENT GENERATOR	33.1%	\$177,085	\$198,534
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	14.6%	\$8,570	\$8,570
	4514	PA5B PHASE 1A AND 1B 36" RW	14.6%	\$11,680	\$11,680

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
210					
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	33.1%	\$140,510	\$143,786
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	33.1%	\$36,410	\$45,612
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	14.6%	\$119,647	\$149,373
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	14.6%	\$1,971	\$2,190
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	14.6%	\$33,478	\$38,851
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	33.1%	\$42,765	\$56,469
	5186	SJM SLS UPGRADE	33.1%	\$397	\$1,026
	5154	SJR SEISMIC EVALUATION (DSOD)	14.6%	\$102	\$248
	3808	SYPHON RESERVOIR EXPANSION	14.6%	\$11,972	\$17,140
	7101	UCI CT RW CONV ACADEMY WAY	40.0%	\$380,600	\$395,440
	7102	UCI CT RW CONV CALIFORNIA, UNIV TO ACADEMY	40.0%	\$138,600	\$153,440
	7171	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	25.0%	\$32,850	\$38,850
	7172	UNIVERSITY DR WIDENING APPURTENANCE RELOCATION	25.0%	\$32,850	\$38,850
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	33.1%	\$203,135	\$271,453
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	14.6%	\$44,180	\$59,115
	5432	WRMP UPDATE RW	14.6%	\$6,424	\$11,826
				\$15,328,423	\$15,990,922
212 ET					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	3.4%	\$11,900	\$13,369
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	10.7%	\$25,894	\$45,689
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	3.4%	\$8,228	\$14,518
	6161	CENTRALIZED CONTROL ROOM AT MWRP	3.4%	\$61	\$150
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	3.4%	\$28,319	\$35,435
	5480	GEN SYS MODS-RW 16/17	10.7%	\$10,893	\$13,279
	7176	GENERAL PLANT REGIONAL 16/17 RW	10.7%	\$30,527	\$30,527

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
212 ET					
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	3.4%	\$9,935	\$9,935
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	10.7%	\$6,420	\$10,079
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	3.4%	\$2,040	\$3,203
	1167	GREAT PARK COORDINATION AND SAMP UPDATE	100.0%	\$3,500	\$5,000
	6198	IIC ZONE B BPS UPGRADES	54.2%	\$132,682	\$143,034
	5823	ILP NORTH CONVERSION - PIPELINES	2.5%	\$165,450	\$170,833
	5407	ILP NORTH CONVERSION - RESERVOIR	40.1%	\$2,824,684	\$2,862,378
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	3.4%	\$190	\$190
	4397	LAWRP SYSTEM UPGRADES	3.4%	\$197	\$296
	7096	METER AND VAULT FOR OSO RESERVOIR	10.7%	\$268	\$685
	4457	MULTI-ZONE BPS - ZONE A-B	48.2%	\$232,902	\$301,925
	4400	MULTI-ZONE BPS - ZONE A-C	56.0%	\$267,176	\$352,240
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	1.5%	\$683,613	\$701,700
	7158	NON-POTABLE WATER STUDIES 16/17	10.7%	\$6,420	\$8,400
	6216	NORTHWOOD ZONE B BPS DEMOLITION	54.2%	\$2,981	\$8,022
	7156	NTS INSTRUMENTATION	10.7%	\$17,687	\$23,636
	1554	OCSD CORF 15/16	0.9%	\$11,165	\$11,165
	1561	OCSD CORF 16/17	0.9%	\$42,806	\$42,806
	1516	OCSD EQUITY 15/16	3.4%	\$77,962	\$77,962
	1530	OCSD EQUITY 16/17	3.4%	\$268,841	\$268,841
	7070	OCSD SJHPC/ GRS	3.4%	\$27,156	\$27,156
	1429	OCSD SOLIDS HANDLING 16/17	1.5%	\$20,865	\$20,865
	7137	OPA ZONE C+ PIPELINES	10.7%	\$99,885	\$107,781
	6167	OPS CENTER PERMANENT GENERATOR	3.4%	\$18,190	\$20,393
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	10.7%	\$6,281	\$6,281

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
212 ET					
	3734	PA40 TRAVELAND RW FACILITIES	21.0%	\$1,008	\$1,596
	5757	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN C	87.4%	\$25,783	\$29,279
	5788	PA51 ALTON PKWY SS RELOCATION 12" AND 18"	100.0%	\$222,300	\$270,600
	5818	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 16" RW	87.4%	\$92,207	\$105,230
	5817	PA51 ALTON, TECHNOLOGY TO MUIRLANDS SS RELOCATION	100.0%	\$412,000	\$443,000
	6306	PA51 BENCHMARK, BOSQUE TO 550'E/O BOSQUE 6" ZC	100.0%	\$25,700	\$31,500
	4646	PA51 C ST FROM LQ ST TO O ST RW	100.0%	\$6,800	\$6,800
	5016	PA51 C ST FROM LV ST TO TRABUCO SEWER	100.0%	\$9,000	\$9,000
	4653	PA51 C ST FROM TRABUCO RD TO LQ ST SEWER	100.0%	\$9,100	\$9,100
	5758	PA51 CADENCE - PUSAN TO CHINON 12" & 16"	87.4%	\$63,278	\$71,406
	6684	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4) 10"/6"	99.6%	\$562,740	\$677,479
	6553	PA51 GP BENCHMARK AND PERSPECTIVE 16" SS	100.0%	\$126,700	\$152,900
	6554	PA51 GP BENCHMARK AND PERSPECTIVE 6" RW ZC	99.6%	\$67,230	\$80,875
	6331	PA51 GP CULTIVATE (BOSQUE TO 500 E/O BOSQUE) 16"	100.0%	\$7,900	\$7,900
	6823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16" RW ZC	99.6%	\$208,861	\$251,390
	6514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10" RW	87.4%	\$293,227	\$353,795
	6747	PA51 GP IRVINE BLVD (AT MERIT) 6" RW ZC	99.6%	\$18,028	\$23,306
	6732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6" RW ZB	87.4%	\$83,205	\$98,937
	6535	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" RW ZC	99.6%	\$55,079	\$66,533
	6595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6" RW ZB	99.6%	\$81,772	\$98,704
	6513	PA51 GP-1 ST (MARINE TO GP-2 ST) 12" SS	100.0%	\$595,300	\$720,100
	6538	PA51 GP-2 ST (BOSQUE TO GP1 ST) 10" RW	87.4%	\$578,501	\$687,576
	6537	PA51 GP-2 ST (BOSQUE TO GP1 ST) 12" SS	100.0%	\$199,500	\$241,100
	7022	PA51 GREAT PARK GP-2 (FROM GP-3 TO BOSQUE) 12"RWZC	99.6%	\$132,269	\$163,444
	6017	PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS	22.9%	\$17,106	\$20,931

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
212 ET					
	6018	PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW	99.6%	\$962,634	\$1,100,779
	4621	PA51 LN ST FROM C ST TO LY ST RW	100.0%	\$2,300	\$2,300
	5536	PA51 LQ ST FROM BOSQUE TO Z ST 12" RW	87.4%	\$102,782	\$124,458
	5535	PA51 LQ ST FROM BOSQUE TO Z ST 12" SEWER	100.0%	\$653,400	\$746,400
	4649	PA51 LQ ST FROM O ST TO LY ST RW	100.0%	\$1,900	\$1,900
	4648	PA51 LQ ST FROM O ST TO LY ST SEWER	100.0%	\$5,800	\$5,800
	4825	PA51 LV ST FROM RIDGE VALLEY TO LY ST 12" RW	100.0%	\$8,100	\$8,100
	4824	PA51 LV ST FROM RIDGE VALLEY TO LY ST 18" SEWER	100.0%	\$7,700	\$7,700
	4652	PA51 LY ST FROM LQ ST TO IRVINE BLVD RW	100.0%	\$27,800	\$27,800
	4651	PA51 LY ST FROM LQ ST TO IRVINE BLVD SEWER	100.0%	\$55,900	\$55,900
	4647	PA51 LY ST FROM TRABUCO RD TO LQ ST RW	100.0%	\$5,600	\$5,600
	4147	PA51 MARINE WAY RW ZNB	87.4%	\$24,122	\$26,832
	6087	PA51 MARINE WAY, ALTON TO BARRANCA 16" RW ZN B	87.4%	\$11,712	\$11,712
	6048	PA51 MARINE WAY, ALTON TO BARRANCA 18" SS	100.0%	\$59,200	\$59,200
	6209	PA51 MARINE WAY: SR133 TO RIDGE VALLEY 6" ZONE B	100.0%	\$40,300	\$50,500
	4614	PA51 REACH A SEWER IMPROVEMENTS	67.0%	\$428,733	\$455,131
	4278	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - RW	100.0%	\$14,600	\$14,600
	4267	PA51 RIDGE VALLEY, MARINE WAY TO TRABUCO - SEWER	100.0%	\$41,500	\$41,500
	4264	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - RW	100.0%	\$4,300	\$4,300
	4263	PA51 RIDGE VALLEY, TRABUCO TO IRVINE BLVD - SS	100.0%	\$10,100	\$10,100
	3983	PA51 TRABUCO RD, SR133 TO LY ST RW	100.0%	\$8,500	\$8,500
	3980	PA51 TRABUCO RD, SR133 TO LY ST SEWER	100.0%	\$2,500	\$2,500
	4514	PA5B PHASE 1A AND 1B 36" RW	10.7%	\$8,560	\$8,560
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	3.4%	\$14,433	\$14,770
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	3.4%	\$3,740	\$4,685

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
212 ET					
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	10.7%	\$87,687	\$109,472
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	10.7%	\$1,445	\$1,605
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	10.7%	\$24,535	\$28,473
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	3.4%	\$4,393	\$5,800
	5186	SJM SLS UPGRADE	3.4%	\$41	\$105
	5154	SJR SEISMIC EVALUATION (DSOD)	10.7%	\$75	\$182
	3808	SYPHON RESERVOIR EXPANSION	10.7%	\$8,774	\$12,562
	1015	TECHNOLOGY DR AND LAGUNA CANYON RD RW ZONE B	21.0%	\$294,987	\$312,459
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	10.7%	\$32,378	\$43,324
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	3.4%	\$20,866	\$27,883
	5432	WRMP UPDATE RW	10.7%	\$4,708	\$8,667
				\$11,925,814	\$13,310,410
213 TU					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	3.4%	\$11,900	\$13,369
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	4.1%	\$9,922	\$17,507
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	3.4%	\$8,228	\$14,518
	6161	CENTRALIZED CONTROL ROOM AT MWRP	3.4%	\$61	\$150
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	3.4%	\$28,319	\$35,435
	5480	GEN SYS MODS-RW 16/17	4.1%	\$4,174	\$5,088
	7176	GENERAL PLANT REGIONAL 16/17 RW	4.1%	\$11,697	\$11,697
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	3.4%	\$9,935	\$9,935
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	4.1%	\$2,460	\$3,862
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	3.4%	\$2,040	\$3,203
	5823	ILP NORTH CONVERSION - PIPELINES	1.0%	\$66,180	\$68,333
	5407	ILP NORTH CONVERSION - RESERVOIR	0.1%	\$7,044	\$7,138

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
213 TU					
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	3.4%	\$190	\$190
	4397	LAWRP SYSTEM UPGRADES	3.4%	\$197	\$296
	7096	METER AND VAULT FOR OSO RESERVOIR	4.1%	\$103	\$262
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	1.5%	\$683,613	\$701,700
	7158	NON-POTABLE WATER STUDIES 16/17	4.1%	\$2,460	\$3,219
	7156	NTS INSTRUMENTATION	4.1%	\$6,777	\$9,057
	1554	OCSD CORF 15/16	0.9%	\$11,165	\$11,165
	1561	OCSD CORF 16/17	0.9%	\$42,806	\$42,806
	1516	OCSD EQUITY 15/16	3.4%	\$77,962	\$77,962
	1530	OCSD EQUITY 16/17	3.4%	\$268,841	\$268,841
	7070	OCSD SJHPC/ GRS	3.4%	\$27,156	\$27,156
	1429	OCSD SOLIDS HANDLING 16/17	1.5%	\$20,865	\$20,865
	7137	OPA ZONE C+ PIPELINES	4.1%	\$38,274	\$41,299
	6167	OPS CENTER PERMANENT GENERATOR	3.4%	\$18,190	\$20,393
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	4.1%	\$2,407	\$2,407
	4514	PA5B PHASE 1A AND 1B 36" RW	4.1%	\$3,280	\$3,280
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	3.4%	\$14,433	\$14,770
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	3.4%	\$3,740	\$4,685
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	4.1%	\$33,600	\$41,947
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	4.1%	\$554	\$615
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	4.1%	\$9,401	\$10,910
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	3.4%	\$4,393	\$5,800
	5186	SJM SLS UPGRADE	3.4%	\$41	\$105
	5154	SJR SEISMIC EVALUATION (DSOD)	4.1%	\$29	\$70
	3808	SYPHON RESERVOIR EXPANSION	4.1%	\$3,362	\$4,813

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
213 TU					
	1101	TUSTIN LEGACY MASTER RW FACILITIES	100.0%	\$157,000	\$233,700
	1062	TUSTIN LEGACY MASTER SEWER FACILITIES	100.0%	\$120,000	\$165,700
	6766	TUSTIN LEGACY MOFFETT DR (AT PETERS CYN) 16" RW ZA	100.0%	\$176,200	\$212,100
	6110	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 15" SS	100.0%	\$330,800	\$367,900
	6111	TUSTIN LEGACY PARK AVE & MOFFETT DR 16" & 6" RW	100.0%	\$227,800	\$249,700
	6010	TUSTIN LEGACY PARK AVE FROM JAMBOREE TO VICTORY SS	100.0%	\$18,400	\$21,500
	4368	TUSTIN LEGACY TUSTIN RANCH, BARRANCA, ARMSTRONG RW	100.0%	\$15,400	\$15,400
	4511	TUSTIN LEGACY WARNER - LEGACY TO TUSTIN RANCH RW	100.0%	\$4,500	\$4,500
	4989	TUSTIN LEGACY WARNER FROM ARMSTRONG TO LEGACY RW	100.0%	\$7,700	\$7,700
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	3.4%	\$20,866	\$27,883
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	4.1%	\$12,407	\$16,601
	5432	WRMP UPDATE RW	4.1%	\$1,804	\$3,321
				\$2,528,674	\$2,830,854
225-DevID_Potable					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	48.5%	\$169,750	\$190,702
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	51.0%	\$123,420	\$217,770
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	48.5%	\$117,370	\$207,095
	6161	CENTRALIZED CONTROL ROOM AT MWRP	48.5%	\$873	\$2,134
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	48.5%	\$403,957	\$505,467
	5480	GEN SYS MODS-RW 16/17	51.0%	\$51,918	\$63,291
	7176	GENERAL PLANT REGIONAL 16/17 RW	51.0%	\$145,503	\$145,503
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	48.5%	\$141,717	\$141,717
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	51.0%	\$30,600	\$48,042
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	48.5%	\$29,100	\$45,687
	6198	IIC ZONE B BPS UPGRADES	23.1%	\$56,549	\$60,961

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
225-DevID_Potable					
	5823	ILP NORTH CONVERSION - PIPELINES	46.3%	\$3,064,134	\$3,163,818
	5407	ILP NORTH CONVERSION - RESERVOIR	16.8%	\$1,183,409	\$1,199,201
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	48.5%	\$2,716	\$2,716
	4397	LAWRP SYSTEM UPGRADES	48.5%	\$2,813	\$4,220
	7096	METER AND VAULT FOR OSO RESERVOIR	51.0%	\$1,275	\$3,264
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	27.7%	\$12,624,053	\$12,958,060
	7158	NON-POTABLE WATER STUDIES 16/17	51.0%	\$30,600	\$40,035
	6216	NORTHWOOD ZONE B BPS DEMOLITION	23.1%	\$1,271	\$3,419
	7156	NTS INSTRUMENTATION	51.0%	\$84,303	\$112,659
	1554	OCSD CORF 15/16	13.2%	\$159,270	\$159,270
	1561	OCSD CORF 16/17	13.2%	\$610,612	\$610,612
	1516	OCSD EQUITY 15/16	48.5%	\$1,112,105	\$1,112,105
	1530	OCSD EQUITY 16/17	48.5%	\$3,834,944	\$3,834,944
	7070	OCSD SJHPC/ GRS	48.5%	\$387,370	\$387,370
	1429	OCSD SOLIDS HANDLING 16/17	27.7%	\$385,307	\$385,307
	7137	OPA ZONE C+ PIPELINES	51.0%	\$476,085	\$513,723
	6167	OPS CENTER PERMANENT GENERATOR	48.5%	\$259,475	\$290,903
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	51.0%	\$29,937	\$29,937
	4514	PA5B PHASE 1A AND 1B 36" RW	51.0%	\$40,800	\$40,800
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	48.5%	\$205,883	\$210,684
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	48.5%	\$53,350	\$66,833
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	51.0%	\$417,945	\$521,781
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	51.0%	\$6,885	\$7,650
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	51.0%	\$116,943	\$135,711
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	48.5%	\$62,662	\$82,741

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
225-DevID_Potable					
	5186	SJM SLS UPGRADE	48.5%	\$582	\$1,504
	5154	SJR SEISMIC EVALUATION (DSOD)	51.0%	\$357	\$867
	3808	SYPHON RESERVOIR EXPANSION	51.0%	\$41,820	\$59,874
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	51.0%	\$154,326	\$206,499
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	48.5%	\$297,645	\$397,749
	5432	WRMP UPDATE RW	51.0%	\$22,440	\$41,310
				\$26,942,071	\$28,213,932
240					
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	7.7%	\$18,634	\$32,879
	5480	GEN SYS MODS-RW 16/17	7.7%	\$7,839	\$9,556
	7176	GENERAL PLANT REGIONAL 16/17 RW	7.7%	\$21,968	\$21,968
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	7.7%	\$4,620	\$7,253
	5823	ILP NORTH CONVERSION - PIPELINES	1.8%	\$119,124	\$122,999
	5407	ILP NORTH CONVERSION - RESERVOIR	0.3%	\$21,132	\$21,414
	7096	METER AND VAULT FOR OSO RESERVOIR	7.7%	\$193	\$493
	6400	NEWPORT COAST SLS IMPROVEMENTS	100.0%	\$1,523,400	\$1,610,700
	7158	NON-POTABLE WATER STUDIES 16/17	7.7%	\$4,620	\$6,045
	7156	NTS INSTRUMENTATION	7.7%	\$12,728	\$17,009
	7137	OPA ZONE C+ PIPELINES	7.7%	\$71,880	\$77,562
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	7.7%	\$4,520	\$4,520
	4514	PA5B PHASE 1A AND 1B 36" RW	7.7%	\$6,160	\$6,160
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	7.7%	\$63,102	\$78,779
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	7.7%	\$1,040	\$1,155
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	7.7%	\$17,656	\$20,490
	5154	SJR SEISMIC EVALUATION (DSOD)	7.7%	\$54	\$131

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
240					
	3808	SYPHON RESERVOIR EXPANSION	7.7%	\$6,314	\$9,040
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	7.7%	\$23,300	\$31,177
	5432	WRMP UPDATE RW	7.7%	\$3,388	\$6,237
				\$1,931,670	\$2,085,567
253-FutDevID_Sewer					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	9.7%	\$33,950	\$38,140
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	10.4%	\$25,168	\$44,408
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	9.7%	\$23,474	\$41,419
	6161	CENTRALIZED CONTROL ROOM AT MWRP	9.7%	\$175	\$427
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	9.7%	\$80,791	\$101,093
	5480	GEN SYS MODS-RW 16/17	10.4%	\$10,587	\$12,906
	7176	GENERAL PLANT REGIONAL 16/17 RW	10.4%	\$29,671	\$29,671
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	9.7%	\$28,343	\$28,343
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	10.4%	\$6,240	\$9,797
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	9.7%	\$5,820	\$9,137
	6850	IBC SIDEWALK IMP & APPURTENANCE RELOCATIONS	40.0%	\$12,600	\$13,760
	6198	IIC ZONE B BPS UPGRADES	22.7%	\$55,570	\$59,905
	5823	ILP NORTH CONVERSION - PIPELINES	46.0%	\$3,044,280	\$3,143,318
	5407	ILP NORTH CONVERSION - RESERVOIR	42.3%	\$2,979,654	\$3,019,416
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	9.7%	\$543	\$543
	4397	LAWRP SYSTEM UPGRADES	9.7%	\$563	\$844
	7096	METER AND VAULT FOR OSO RESERVOIR	10.4%	\$260	\$666
	4457	MULTI-ZONE BPS - ZONE A-B	38.1%	\$184,099	\$238,658
	4400	MULTI-ZONE BPS - ZONE A-C	44.0%	\$209,924	\$276,760
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	4.1%	\$1,868,542	\$1,917,980

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
253-FutDevID_Sewer					
	7158	NON-POTABLE WATER STUDIES 16/17	10.4%	\$6,240	\$8,164
	6216	NORTHWOOD ZONE B BPS DEMOLITION	22.7%	\$1,249	\$3,360
	7156	NTS INSTRUMENTATION	10.4%	\$17,191	\$22,974
	1554	OCSD CORF 15/16	2.6%	\$31,526	\$31,526
	1561	OCSD CORF 16/17	2.6%	\$120,863	\$120,863
	1516	OCSD EQUITY 15/16	9.7%	\$222,421	\$222,421
	1530	OCSD EQUITY 16/17	9.7%	\$766,989	\$766,989
	7070	OCSD SJHPC/ GRS	9.7%	\$77,474	\$77,474
	1429	OCSD SOLIDS HANDLING 16/17	4.1%	\$57,031	\$57,031
	7137	OPA ZONE C+ PIPELINES	10.4%	\$97,084	\$104,759
	6167	OPS CENTER PERMANENT GENERATOR	9.7%	\$51,895	\$58,181
	6915	PA 6 NBHD 5A 6" AND 8" RECYCLED WATER MAIN ZONE D	100.0%	\$235,100	\$282,500
	7017	PA1 NHB3 ORCHARD HILLS 6"8" RW ZC+	100.0%	\$150,100	\$185,200
	7013	PA1 NHB3 ORCHARD HILLS 6"8"10"12" RW ZC	100.0%	\$271,900	\$332,600
	4990	PA1 ORCHARD HILLS NEIGHBORHOOD 2, 6" ZNC RW	100.0%	\$2,900	\$2,900
	1716	PA1 ORCHARD HILLS NEIGHBORHOOD 3	100.0%	\$34,100	\$52,700
	1722	PA1 ORCHARD HILLS NEIGHBORHOOD 4	100.0%	\$74,200	\$139,000
	4717	PA1 ORCHARD HILLS NH 2 - 6" ZNB & 6" ZNC RW	100.0%	\$5,600	\$5,600
	5919	PA1 ORCHARD HILLS, NEIGHBORHOOD 1, 16" ZC 6" ZC+	100.0%	\$259,300	\$327,700
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	10.4%	\$6,105	\$6,105
	4681	PA18S HIDDEN CANYON 6" & 8" RW	100.0%	\$7,300	\$7,300
	3735	PA39 PH2 RW FACILITIES	100.0%	\$88,600	\$107,100
	1056	PA39 PHASE 1 RW PIPELINES	100.0%	\$200	\$200
	6056	PA40 8TH ST RIDGE VALLEY TO C ST CAPITAL 6" RW	100.0%	\$18,700	\$22,600
	4528	PA40 NEIGHBORHOOD 2G BACKBONE RW FACILITIES	100.0%	\$200	\$200

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
253-FutDevID_Sewer					
	4318	PA40 PH3B RW CAPITAL FACILITIES	100.0%	\$200	\$200
	3734	PA40 TRAVELAND RW FACILITIES	79.0%	\$3,792	\$6,004
	5757	PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN C	12.6%	\$3,717	\$4,221
	5818	PA51 ALTON, TECHNOLOGY TO MUIRLANDS 16" RW	12.6%	\$13,293	\$15,170
	5758	PA51 CADENCE - PUSAN TO CHINON 12" & 16"	12.6%	\$9,122	\$10,294
	6684	PA51 GP BENCHMARK AND MODJESKA (DISTRICT 4) 10"/6"	0.4%	\$2,260	\$2,721
	6554	PA51 GP BENCHMARK AND PERSPECTIVE 6" RW ZC	0.4%	\$270	\$325
	6823	PA51 GP EPISODE (FROM FRAME TO PUSAN) 16" RW ZC	0.4%	\$839	\$1,010
	6514	PA51 GP GP-1 ST (MARINE TO GP-2 ST) 10" RW	12.6%	\$42,273	\$51,005
	6747	PA51 GP IRVINE BLVD (AT MERIT) 6" RW ZC	0.4%	\$72	\$94
	6732	PA51 GP MAGNET (FROM RIDGE V. TO BOSQUE) 6" RW ZB	12.6%	\$11,995	\$14,263
	6535	PA51 GP PUSAN (EPISODE TO IRVINE BLVD) 12" RW ZC	0.4%	\$221	\$267
	6595	PA51 GP TERRAPIN (TRABUCO TO CADENCE) 6" RW ZB	0.4%	\$328	\$396
	6538	PA51 GP-2 ST (BOSQUE TO GP1 ST) 10" RW	12.6%	\$83,399	\$99,124
	7022	PA51 GREAT PARK GP-2 (FROM GP-3 TO BOSQUE) 12"RWZC	0.4%	\$531	\$656
	6017	PA51 IRVINE BLVD, LAMBERT TO Z ST 16" SS	77.1%	\$57,594	\$70,469
	6018	PA51 IRVINE BLVD, LAMBERT TO Z ST 20" RW	0.4%	\$3,866	\$4,421
	5536	PA51 LQ ST FROM BOSQUE TO Z ST 12" RW	12.6%	\$14,818	\$17,942
	4147	PA51 MARINE WAY RW ZNB	12.6%	\$3,478	\$3,868
	6087	PA51 MARINE WAY, ALTON TO BARRANCA 16" RW ZN B	12.6%	\$1,688	\$1,688
	6476	PA51 MARINE WAY. RIDGE VALLEY TO 3000' EAST	100.0%	\$181,100	\$213,700
	4614	PA51 REACH A SEWER IMPROVEMENTS	33.0%	\$211,167	\$224,169
	4515	PA5B IRVINE BLVD 8" ZONE B RW	100.0%	\$5,200	\$5,200
	4514	PA5B PHASE 1A AND 1B 36" RW	10.4%	\$8,320	\$8,320
	4513	PA5B PHASE 1A AND 1B 6" & 8" RW	100.0%	\$14,300	\$16,300

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
253-FutDevID_Sewer					
	4753	PA5B PHASE 2 6" RW	100.0%	\$2,600	\$2,600
	5763	PA6 NEIGHBORHOOD 5A RW ZONE D	100.0%	\$6,600	\$7,600
	4557	PA6 PHASE 1 NEIGHBORHOOD 3 ZONE C RW	100.0%	\$11,900	\$11,900
	1308	PA6 RW PIPELINES	100.0%	\$486,100	\$535,600
	1762	PA9B PHASE 5 GATEWAY PARK RW PIPES	100.0%	\$7,600	\$11,400
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	9.7%	\$41,177	\$42,137
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	9.7%	\$10,670	\$13,367
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	10.4%	\$85,228	\$106,402
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	10.4%	\$1,404	\$1,560
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	10.4%	\$23,847	\$27,674
	7139	SANTIAGO HILLS II RECYCLED WATER BPS	100.0%	\$275,700	\$323,400
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	9.7%	\$12,532	\$16,548
	5186	SJM SLS UPGRADE	9.7%	\$116	\$301
	5154	SJR SEISMIC EVALUATION (DSOD)	10.4%	\$73	\$177
	3808	SYPHON RESERVOIR EXPANSION	10.4%	\$8,528	\$12,210
	1015	TECHNOLOGY DR AND LAGUNA CANYON RD RW ZONE B	79.0%	\$1,109,713	\$1,175,441
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	9.7%	\$59,529	\$79,550
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	10.4%	\$31,470	\$42,110
	5432	WRMP UPDATE RW	10.4%	\$4,576	\$8,424
				\$14,057,730	\$15,122,868
256					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	0.3%	\$1,050	\$1,180
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	0.3%	\$726	\$1,281
	6161	CENTRALIZED CONTROL ROOM AT MWRP	0.3%	\$5	\$13
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	0.3%	\$2,499	\$3,127

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
256					
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	0.3%	\$877	\$877
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	0.3%	\$180	\$283
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	0.3%	\$17	\$17
	4397	LAWRP SYSTEM UPGRADES	0.3%	\$17	\$26
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	0.1%	\$45,574	\$46,780
	1554	OCSD CORF 15/16	0.1%	\$985	\$985
	1561	OCSD CORF 16/17	0.1%	\$3,777	\$3,777
	1516	OCSD EQUITY 15/16	0.3%	\$6,879	\$6,879
	1530	OCSD EQUITY 16/17	0.3%	\$23,721	\$23,721
	7070	OCSD SJHPC/ GRS	0.3%	\$2,396	\$2,396
	1429	OCSD SOLIDS HANDLING 16/17	0.1%	\$1,391	\$1,391
	6167	OPS CENTER PERMANENT GENERATOR	0.3%	\$1,605	\$1,799
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	0.3%	\$1,274	\$1,303
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	0.3%	\$330	\$413
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	0.3%	\$388	\$512
	5186	SJM SLS UPGRADE	0.3%	\$4	\$9
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	0.3%	\$1,841	\$2,460
				\$95,535	\$99,229
285-LF_OSA_Sewer					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	1.3%	\$4,550	\$5,112
	5429	CAPITAL PLANNING SUPPORT 16/17 RW	1.5%	\$3,630	\$6,405
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	1.3%	\$3,146	\$5,551
	6161	CENTRALIZED CONTROL ROOM AT MWRP	1.3%	\$23	\$57
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	1.3%	\$10,828	\$13,549
	5480	GEN SYS MODS-RW 16/17	1.5%	\$1,527	\$1,862

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
285-LF_OSA_Sewer					
	7176	GENERAL PLANT REGIONAL 16/17 RW	1.5%	\$4,280	\$4,280
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	1.3%	\$3,799	\$3,799
	6203	GIS SUPPORT APPLICATIONS 16/17 - RECYCLED	1.5%	\$900	\$1,413
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	1.3%	\$780	\$1,225
	5823	ILP NORTH CONVERSION - PIPELINES	0.3%	\$19,854	\$20,500
	5407	ILP NORTH CONVERSION - RESERVOIR	0.1%	\$7,044	\$7,138
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	1.3%	\$73	\$73
	7094	LAKE FOREST ZN A RESERVOIR DEMOLITION	100.0%	\$160,600	\$188,500
	4397	LAWRP SYSTEM UPGRADES	1.3%	\$75	\$113
	7096	METER AND VAULT FOR OSO RESERVOIR	1.5%	\$38	\$96
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	0.6%	\$273,445	\$280,680
	7158	NON-POTABLE WATER STUDIES 16/17	1.5%	\$900	\$1,178
	7156	NTS INSTRUMENTATION	1.5%	\$2,480	\$3,314
	1554	OCSD CORF 15/16	0.4%	\$4,269	\$4,269
	1561	OCSD CORF 16/17	0.4%	\$16,367	\$16,367
	1516	OCSD EQUITY 15/16	1.3%	\$29,809	\$29,809
	1530	OCSD EQUITY 16/17	1.3%	\$102,792	\$102,792
	7070	OCSD SJHPC/ GRS	1.3%	\$10,383	\$10,383
	1429	OCSD SOLIDS HANDLING 16/17	0.6%	\$8,346	\$8,346
	7137	OPA ZONE C+ PIPELINES	1.5%	\$14,003	\$15,110
	6167	OPS CENTER PERMANENT GENERATOR	1.3%	\$6,955	\$7,797
	5168	PA18S HIDDEN CANYON 36" RW PIPELINE	1.5%	\$881	\$881
	4514	PA5B PHASE 1A AND 1B 36" RW	1.5%	\$1,200	\$1,200
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	1.3%	\$5,519	\$5,647
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	1.3%	\$1,430	\$1,791

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
285-LF_OSA_Ssewer					
	6470	RANCHO PARKWAY ZONE C RECYCLED WATER PIPELINE	100.0%	\$144,600	\$157,400
	6243	RW CONVERSION IMPROVEMENTS FOR OFF-SITE 16/17	1.5%	\$12,293	\$15,347
	3779	SALT MANAGEMENT PLAN DEVELOPMENT	1.5%	\$203	\$225
	1813	SANTIAGO DAM & OUTLET TWR SEISMIC STABILITY	1.5%	\$3,440	\$3,992
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	1.3%	\$1,680	\$2,218
	7134	SERRANO SUMMIT RW IMPROVEMENTS	100.0%	\$68,900	\$137,700
	7135	SERRANO SUMMIT SEWER IMPROVEMENTS	100.0%	\$62,600	\$130,200
	5186	SJM SLS UPGRADE	1.3%	\$16	\$40
	5154	SJR SEISMIC EVALUATION (DSOD)	1.5%	\$11	\$26
	3808	SYPHON RESERVOIR EXPANSION	1.5%	\$1,230	\$1,761
	7141	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	1.5%	\$4,539	\$6,074
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	1.3%	\$7,978	\$10,661
	5432	WRMP UPDATE RW	1.5%	\$660	\$1,215
				\$1,008,071	\$1,216,091
288					
	6479	400/450 SPECTRUM CENTER DR 36" SS RELOCATION	0.3%	\$1,050	\$1,180
	5430	CAPITAL PLANNING SUPPORT 16/17 SEWER	0.3%	\$726	\$1,281
	6161	CENTRALIZED CONTROL ROOM AT MWRP	0.3%	\$5	\$13
	3567	ENTERPRISE ASSET MGMT SOFTWARE IMPLEMENTATION	0.3%	\$2,499	\$3,127
	7175	GENERAL PLANT REGIONAL 16/17 SEWER	0.3%	\$877	\$877
	6204	GIS SUPPORT APPLICATIONS 16/17 - SEWER	0.3%	\$180	\$283
	1152	IRWD PIPELINES RELOCATION FOR SC GRADE SEPARATION	0.3%	\$17	\$17
	4397	LAWRP SYSTEM UPGRADES	0.3%	\$17	\$26
	4286	MWRP BIOSOLIDS AND ENERGY RECOVERY FACILITIES	0.1%	\$45,574	\$46,780
	1554	OCSD CORF 15/16	0.1%	\$985	\$985

ID	Project No.	Project Title	Alloc	FY Direct	FY Direct+GA
288					
	1561	OCSD CORF 16/17	0.1%	\$3,777	\$3,777
	1516	OCSD EQUITY 15/16	0.3%	\$6,879	\$6,879
	1530	OCSD EQUITY 16/17	0.3%	\$23,721	\$23,721
	7070	OCSD SJHPC/ GRS	0.3%	\$2,396	\$2,396
	1429	OCSD SOLIDS HANDLING 16/17	0.1%	\$1,391	\$1,391
	6167	OPS CENTER PERMANENT GENERATOR	0.3%	\$1,605	\$1,799
	4985	PETERS CANYON WATER CAPTURE AND REUSE PIPELINE	0.3%	\$1,274	\$1,303
	7083	POTABLE REUSE ALTERNATIVES ANALYSIS SEWER	0.3%	\$330	\$413
	5412	SCSMP UPDATE AND LONG-TERM FLOW MONITORING	0.3%	\$388	\$512
	5186	SJM SLS UPGRADE	0.3%	\$4	\$9
	5427	WATER RECYCLING TREATMENT PLANT MASTER PLAN UPDATE	0.3%	\$1,841	\$2,460
				\$95,535	\$99,229
				\$160,176,713	\$171,207,813



CONSOLIDATED

GENERAL PLANT BUDGET

TASK		Item Description	Quantity	Price	Proposed 2016-17
Department:		INFORMATION SERVICES			
250	8030.250.1	Tablet Device (i.e. iPad, SurfacePro, etc.) With Protective Case	6	\$ 1,000	\$ 6,000
250	8031.250.1	Network Disk Storage Expansion and Replacement	1	30,000	30,000
250	8031.250.10	Audio Visual Equipment Replacement - Sand Canyon Board Room	1	37,500	37,500
250	8031.250.12	Audio Visual Equipment Replacement -Sand Canyon Conference Room B	1	4,800	4,800
250	8031.250.13	Audio Visual Equipment - Sand Canyon Calcutta Conference Room	1	4,800	4,800
250	8031.250.14	Audio Visual Equipment - OPS Center Windmill Conference Room	1	6,400	6,400
250	8031.250.2	Network Equipment Replacement	1	271,500	271,500
250	8031.250.3	Service Desk Software Licenses and Implementation	1	40,000	40,000
250	8031.250.4	Server Application Monitoring Software	1	3,000	3,000
250	8031.250.5	Electrical Analysis Software	1	16,500	16,500
250	8031.250.6	Debt and Investment Management Software	1	65,000	65,000
250	8031.250.7	Invoice Scanning and Capture System Replacement	1	48,000	48,000
250	8031.250.8	Audio Visual Equipment Replacement -Sand Canyon Committee Conference Room	1	6,000	6,000
250	8031.250.9	Audio Visual Equipment Replacement -Duck Club/ Adventure Room/ Discovery Room	1	10,200	10,200
250	8041.250.1	PC Purchases	74	1,284	95,000
250	8041.250.2	Laptop Computer Replacement	11	2,182	24,000
250	8041.250.3	Tablet Computer Replacement	13	2,154	28,000
Sub-Total					\$ 696,700
Department:		NTS OPERATIONS			
515	8036.515.1	Solar Mixer	1	\$ 26,000	\$ 26,000
515	8036.515.2	Composite Water Quality Sampler	1	7,500	7,500
515	8036.515.3	Composite Water Quality Sampler	1	7,500	7,500
515	8036.515.4	Composite Water Quality Sampler	1	7,500	7,500
515	8036.515.5	Composite Water Quality Sampler	1	7,500	7,500
515	8036.870.1	Electric Utility Vehicle	1	24,000	24,000
Sub-Total					\$ 80,000
Department:		COLLECTION SYSTEMS			
570	8036.870.2	6" Solids Handling Pump	1	\$ 33,200	\$ 33,200
570	8036.870.5	4" Solids Handling Pump	1	9,200	9,200
Sub-Total					\$ 42,400
Department:		WATER QUALITY ADMINISTRATION			
610	8031.610.1	Misc. Laboratory Equipment for Unplanned Projects and Regulatory Requirements	1	\$ 44,000	\$ 44,000
Sub-Total					\$ 44,000
Department:		WATER QUALITY ANALYSIS			
630	8031.630.1	Laboratory Equipment for Biosolids and Energy Recovery Project.	1	\$ 25,000	\$ 25,000
630	8036.630.1	Laboratory Instrumentation for Future Biosolids and Energy Recovery Project.	1	25,000	25,000
630	8036.630.2	Existing Laboratory Equipment Replacement	1	130,000	130,000
Sub-Total					\$ 180,000
Department:		ELECTRICAL SERVICES			
820	8033.820.1	Personal portable gas monitoring units	1	\$ 180,000	\$ 180,000
820	8038.870.1	Generators	1	2,600,000	2,600,000
Sub-Total					\$2,780,000



CONSOLIDATED

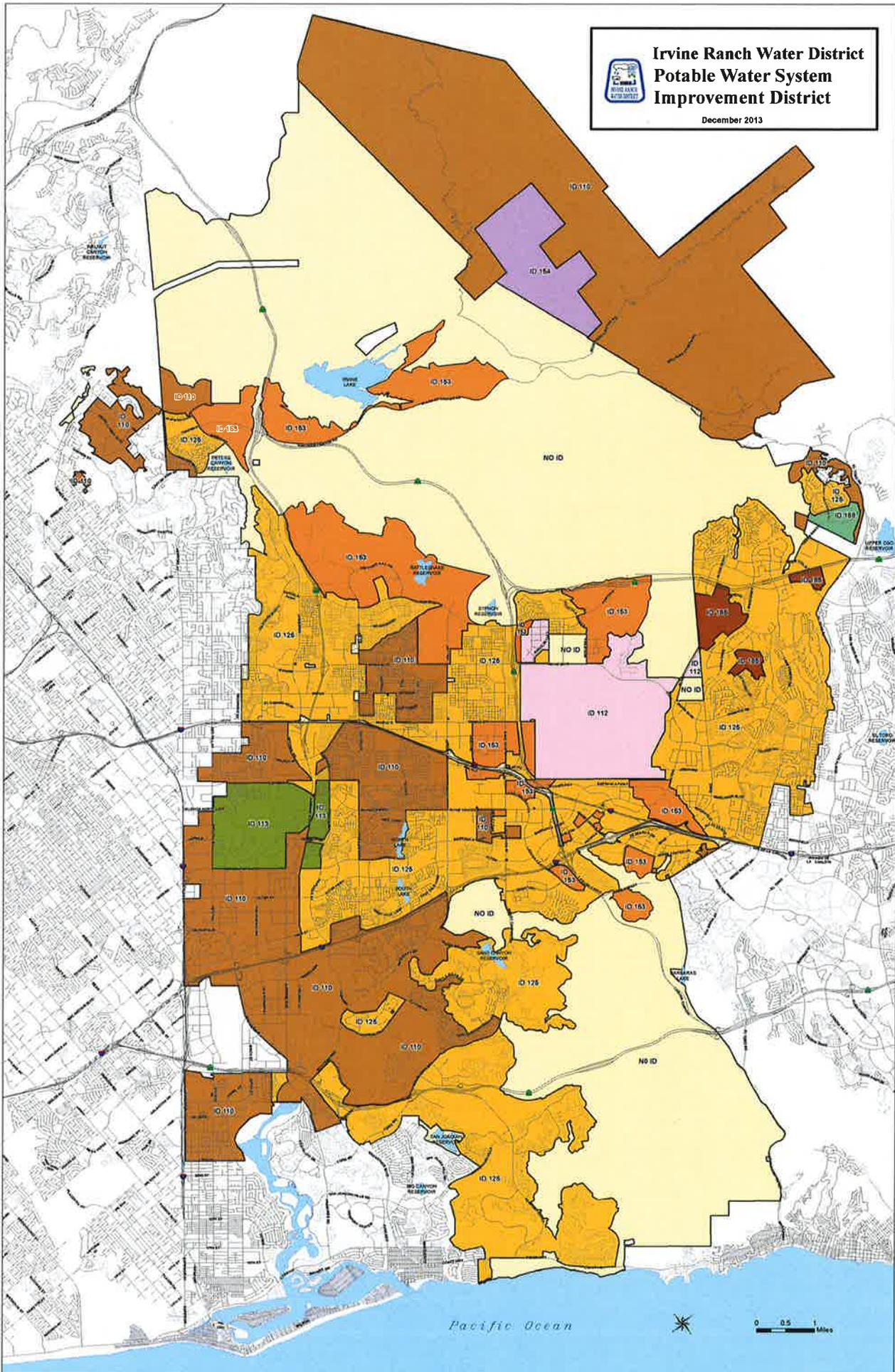
GENERAL PLANT BUDGET

TASK	Item Description	Quantity	Price	Proposed 2016-17
Department:				
840 8031.840.1	MECHANICAL SERVICES Laser alignment tool	1	\$ 30,000	\$ 30,000
840 8036.870.6	Electric Manlift	1	38,500	38,500
Sub-Total				\$ 68,500
Department:				
855 8011.855.1	FACILITIES SERVICES Headquarters Lobby Carpet	1	\$ 72,500	\$ 72,500
855 8011.855.2	Fitness and Strength Training Equipment	1	39,500	39,500
Sub-Total				\$ 112,000
Department:				
860 8023.860.1	FACILITIES SERVICES Office Cubicle Reconfiguration	1	\$ 80,000	\$ 80,000
Sub-Total				\$ 80,000
Department:				
870 8036.870.1	FLEET SERVICES Heavy Duty Semi Tractor	1	\$ 137,500	\$ 137,500
870 8036.870.2	Hydro excavator	1	535,000	535,000
870 8036.870.2	Light Utility Cart (Golf Cart w/utility bed)	1	14,200	14,200
870 8036.870.3	Light Utility Cart (Golf Cart w/utility bed)	1	14,200	14,200
870 8036.870.3	Light Utility Cart (Golf Cart)	1	9,400	9,400
870 8036.870.4	Light Utility Cart (Golf Cart)	1	9,400	9,400
870 8036.870.5	Light Utility Cart (Golf Cart)	1	9,400	9,400
870 8036.870.6	Light Utility Cart (Golf Cart)	1	9,400	9,400
870 8036.870.7	Concrete Saw	1	22,000	22,000
870 8055.870.1	Medium Duty Truck 4WD	1	33,500	33,500
870 8055.870.10	Medium Duty Van	1	27,500	27,500
870 8055.870.11	Medium Duty Truck 2WD	1	28,400	28,400
870 8055.870.12	Medium Duty Truck 4WD	1	29,500	29,500
870 8055.870.13	Medium Duty Truck 2WD	1	28,400	28,400
870 8055.870.14	Light Duty Truck 2WD	1	30,500	30,500
870 8055.870.15	Light Duty Truck 2WD	1	30,500	30,500
870 8055.870.16	Medium Duty Truck 2WD	1	28,400	28,400
870 8055.870.17	Medium Duty Truck 4WD	1	29,500	29,500
870 8055.870.2	Medium Duty Truck 4WD	1	33,500	33,500
870 8055.870.3	Compact Hybrid Sedan	1	28,000	28,000
870 8055.870.5	Medium Duty Truck 4WD	1	29,500	29,500
870 8055.870.6	Medium Duty Truck 4WD	1	29,500	29,500
870 8055.870.7	Medium Duty Truck 4WD	1	28,400	28,400
870 8055.870.8	Medium Duty Truck 4WD	1	29,500	29,500
870 8055.870.9	Medium Duty Truck 2WD	1	28,400	28,400
870 8056.870.1	Vactor	1	262,500	262,500
Sub-Total				\$ 1,496,000
Total General Plant				\$ 5,579,600



Irvine Ranch Water District Potable Water System Improvement District

December 2013





Irvine Ranch Water District Sewer System Improvement District

December 2013

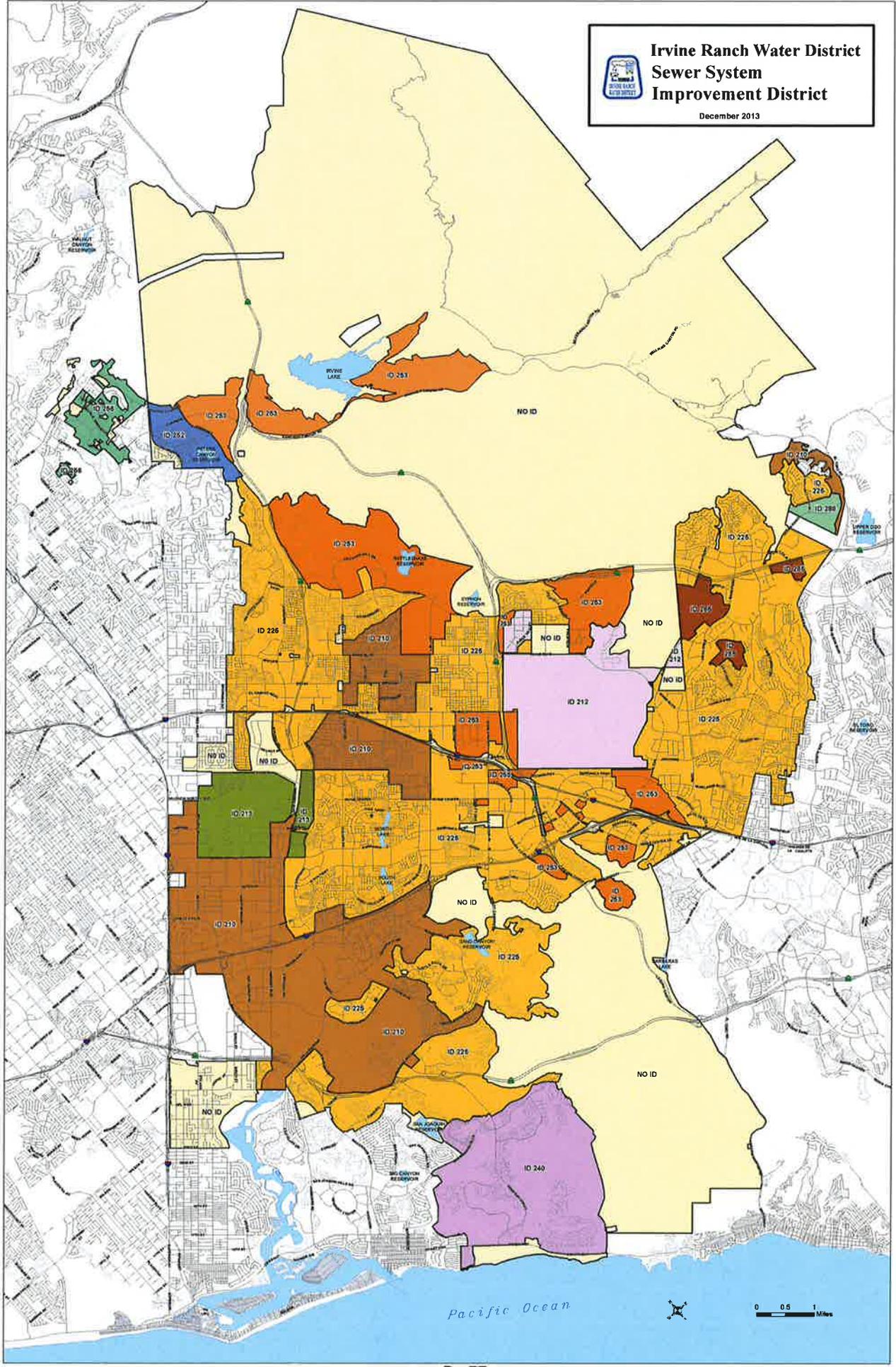


EXHIBIT "C"

RESOLUTION NO. 2016 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA,
APPROVING DISTRICT'S CAPITAL BUDGET
FOR FISCAL YEAR 2016-17

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has considered the capital project needs of IRWD for Fiscal Year 2016-17; and

WHEREAS, a Capital Budget, which includes both the capital expenditures projected for Fiscal Year 2016-17 and entire project budgets for the listed projects, as set forth in the attached Exhibit "A" has been prepared and reviewed by this Board of Directors; and

WHEREAS, during the review of the Capital Budget by the Board of Directors, the Board "flagged" certain capital expenditures for projects for further review by the Board; and

WHEREAS, Article XIII B of the Constitution of the State of California provides that the appropriations of local agencies will be limited each year to those of the previous year, adjusted for changes in population, cost of living and transfers in sources of funding; and

WHEREAS, Section 8 of Article XIII B excludes from its limitations user charges and fees and regulatory fees, to the extent such fees and charges do not produce revenue exceeding the costs reasonably borne in providing the regulation, product or service, and Section 9 of Article XIII B excludes from the appropriations subject to limitation an appropriation for a qualified capital outlay project, defined by statute as an appropriation for a fixed asset (including land and construction) with a useful life of 10 or more years and a value which equals or exceeds one hundred thousand dollars (\$100,000); and

WHEREAS, the expenditures identified in the Capital Budget are to be funded entirely from user fees and charges excluded by Article XIII B, Section 8, and other monies that are not proceeds of taxes, such as proceeds of bonds or other indebtedness, and/or are expenditures for qualified capital outlay projects pursuant to Article XIII B, Section 9.

NOW, THEREFORE, the Board of Directors of IRWD DOES HEREBY RESOLVE, DETERMINE AND ORDER as follows:

Section 1. The revenues which have been collected from connection fees and have been deposited in the capital funds of the Improvement Districts, to the extent not previously or hereafter committed or appropriated to pay reimbursement, bonding and other financing or fund-management related costs for capital facilities, are hereby appropriated to pay costs of the projects shown in the Capital Budget.

Section 2. That relative to appropriations subject to limitation under Article XIII B of the Constitution of the State of California, it is hereby determined that IRWD's Capital Budget for Fiscal Year 2016-17 is to be funded totally by revenues other than the proceeds of

taxes, and/or that the expenditures identified in such Capital Budget are for qualified capital outlay projects, and that the documentation used in making such determination has been on file in the offices of IRWD for not less than 15 days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California.

Section 3. Subject in all respects to prior pledges for debt service requirements, including those contained in Resolution No. 2002-10, the Treasurer is hereby authorized and directed to allocate to the Replacement Fund, 28% of the general 1% ad valorem property tax revenues for the 2016-17 fiscal year, to be expended for qualified capital outlay projects.

Section 4. That IRWD's Capital Budget for Fiscal Year 2016-17 is in compliance with the provisions of Article XIII B of the Constitution of the State of California.

Section 5. That IRWD's Capital Budget for Fiscal Year 2016-17, shown in the attached Exhibit "A" and by this reference incorporated herein, be and the same is hereby approved.

Section 6. That the capital expenditures for projects set forth in the attached Exhibit "A" identified with "Yes" in the Flag column are "flagged" for further review by the Board of Directors prior to implementation, pursuant to the Policy Regarding Authorization of Expenditures.

ADOPTED, SIGNED and APPROVED this 25th day of April, 2016.

President, IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

Secretary, IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:
BOWIE, ARNESON, WILES & GIANNONE
Legal Counsel - IRWD

By _____

April 25, 2016
Prepared and
Submitted by: L. Bonkowski
Approved by: P. Cook



CONSENT CALENDAR

MINUTES OF BOARD MEETING

SUMMARY:

Provided are the minutes of the April 11, 2016 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE APRIL 11, 2016 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – April 11, 2016 Minutes

EXHIBIT "A"

MINUTES OF REGULAR MEETING – APRIL 11, 2016

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on April 11, 2016 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, Matheis and Withers.

Directors Absent: Swan and LaMar.

Also Present: General Manager Cook, Executive Director of Engineering and Water Quality Burton, Executive Director of Finance and Administration Clary, Executive Director of Water Policy Weghorst, Executive Director of Operations Shields, Director of Treasury and Risk Management Jacobson, Director of Water Resources Sanchez, Director of Public Affairs Beeman, Assistant Director of Water Operations Roberts, Assistant Director of Recycling Operations Zepeda, Director of Administrative Services Mossbarger, Legal Counsel Arneson, Secretary Bonkowski, Government Relations Officer Compton, Purchasing Manager Aguilar, Principle Engineer Akiyoshi, Mr. Barkev Meserlian, Ms. Kelly Welch, Mr. Joe Constantino, Mr. Norris Brandt, Ms. Amy Omae, Mr. Scott Lynch, Ms. Gitty Momtahn, Mr. Jim Reed, Mr. Bruce Newell, and other members of the public and staff.

WRITTEN COMMUNICATIONS: None.

ORAL COMMUNICATIONS: Ms. Gitty Momtahn, a resident of Lake Forest, reported on the substantial increase in her water bills over the last four months, and did not understand its cause. In response to her concerns, Director of Water Resources Sanchez was asked to work with this customer.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED: None.

WORKSHOPS

FISCAL YEAR 2016-17 OPERATING BUDGET AND PROPOSED RATES AND CHARGES

Executive Director of Finance Clary reported that the proposed Fiscal Year (FY) 2016-17 Operating Budget for Irvine Ranch Water District is \$146.9 million (M), representing an increase of \$6.6 M, or 4.7%, when compared with the Operating Budget for FY 2015-16. Ms. Clary said that the proposed FY 2016-17 budget assumes that the IRWD Biosolids project will begin operations in June 2017. The budget also assumes that the Baker Water Treatment Plant (BWTP) will come on line in October 2016. The budget reflects the full cost of operating the plant in the individual line items, with the reimbursement to IRWD for 76% of the operating expenses by the BWTP partners.

Using a PowerPoint presentation, Mr. Christopher Smithson provided an overview of the proposed operating budget. Mr. Smithson said that the proposed increase over last year's

Using a PowerPoint presentation, Mr. Christopher Smithson provided an overview of the proposed operating budget. Mr. Smithson said that the proposed increase over last year's budget is driven primarily due to: 1) increase in labor costs associated with new positions to support new or planned operating facilities as well as labor rate increases (\$4.4M); 2) increase in employee benefits associated with labor and rate increases in health insurance and Public Employee Retirement System contributions (\$1.7M); 3) increase in the cost of water primarily due to anticipated rate increases from outside agencies (\$1.3); 4) decrease in electricity due to a pass-through rate deduction and shifts in well production partially offset by operating facilities coming on line (BWTP and Biosolids facility) \$(<\$1.6M>); 5) higher electrical costs associated with the BWTP (\$1.1M); 6) higher permits, licenses and fess associated with the BWTP and property taxes for water banking properties (\$0.3M); 7) higher operating and maintenance expenses associated with additional facilities coming on line and increased maintenance associated with aging infrastructure; 8) increase in data processing costs associated with the Oracle unlimited license (\$0.4); 9) increase in professional fees and programs primarily associated with conservation programs (\$1.4); 10) higher conservation rebates associated with higher reimbursable expenditures and tactical measure programs (\$1.3M); 10) expended reimbursement from BWTP Partners (<\$3.4M>); and 11) all others less than \$0.3M individually (\$0.8M). He further reviewed the key budget assumptions, funding sources and uses, proposed rates, pumping surcharges, rate comparisons and history, non-operating sources and uses, and budget strategy. Following discussion, Mr. Smithson said that the second budget workshop will be held on April 25, 2016. President Matheis thanked staff for their efforts.

DRAFT FISCAL YEAR 2016-17 CAPITAL BUDGET

Mr. Barkev Meserlian provided a forecast of the capital expenditures for the upcoming fiscal year which are estimated at \$159.6 million. Mr. Meserlian said that three projects: 1) the MWRP Biosolids and Energy Recovery Facilities; 2) Orange County Sanitation District's Capital Outlay Revolving Fund, Equity, and Solids Facilities; and 3) the Irvine Lake Pipeline North Conversion project will make up approximately 50% of projected expenditures. Mr. Meserlian said that the top 10 projects groups totaling \$129.3 M include: 1) MWRP Biosolids and Energy Recovery Facilities (\$45.6M); 2) Orange County Sanitation District/Capital Outlay Revolving Fund/Solids Facilities (\$18.2M); 3) Irvine Lake Pipeline North Conversion (\$14.6M); 4) Water Banking and Dry-Year Programs (\$11.5M); 5) Baker Water Treatment Plant (\$10.4M); 6) Planning Area 52 (Great Park Neighborhoods)(\$9.0M); 7) General Plant (\$5.6M); 8) Annual Operational System Repair and Rehabilitation (\$5.0M); 9) Business Software (\$4.8); and 10) Asset Optimization (\$4.6M). He further said that the final budget will be presented to the Board on April 25, 2016.

CONSENT CALENDAR

On MOTION by Withers, seconded and unanimously carried, CONSENT CALENDAR ITEMS 5 – 9 WERE APPROVED AS FOLLOWS:

5. RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

Recommendation: That the Board ratify/approve the meetings and events for Steven LaMar, Mary Aileen Matheis, Douglas Reinhart, and John Withers as described.

CONSENT CALENDAR (Continued)

6. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the March 28, 2016 Regular Board meeting be approved as presented.

7. 2016 LEGISLATIVE UPDATE

Recommendation: That Board adopt a "SUPPORT" position on AB 2488 (Dababneh); an "OPPOSE" position on AB 2583 (Frazier); an "OPPOSE" position on SB 885 (Wolk); a "SEEK AMENDMENTS" position on SB 814 (Hill); a "SUPPORT" position on SB 974; an "OPPOSE UNLESS AMENDED" position on SB 1317 (Wolk); and a "SUPPORT IN CONCEPT" position U.S. Army Corps of Engineers and Bureau of Reclamation Atmospheric River Research and Reservoir Operations Funding.

8. SECOND AMENDED WATER SUPPLY ASSESSMENT FOR SANTIAGO HILLS II AND VERIFICATION FOR TRACTS 16199 AND 17995

Recommendation: That the Board approve the Second Amended Water Supply Assessment for the Santiago Hills II project and the Verification of Sufficient Water Supply for Tracts 16199 and 17995.

9. TRAVEL AUTHORIZATION TO ATTEND CONFERENCE

Recommendation: That the Board authorize Executive Director of Finance Clary to attend the Government Finance Officers Association of the United States and Canada's 110th Annual Conference in Toronto, Ontario.

ACTION CALENDAR

ANNUAL ORACLE SOFTWARE MAINTENANCE AND SUPPORT AGREEMENT RENEWAL

General Manager Cook reported that the Oracle Software Maintenance and Support Agreements, which expire in May 2016, provide for upgrades and maintenance of the District's Oracle Customer Care and Billing (CC&B) software, Oracle eBusiness Suite (EBS) Financial software, and Oracle Technology software. Mr. Cook said that these agreements provide pricing for software maintenance and licenses contained in the Unlimited License Agreement (ULA) executed with Oracle in May 2014 as well as the EBS Financial Software Agreement executed with Oracle in May 2010.

Director Matheis reported that this item was reviewed and approved by the Finance and Personnel Committee on April 5, 2016. On MOTION by Matheis, seconded and unanimously carried, THE BOARD AUTHORIZED STAFF TO RENEW THE ANNUAL ORACLE SOFTWARE MAINTENANCE AND SUPPORT AGREEMENTS, AND ADDITIONAL LICENSES AND SUPPORT, IN THE AMOUNT OF \$919,711 EFFECTIVE ON MAY 30, 2016 (ULA) AND ON MAY 22, 2016 (EBS).

DISCOVERY SCIENCE FOUNDATION EDUCATION PROGRAM

General Manager Cook reported that the District has successfully partnered with Discovery Science Foundation (DSF) to create and implement water education outreach programs for schools throughout IRWD's service area.

Public Relations Manager Matt Veeh said that over the course of the nine-year partnership, the elementary school assembly program, the middle school water quality and field trip program and additional education outreach efforts have instructed approximately 81,740 students on the importance of water to Southern California, conservation and the environment. He said that beginning in FY 2016-2017, staff proposes that DSF administer a new high school pilot water education program that is specifically designed for IRWD's service area high schools. The pilot program for high school teachers was developed after extensive discussions with local teachers. It will focus on natural scarcity, sources and usage of water in Orange County and will include interactive lessons associated with water use efficiency, groundwater, recycled water, urban runoff and droughts.

Director Withers reported that this item was reviewed by the Water Resources Policy and Communications Committee on April 6, 2016. He suggested that staff evaluate the savings in IRWD's time versus the savings by partnering with DSF. On MOTION by Withers, seconded and unanimously carried, **THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH DISCOVERY SCIENCE FOUNDATION IN THE AMOUNT OF \$531,555 FOR THE THREE-YEAR PERIOD COVERING FY 2016-2017, FY 2017-2018 AND FY 2018-2019, FOR THE ELEMENTARY, MIDDLE AND HIGH SCHOOL EDUCATION PROGRAMS.**

WATER SUPPLY RELIABILITY STUDY VARIANCE NO. 2

General Manager Cook reported that that HDR Engineering, Inc. was retained by the District to update its 2008 Water Supply Reliability Study which will include an evaluation of impacts from various supply and system interruption scenarios as well as development of enhanced modeling tools. He said that Variance No. 1 was approved last year to incorporate new information available from the California Department of Water Resources and to consider additional future water supply projects that may be implemented by Metropolitan Water District (MWD).

Director of Water Policy Sanchez reported that Variance No. 2 will provide additional project management associated with modifications to IRWD's Reliability Study Model and study report necessitated by new information from DWR and Metropolitan's proposed projects. She said that at staff's request, HDR will conduct several iterations of IRWD's Reliability Study Model in response to multiple revisions that have occurred to results from the Orange County Reliability Study. Each revision requires significant time to obtain and reformat data to align with the baseline scenario in IRWD's Reliability Study Model. The revisions are based on updates to information available from the preparation of Metropolitan's Integrated Resources Plan. Ms. Sanchez said that HDR will incorporate IRWD's water banking project into the

Reliability Study Model as a supply source, rather than as a response strategy, and will incorporate the Delta Fix into a secondary baseline using Metropolitan's assumptions for regulatory relief prior to the completion of the Delta Fix. She said that incorporation of MWD's future potential water supply projects into IRWD's Reliability Study Model will be included as part of this task along with identification and evaluation of regional and local response strategies. She further said that HDR is including additional supply and demand nodes to the model which increases its complexity. These changes require additional quality control, meetings with staff and revisions to the baseline model runs.

Director Withers said that this item was reviewed and approved by the Water Resources Policy and Communications Committee on April 6, 2016. On MOTION by Withers, seconded and unanimously carried, **THE BOARD AUTHORIZED A BUDGET INCREASE TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$95,400 FOR PROJECT 11808 (6013) AND APPROVED VARIANCE NO. 2 WITH HDR ENGINEERING, INC. IN THE AMOUNT OF \$171,500.**

IRWD PARTICIPATION IN THE SANTA ANA-DELHI CHANNEL DIVERSION PROJECT

General Manager Cook reported that the proposed Santa Ana-Delhi Channel Diversion Project will capture and divert low-flow urban runoff into the local sewer system to address surface water quality issues. Mr. Cook said that flows will be diverted to the Orange County Sanitation District (OCS D) sewer collection system for treatment at Plant 1 in Fountain Valley prior to use as a source of water for the Groundwater Replenishment System (GWR S). The IRWD discharges are free of pollutants but can assist in the mobilization of pollutants and trash discharged into the storm water channel from other sources. He said that staff has conducted an analysis of the affect that IRWD's well discharges have on the design and operation of the proposed project. The results of the analysis indicate that IRWD's well startup flows make up 4.3% of the design capacity of the diversion project.

Executive Director of Water Resources Weghorst said that IRWD's financial participation in the project will avoid potential future restrictions or fees being imposed by Orange County Public Works (OCPW) on flow rates and velocities associated with IRWD well discharges into the Santa Ana-Delhi Channel. Such restrictions or fees could be imposed to mitigate the mobilization of pollutants and trash in the channel or to pay for the proposed diversion project. IRWD's participation will ensure the ability to continue discharges without such restrictions and fees. IRWD will also receive pollutant offset credits for its participation in the project for the first 20 years of the project's operation. Any credits received would be valuable in developing trade arrangements.

Mr. Weghorst said that the Santa Ana-Delhi Channel Diversion Project Agreement that has been drafted by the cities and OCPW and a revised version of the agreement: 1) recognizes the affect that IRWD discharges have on the design of the project; 2) makes IRWD's financial contribution to the design and construction of the project subject to successful expiration of the challenge period related to environmental documentation adopted for the project; 3) establishes IRWD's right to continue well discharges into the channel under the same terms and conditions of existing permits; and 4) specifies that IRWD will not contribute to the operations and

maintenance of the project. He further said that the Santa Ana-Delhi Channel Diversion Project is subject to CEQA and in conformance with California Code of Regulations Title 14.

Director Reinhart said that this item was reviewed and approved by the Engineering and Operations Committee on February 16, 2016. On MOTION by Reinhart, seconded and unanimously carried, THE BOARD APPROVED THE ADDITION OF PROJECT 11945 (7024) TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$210,000 AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE THE SANTA ANA-DELHI CHANNEL DIVERSION PROJECT AGREEMENT COMMITTING IRWD TO A \$195,000 CONTRIBUTION TO THE DESIGN AND CONSTRUCTION OF THE PROJECT SUBJECT TO NON-SUBSTANTIVE CHANGES.

GENERAL MANAGER'S REPORT

General Manager Cook reported on last week's attendance at a WateReuse national conference.

Mr. Cook said that he received notification this afternoon that Mr. Charley Wilson has been reelected to the LAFCO Commission and ran unopposed for the four-year seat.

DIRECTORS' COMMENTS

Director Withers reported on his attendance at OCSD meetings and noted an upcoming LAFCO hearing this week.

Director Reinhart reported his attendance at a WACO meeting.

Director Matheis reported that she attended a WACO meeting and a Shadetree Board meeting last week.

Consultant Jim Reed reported on meetings he attended on behalf of the District. Consultant Bruce Newell reported that he attended an inter-canyon meeting on behalf of the District.

CLOSED SESSION

President Matheis said that the following Closed Session would be held:

Conference with Real Property Negotiator relative to Government
Code Section 54956.8

Property: OCSD Service Area 7 Sewer Infrastructure

Agency Negotiator: Paul Cook, General Manager

Purpose of Negotiations: Proposed Acquisition of Property – Price and Terms

OPEN SESSION

Following the Closed Session, the meeting was reconvened with Reinhart, Withers, and Matheis present. President Matheis said that there was no action to report.

ADJOURNMENT

President Matheis adjourned the meeting at 7:10 p.m.

APPROVED and SIGNED this 25th day of April, 2016.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Legal Counsel - Bowie, Arneson, Wiles & Giannone

April 25, 2016

Prepared and

Submitted by: N. Savedra

Approved by: P. Cook



CONSENT CALENDAR

RATIFY/APPROVE BOARD OF DIRECTORS' ATTENDANCE AT MEETINGS AND EVENTS

SUMMARY:

Pursuant to Resolution 2006-29 adopted on August 28, 2006, approval of attendance of the following events and meetings are required by the Board of Directors.

Events/Meetings

Steven LaMar

4/07/16 Calif. Environmental Dialogue Long View Committee Meeting, San Francisco
4/22/16 Southern California Water Committee Quarterly Meeting
4/27/16 NCC Executive Committee Meeting
5/3-6/16 ACWA Spring Conference, Monterey, CA

Mary Aileen Matheis

4/18/16 Monthly Discussion of District Activities with the General Manager
4/20/16 OCWD Board Meeting
4/20/16 WEF Marketing & Membership Committee Meeting via teleconfering
4/28/16 OC Coastal Coalition Meeting
5/2-6/16 ACWA Spring Conference, Monterey, CA

Douglas Reinhart

4/18/16 Monthly Discussion of District Activities with the General Manager
4/29/16 IRWD Resident Tour
5/3-6/16 ACWA Spring Conference, Monterey, CA

Peer Swan

4/27/16 Southern California Water Dialogue Meeting
4/28/16 OC Coastal Coalition Meeting
4/30/16 IRWD Resident Tour
5/2-6/16 ACWA Spring Conference, Monterey, CA

John Withers

4/20/16 OCWA Luncheon Meeting
5/3-5/16 ACWA Spring Conference, Monterey, CA

RECOMMENDATION:

THAT THE BOARD RATIFY/APPROVE THE MEETINGS AND EVENTS FOR STEVEN LAMAR, MARY AILEEN MATHEIS, DOUGLAS REINHART, PEER SWAN, AND JOHN WITHERS AS DESCRIBED.

LIST OF EXHIBITS:

None

April 25, 2016

Prepared by: T. Bertsch / C. Smithson

Submitted by: Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

SUMMARY:

Provided as Exhibit "A" are the IRWD Strategic Measures and informational items for the Board's review. These measures are intended to reflect the critical performance measures that gauge the District's key business objectives.

BACKGROUND:

The proposed strategic measures document summarizes a number of operating performance, financial, customer and other key measures important to the ongoing operation of the District. These measures were selected and designed to provide a "snapshot" view of the measures that would be of interest to the Board.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE REPORT.

LIST OF EXHIBITS:

Exhibit "A" – March 2016 Strategic Measures

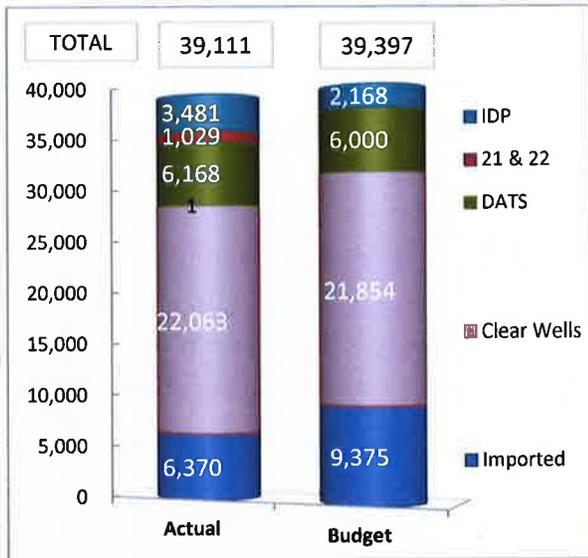
IRVINE RANCH WATER DISTRICT

EXHIBIT "A"

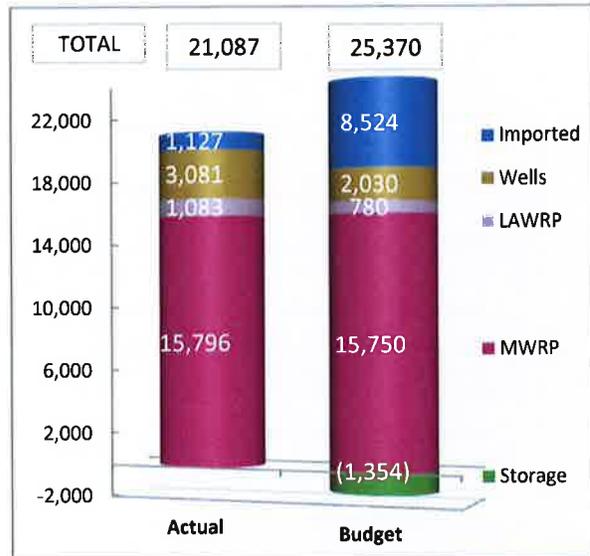
Operational Performance Measures

Data as of March 31, 2016

Potable Water Production FYTD (AF)

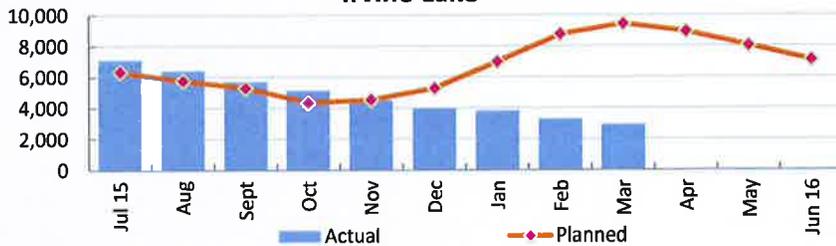


Non-Potable Water Production FYTD (AF)

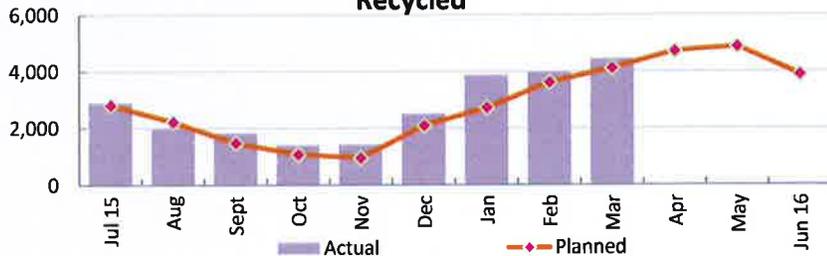


Non-Potable Reservoir Storage (AF)

Irvine Lake

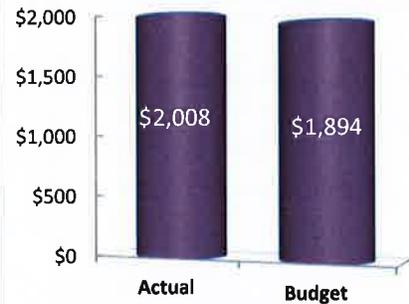


Recycled

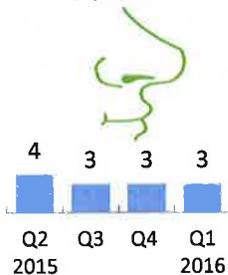


Cost Per MG At MWRP FYTD

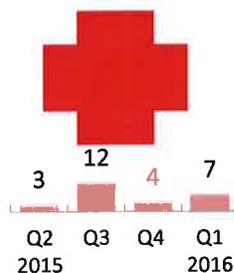
Cost per MG to Produce Recycled Water



Odor Complaints (by quarter)



OSHA Recordables Incidents



Regulatory Compliance Incidents

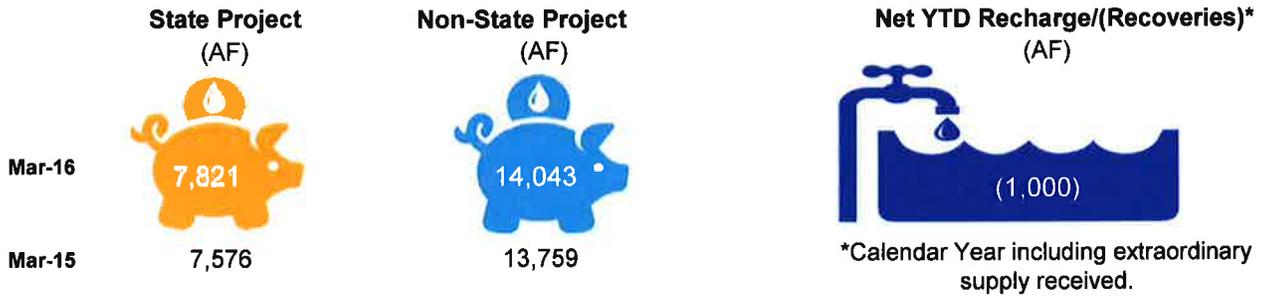
Category	Q2 2015	Q3 2015	Q4 2015	Q1 2016
AQMD	0	0	0	0
Plants	0	3	0	0
Sewer Spills	1	1	0	0

IRVINE RANCH WATER DISTRICT

Other Statistical Information

Data as of March 31, 2016

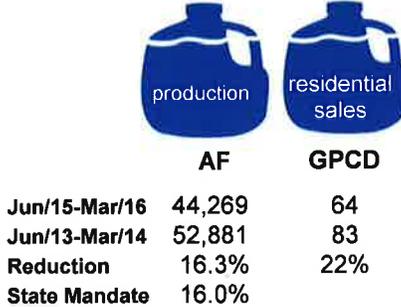
Banked Water



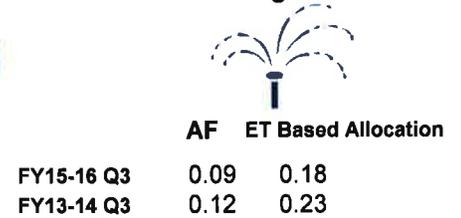
Certificates of Occupancies FYTD



Total Potable Water

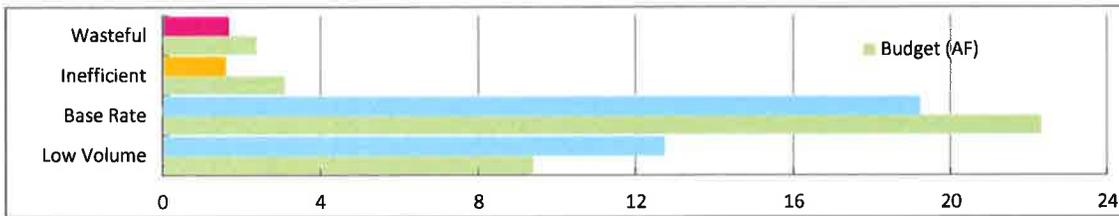


Acre-Feet Per Acre Irrigation

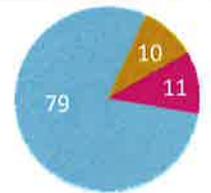


Potable Sales by Tier FYTD

(in thousands)

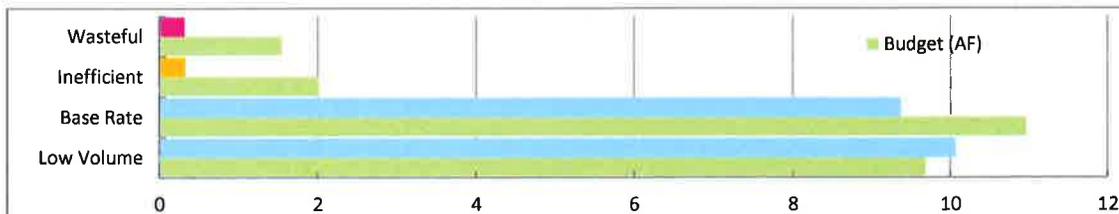


% of Customers by Tier

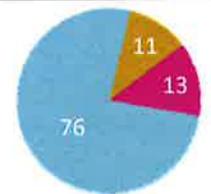


Non-Potable Sales by Tier FYTD

(in thousands)

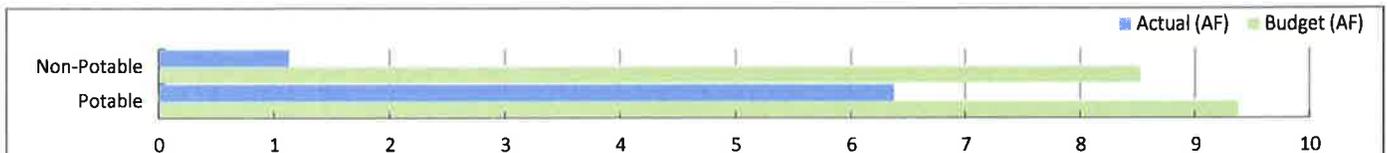


% of Customers by Tier



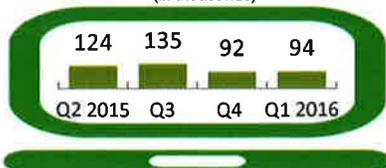
Imported Water FYTD

(in thousands)



Website Hits

(in thousands)



Customer Satisfaction Index**



** 12 month rolling average

April 25, 2016

Prepared by: Jennifer Davis/Tanja Fournier

Submitted by: Robert Jacobson/Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

MARCH 2016 TREASURY REPORTS

SUMMARY:

The following is submitted for the Board's information and approval:

- A. The Investment Summary Report for March 2016. This Investment Summary Report is in conformity with the 2016 Investment Policy and provides sufficient liquidity to meet estimated expenditures during the next six months, as outlined in Exhibit "A".
- B. The Monthly Interest Rate Swap Summary as of March 31, 2016, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,556,287, as outlined in Exhibit "C".
- D. The March 31, 2016 Disbursement Summary of warrants 365608 through 366465, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$27,855,901 as outlined in Exhibit "D".
- E. The Disclosure Report of Reimbursements to Board Members and Staff for March 2016, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of March 31, 2016, the book value of the investment portfolio was \$233,028,189, with a 0.70% rate of return and a market value of \$233,093,912. Based on the District's March 31, 2016 quarterly real estate investment rate of return of 13.63%, the weighted average return for the fixed income and real estate investments was 3.72%.

As of March 31, 2016, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in March from all swaps was negative \$638,562.

Payroll ACH payments totaled \$1,556,287, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for March totaled \$27,855,901.

ENVIRONMENTAL COMPLIANCE:

This item is not a project as defined in the California Environmental Quality Act Code of Regulations, Title 14, Chapter 3 Section 15378.

COMMITTEE STATUS:

This item was not submitted to a Committee; however, the investment and interest rate swap reports are submitted to the Finance and Personnel Committee on a monthly basis.

RECOMMENDATION:

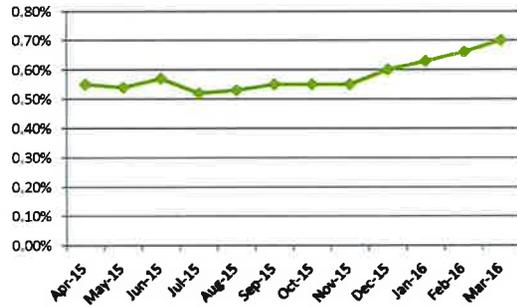
THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR MARCH 2016, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE MARCH 2016 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,556,287 AND APPROVE THE MARCH 2016 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 365608 THROUGH 366465, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$27,855,901.

LIST OF EXHIBITS:

- Exhibit "A" – Investment Summary Report
- Exhibit "B" – Monthly Interest Rate Swap Summary
- Exhibit "C" – Monthly Payroll ACH Summary
- Exhibit "D" – Monthly Summary of District Disbursements
- Exhibit "E" – Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"
Irvine Ranch Water District
Investment Portfolio Summary
March 2016

Monthly Fixed Income Yield



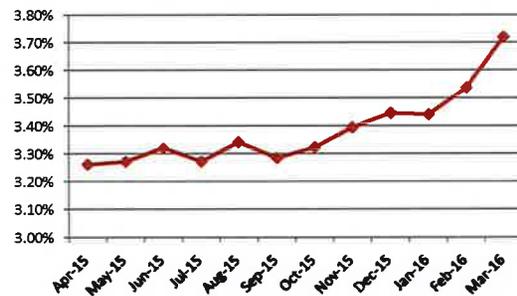
Portfolio Distribution



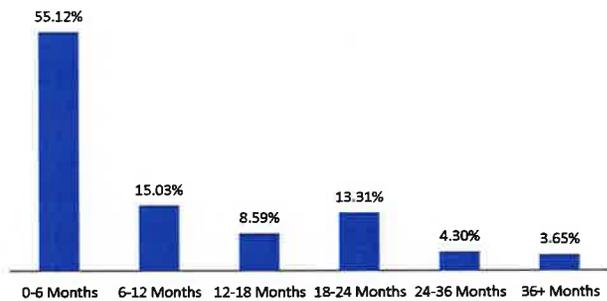
Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	154,000,000	154,208,646	154,261,990
LAIF	56,000,000	56,000,000	56,012,379
Collateral Deposit	14,322,968	14,322,968	14,322,968
Direct Muni	8,496,575	8,496,575	8,496,575
Grand Total	232,819,543	233,028,189	233,093,912

Weighted Average Return Including Real Estate Portfolio



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Mortgage Corp	61,000,000	26.20%
Fed Home Loan Bank	58,000,000	24.91%
State of California Treasury - LAIF	56,000,000	24.05%
Fed Natl Mortgage Assoc	20,000,000	8.59%
Fed Farm Credit Bank	10,000,000	4.30%
Citi-Group Collateral	9,422,968	4.05%
ETWD	8,496,575	3.65%
Fed Ag Mortgage Corp	5,000,000	2.15%
Merrill Lynch Collateral	4,900,000	2.10%

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

03/31/16

SETTLMT *	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	YTFC	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 3/31/2016	UNREALIZED ⁽²⁾ GAIN/(LOSS)
02/23/16			04/01/16		LAIF	State of California Tsy.	\$56,000,000		0.510%		\$56,000,000.00	\$56,000,000.00	56,012,379.36	12,379.36
10/16/15	N/A	N/A	04/07/16	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.220%	0.220%		5,000,000.00	5,000,000.00	5,000,050.00	50.00
05/20/15	N/A	N/A	05/04/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	3,000,000	0.300%	0.315%		2,999,565.00	2,999,958.99	3,000,420.00	461.01
10/14/15	N/A	N/A	05/13/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.500%	0.238%		5,007,600.00	5,001,505.66	5,000,850.00	(655.66)
05/20/15	N/A	N/A	05/18/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.250%	0.305%		4,997,285.00	4,999,649.44	5,000,250.00	600.56
05/20/15	N/A	N/A	05/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.500%	0.304%		5,111,650.00	5,016,762.47	5,017,000.00	237.53
06/04/15	N/A	N/A	06/20/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.340%	0.355%		4,999,200.00	4,999,832.46	5,000,350.00	517.54
07/01/15	N/A	N/A	06/24/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.375%	0.345%		5,001,450.00	5,000,339.28	4,999,950.00	(389.28)
11/20/14	N/A	N/A	06/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.375%	0.424%		4,996,091.65	4,999,418.76	5,001,700.00	2,281.24
01/11/16	N/A	N/A	06/30/16	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.500%	0.500%		5,000,000.00	5,000,000.00	5,002,550.00	2,550.00
05/08/14	N/A	N/A	07/05/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.375%	0.484%		4,988,300.00	4,998,591.25	4,998,700.00	108.75
06/09/15	N/A	N/A	08/25/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	2.000%	0.467%		10,184,900.00	10,060,937.70	10,059,300.00	(1,637.70)
10/19/15	N/A	N/A	09/28/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.250%	0.342%		10,085,280.00	10,044,845.52	10,035,600.00	(9,245.52)
06/15/15	N/A	N/A	10/13/16	NR	FAMCA - Note	Fed Ag Mortgage Corp	5,000,000	0.970%	0.578%		5,025,900.00	5,010,391.98	5,018,600.00	8,208.02
11/28/14	Quarterly	05/15/15	11/15/16	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.600%	0.600%	0.600%	5,000,000.00	5,000,000.00	5,002,900.00	2,900.00
09/21/15	N/A	N/A	12/09/16	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.532%		5,066,150.00	5,037,460.22	5,034,300.00	(3,160.22)
10/08/15	N/A	N/A	01/30/17	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	0.492%		5,049,445.00	5,031,315.17	5,023,450.00	(7,865.17)
09/21/15	N/A	N/A	02/22/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	0.570%		5,021,500.00	5,013,520.19	5,009,750.00	(3,770.19)
06/15/15	N/A	N/A	03/30/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.727%		4,990,950.00	4,994,976.83	5,003,050.00	8,073.17
08/27/15	N/A	N/A	05/30/17	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.642%		4,998,500.00	4,999,009.35	4,996,850.00	(2,159.35)
11/05/15	N/A	N/A	08/28/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.750%	0.800%		4,995,500.00	4,996,506.04	5,002,200.00	5,693.96
09/16/15	N/A	N/A	09/15/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.900%	0.915%	0.960%	4,998,500.00	4,998,906.85	5,014,700.00	15,793.15
09/29/15	Continues after	03/28/16	09/28/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.810%	0.815%		4,999,500.00	4,999,626.71	4,992,050.00	(7,576.71)
07/29/15	Continues after	01/16/13	10/16/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	0.997%		5,000,000.00	5,000,000.00	5,000,100.00	100.00
12/18/15	Continues after	12/13/13	12/12/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.820%	1.132%		4,969,500.00	4,973,917.24	4,996,550.00	22,632.76
12/18/15	Quarterly	03/18/16	12/18/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	6,000,000	1.125%	1.138%		5,998,500.00	5,998,714.58	6,004,620.00	5,905.42
03/01/16	Quarterly	05/26/16	02/26/18	NR/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.050%		5,000,000.00	5,000,000.00	5,000,150.00	150.00
03/16/16	Quarterly	06/16/16	03/16/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.125%	1.145%	1.128%	4,998,000.00	4,998,043.84	5,004,100.00	6,056.16
03/23/16	N/A	N/A	03/23/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.100%	0.908%		5,019,000.00	5,018,765.75	5,029,050.00	10,284.25
03/03/16	One Time	07/27/16	04/27/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.250%	1.096%	0.436%	5,016,250.00	5,015,649.68	5,012,850.00	(2,799.68)
05/30/15	N/A	N/A	04/30/36	NR	Direct Muni	ETWD	8,496,575	4.570%	4.570%	4.570%	8,496,574.67	8,496,574.67	8,496,574.67	
SUB-TOTAL							\$218,496,575				\$219,015,091.32	\$218,705,220.62	\$218,770,944.03	\$65,723.41
RESTRICTED CASH (Swap Collateral Deposits)⁽³⁾														
03/01/16					Collateral Deposit	Citi-Group	\$9,422,968		0.370%		\$9,422,968.37	\$9,422,968.37	9,422,968.37	
02/28/16					Collateral Deposit	Merrill Lynch	\$4,900,000		0.370%		\$4,900,000.00	\$4,900,000.00	4,900,000.00	
SUB-TOTAL							\$14,322,968				\$14,322,968.37	\$14,322,968.37	\$14,322,968.37	
TOTAL INVESTMENTS							\$232,819,543				\$233,338,059.69	\$233,028,188.99	\$233,093,912.40	
					Petty Cash						3,400.00			
				March	Ck Balance	Bank of America					3,676,630.02			
											\$237,018,089.71			

⁽¹⁾ LAIF market value is as of the most recent quarter-end as reported by LAIF.
Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.

⁽²⁾ Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers

⁽³⁾ Real estate rate of return is based on most recent quarter end return

⁽⁴⁾ Calculation excludes Direct Muni - ETWD

⁽⁵⁾ Swap Collateral Deposits assumes 6 month maturity, dependent on interest rate changes

This Investment Summary Report is in conformity with the 2016 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.

*S - Step up

Outstanding Variable Rate Debt	\$317,700,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$187,700,000
Investment Balance:	\$237,018,090
Investment to Variable Rate Debt Ratio:	126%
Portfolio - Average Number of Days To Maturity ⁽⁴⁾	224

	Investment Portfolio	Real Estate ⁽³⁾ Portfolio	Weighted Avg. Return
March	0.70%	13.63%	3.72%
February	0.66%	12.92%	3.54%
Change	0.04%		

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

03/31/16

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	Direct Muni
03/16	\$56,000,000	24.05%	\$56,000,000				
04/16	5,000,000	2.15%		5,000,000			
05/16	18,000,000	7.73%		18,000,000			
06/16	20,000,000	8.59%		20,000,000			
07/16	5,000,000	2.15%		5,000,000			
08/16	24,322,968	10.45%		10,000,000		\$14,322,968	
09/16	10,000,000	4.30%		10,000,000			
10/16	5,000,000	2.15%		5,000,000			
11/16	5,000,000	2.15%		5,000,000			
12/16	5,000,000	2.15%		5,000,000			
01/17	5,000,000	2.15%		5,000,000			
02/17	5,000,000	2.15%		5,000,000			
SUB-TOTAL	\$163,322,968	70.15%	\$56,000,000	\$93,000,000		\$14,322,968	
13 Months - 3 YEARS							
03/01/17-06/30/17	10,000,000	4.30%		10,000,000			
07/01/17 - 9/30/2017	15,000,000	6.44%		15,000,000			
10/30/17 - 12/31/2017	16,000,000	6.87%		16,000,000			
01/01/2018-03/31/2018	15,000,000	6.44%		15,000,000			
04/01/18-06/30/2018	5,000,000	2.15%		5,000,000			
	-						
04/30/2036	8,496,575	3.65%					8,496,575
TOTALS	\$232,819,543	100.00%	\$56,000,000	\$154,000,000		\$14,322,968	\$8,496,575

% OF PORTFOLIO

24.05%

66.15%

6.15%

3.65%

Irvine Ranch Water District
 Summary of Real Estate
 3/31/2016

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Mar-16</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	17.84%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.58%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	7.77%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	5.11%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	8.28%
				<u>\$ 72,569,826</u>	<u>13.63%</u>

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
March 2016

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
3/16/2016	FHLB - Discount Note	\$8,000,000	0.20%	3/1/2016	2/26/2018	FHLMC - Note	\$5,000,000	1.05%
				3/3/2016	4/27/2018	FHLB - Note	\$5,000,000	1.10%
				3/16/2016	3/16/2018	FHLMC - Note	\$5,000,000	1.15%
				3/23/2016	3/23/2018	FHLMC - Note	\$5,000,000	1.10%

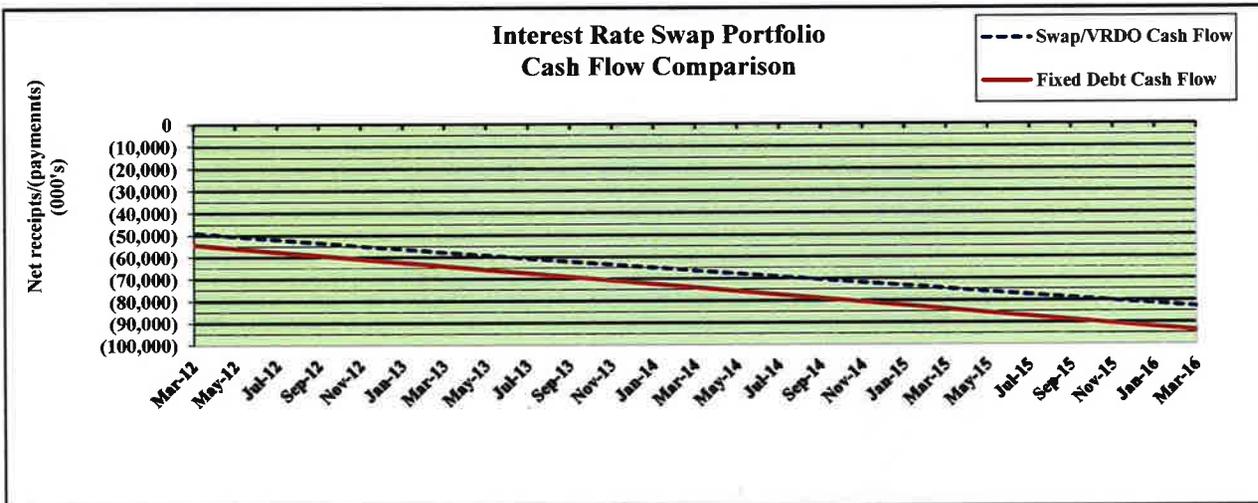
IRVINE RANCH WATER DISTRICT
 INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
 March 31, 2016

LIBOR Avg %	Prior Mo. 0.43%	Current Mo. 0.43%	12-Mo Avg 0.27%
-------------	--------------------	----------------------	--------------------

Current Fiscal Year Active Swaps								Cash Flow				Mark to Market		
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	(Since 6/06)	Current Mark to Market	Notional Difference
Fixed Payer Swaps - By Effective Date														
6/4/2006	6/4/2019	3.2	ML	\$ 20,000,000	FXP	LIBOR	6.200%	(95,956)	(102,701)	\$ (891,309)	\$ (9,546,276)	\$	16,647,704	\$ (3,352,296)
6/4/2006	6/4/2019	3.2	CG	20,000,000	FXP	LIBOR	6.200%	(95,956)	(102,701)	(891,309)	(9,546,276)		16,642,652	(3,357,348)
6/17/2006	6/17/2019	3.2	CG	30,000,000	FXP	LIBOR	6.140%	(142,467)	(152,494)	(1,323,119)	(14,161,022)		24,968,349	(5,031,651)
3/10/2007	3/10/2029	13.0	ML	30,000,000	FXP	LIBOR	5.687%	(131,139)	(140,333)	(1,221,135)	(12,730,943)		16,058,207	(13,941,793)
3/10/2007	3/10/2029	13.0	CG	30,000,000	FXP	LIBOR	5.687%	(131,139)	(140,333)	(1,221,135)	(12,730,943)		16,005,273	(13,994,727)
Totals/Weighted Avgs				7.7	\$ 130,000,000		5.949%	\$ (596,657)	\$ (638,562)	\$ (5,548,007)	\$ (58,715,461)	\$	90,322,185	\$ (39,677,815)
Total Current Year Active Swaps					\$ 130,000,000			\$ (596,657)	\$ (638,562)	\$ (5,548,007)	\$ (58,715,461)	\$	90,322,185	\$ (39,677,815)

Current Fiscal Year Terminated Swaps								Cash Flow				Mark to Market		
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow		Current Mark to Market	Notional Difference
Total Current Year Terminated Swaps								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference								
\$ (596,657)	\$ (638,562)	\$ (5,548,007)	\$ (58,715,461)	\$ 90,322,185	\$ (39,677,815)								



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
	Cash Flow to Date
Synthetic Fixed =	\$82,869,572
Fixed Rate =	\$96,275,887
Assumptions:	
- Fixed rate debt issued at 5.10% in Jun-06, and 4.93% in Mar-07 (estimated TE rates - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

**March
2016**

	AMOUNT	VENDOR	PURPOSE
3/4/2016	772,454.64	BANK OF AMERICA	ACH Payments for Payroll
3/18/2016	783,832.38	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$1,556,287.02</u>		

Exhibit "D"

>

IRWD Ledger

Void Payment Register

Report Date: 01-APR-2016 15:46
Page: 1

Include Zero Amount Payments: Yes
Display Payee Address: No

Period From: 01-MAR-16

To: 31-MAR-16
Date: Void Date

Bank: Bank of America N.A.

Branch: Los Angeles

Account: Checking AP and PR

Bank Account Currency: USD

Payment Currency: USD (US Dollar)

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment Document: IRWD CHECK						
363432	03-DEC-15	CRIBBS, JEFF L	PAY		342.38	09-MAR-16
363441	03-DEC-15	DRAKE, KEVIN	PAY		340.98	28-MAR-16
363994	23-DEC-15	COLEMAN, JAMES	PAY		951.46	28-MAR-16
364024	23-DEC-15	L & S CONSTRUCTION INC	PAY		2,474.41	28-MAR-16
364150	30-DEC-15	SEDAGHAT, AZIZOLLAH	PAY		111.64	28-MAR-16
364534	21-JAN-16	Tettemer, John M (Mark)	HOME		36.00	02-MAR-16
365436	25-FEB-16	Martin, Colton S (Colton)	HOME		81.00	03-MAR-16
365462	25-FEB-16	BILINGUAL TRAINING INSTITUT	PURCHASE		3,820.00	01-MAR-16
365956	15-MAR-16	NORTHWOOD PLACE APTS	PAY		255.35	16-MAR-16

Payment Document Subtotal 8,413.22

Bank Account Subtotal 8,413.22

Report Count: 9

Report Total 8,413.22

Total Voids

*** End of Report ***

V

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 1
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365608		03-MAR-16	Murphy, Alexander J (Alexander)		645.00	07-MAR-16	645.00	Reconciled
365609		03-MAR-16	Compton, Christine A		111.19			Negotiable
365610		03-MAR-16	Bertsch, Frederick J (Jeff)		90.59	07-MAR-16	90.59	Reconciled
365611		03-MAR-16	Hamer, James B (James)		187.00	11-MAR-16	187.00	Reconciled
365612		03-MAR-16	La, Jason (Jason)		77.75	07-MAR-16	77.75	Reconciled
365613		03-MAR-16	Nash, Joel		64.80	10-MAR-16	64.80	Reconciled
365614		03-MAR-16	Oldewage, Lars D (Lars)		283.62	08-MAR-16	283.62	Reconciled
365615		03-MAR-16	ABC ICEHOUSE, INC.		150.96	07-MAR-16	150.96	Reconciled
365616		03-MAR-16	ADT SECURITY SERVICES INC		5.51	10-MAR-16	5.51	Reconciled
365617		03-MAR-16	ADVANCED ELECTRONICS INC		3,380.76	08-MAR-16	3,380.76	Reconciled
365618		03-MAR-16	AIRGAS, INC.		250.95	07-MAR-16	250.95	Reconciled
365619		03-MAR-16	ALLIED ELECTRONICS INC		111.98	10-MAR-16	111.98	Reconciled
365620		03-MAR-16	ALPHA TRAFFIC SERVICES, INC.		1,140.00	07-MAR-16	1,140.00	Reconciled
365621		03-MAR-16	ANTHONY N. LARSEN		400.00	09-MAR-16	400.00	Reconciled
365622		03-MAR-16	AQUA-METRIC SALES COMPANY		33,450.08	14-MAR-16	33,450.08	Reconciled
365623		03-MAR-16	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		32,413.88	10-MAR-16	32,413.88	Reconciled
365624		03-MAR-16	AT&T		50.84	08-MAR-16	50.84	Reconciled
365625		03-MAR-16	AT&T		290.99	08-MAR-16	290.99	Reconciled
365626		03-MAR-16	AUTOZONE PARTS, INC.		574.14	07-MAR-16	574.14	Reconciled
365627		03-MAR-16	AVISTA TECHNOLOGIES, INC		8,315.08	07-MAR-16	8,315.08	Reconciled
365628		03-MAR-16	BANK OF NEW YORK MELLON TRUST COMPANY NA		1,425.00	09-MAR-16	1,425.00	Reconciled
365629		03-MAR-16	BARNES, DARRYL E		15.58			Negotiable
365630		03-MAR-16	BILINGUAL TRAINING INSTITUTE - BTI		1,910.00	07-MAR-16	1,910.00	Reconciled
365631		03-MAR-16	BILL'S SWEEPING SERVICE INC		517.50	09-MAR-16	517.50	Reconciled
365632		03-MAR-16	BLAIRS TOWING INC		146.00	22-MAR-16	146.00	Reconciled
365633		03-MAR-16	BORCHARD SURVEYING & MAPPING, INC.		440.00	14-MAR-16	440.00	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 2
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365634		03-MAR-16	BOWIE, ARNESON, WILES & GIANNONE		30,834.72	16-MAR-16	30,834.72	Reconciled
365635		03-MAR-16	BRAINAEED, MICHAEL		267.33			Negotiable
365636		03-MAR-16	BRITHINEE ELECTRIC		8,157.47	07-MAR-16	8,157.47	Reconciled
365637		03-MAR-16	BUSH & ASSOCIATES INC		1,023.00			Negotiable
365638		03-MAR-16	C C MYERS INC		1,141.07			Negotiable
365639		03-MAR-16	C WELLS PIPELINE MATERIALS INC		26,732.72	10-MAR-16	26,732.72	Reconciled
365640		03-MAR-16	CABELA'S MARKETING AND BRAND MANAGEMENT INC		651.79	07-MAR-16	651.79	Reconciled
365641		03-MAR-16	CALIFORNIA BARRICADE INC		3,948.86	08-MAR-16	3,948.86	Reconciled
365642		03-MAR-16	CAPTIVE AUDIENCE MARKETING INC.		85.32	08-MAR-16	85.32	Reconciled
365643		03-MAR-16	CAROLLO ENGINEERS, INC		57,960.45	11-MAR-16	57,960.45	Reconciled
365644		03-MAR-16	CITY CIRCUIT BREAKERS		2,733.72	10-MAR-16	2,733.72	Reconciled
365645		03-MAR-16	CITY OF IRVINE		185.55	10-MAR-16	185.55	Reconciled
365646		03-MAR-16	CITY OF SANTA ANA		18,980.06	21-MAR-16	18,980.06	Reconciled
365647		03-MAR-16	CIVILSOURCE, INC.		17,003.00	11-MAR-16	17,003.00	Reconciled
365648		03-MAR-16	CLA-VAL COMPANY		10,869.76	08-MAR-16	10,869.76	Reconciled
365649		03-MAR-16	CLEARINGHOUSE		477.67	08-MAR-16	477.67	Reconciled
365650		03-MAR-16	COATING		19,152.00	14-MAR-16	19,152.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
365651	03-MAR-16		SPECIALISTS AND INSPECTION SERVICES, INC. COX COMMUNICATIONS, INC.		102.45	07-MAR-16	102.45	Reconciled
365652	03-MAR-16		COX, SARAH		217.69	07-MAR-16	217.69	Reconciled
365653	03-MAR-16		CREATIVE ALLIANCE GROUP LLC		500.00	14-MAR-16	500.00	Reconciled
365654	03-MAR-16		CUMMINS PACIFIC, LLC		144.73	07-MAR-16	144.73	Reconciled
365655	03-MAR-16		D & G SIGNS		9,487.80	08-MAR-16	9,487.80	Reconciled
365656	03-MAR-16		DATA CLEAN CORPORATION		830.00	08-MAR-16	830.00	Reconciled
365657	03-MAR-16		DAY, JEFF		1,127.41	07-MAR-16	1,127.41	Reconciled
365658	03-MAR-16		DIRECTV INC		113.55	10-MAR-16	113.55	Reconciled
365659	03-MAR-16		DMS FACILITY SERVICES, INC.		16,516.93	11-MAR-16	16,516.93	Reconciled
365660	03-MAR-16		DWYER INSTRUMENTS INC		121.16	07-MAR-16	121.16	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 3
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365661	03-MAR-16		E.J. MEYER COMPANY, INC.		36,160.15	09-MAR-16	36,160.15	Reconciled
365662	03-MAR-16		E.J. MEYER COMPANY, INC.		687,042.93	09-MAR-16	687,042.93	Reconciled
365663	03-MAR-16		EHS INTERNATIONAL, INC		3,307.50	07-MAR-16	3,307.50	Reconciled
365664	03-MAR-16		EI&C ENGINEERING INC		25,850.00	14-MAR-16	25,850.00	Reconciled
365665	03-MAR-16		ELITE EQUIPMENT, INC.		291.64	14-MAR-16	291.64	Reconciled
365666	03-MAR-16		ENDRESS AND HAUSER INC		669.48	07-MAR-16	669.48	Reconciled
365667	03-MAR-16		ENTERPRISE SECURITY, INC		185.00	07-MAR-16	185.00	Reconciled
365668	03-MAR-16		ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		22,877.50	09-MAR-16	22,877.50	Reconciled
365669	03-MAR-16		ENVIRONMENTAL EXPRESS INC		5,894.31	07-MAR-16	5,894.31	Reconciled
365670	03-MAR-16		ENVIRONMENTAL SCIENCE ASSOCIATES		3,628.17	08-MAR-16	3,628.17	Reconciled
365671	03-MAR-16		EVANS, MICHELLE		324.95	08-MAR-16	324.95	Reconciled
365672	03-MAR-16		EXECUTIVE LIGHTING & ELECTRIC		995.48	08-MAR-16	995.48	Reconciled
365673	03-MAR-16		FIDELITY SECURITY LIFE INSURANCE COMPANY		6,357.02	11-MAR-16	6,357.02	Reconciled
365674	03-MAR-16		FIRST CHOICE SERVICES		1,401.41	09-MAR-16	1,401.41	Reconciled
365675	03-MAR-16		FLUID CONSERVATION SYSTEMS INC		4,790.68	07-MAR-16	4,790.68	Reconciled
365676	03-MAR-16		FRANK LA PLACA EXTERMINATING, INC.		175.00	11-MAR-16	175.00	Reconciled
365677	03-MAR-16		FUSCOE ENGINEERING, INC.		1,826.00	08-MAR-16	1,826.00	Reconciled
365678	03-MAR-16		GE GRID SOLUTIONS, LLC		18,723.13	10-MAR-16	18,723.13	Reconciled
365679	03-MAR-16		GENERAL PUMP COMPANY INC		31,597.00	09-MAR-16	31,597.00	Reconciled
365680	03-MAR-16		GJ AUTOMOTIVE EQUIPMENT CO INC		5,000.00	11-MAR-16	5,000.00	Reconciled
365681	03-MAR-16		GOLDMAN, SACHS & CO		16,383.56	14-MAR-16	16,383.56	Reconciled
365682	03-MAR-16		GRAINGER		4,465.81	07-MAR-16	4,465.81	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 4
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365683	03-MAR-16		HAAKER EQUIPMENT COMPANY		5,538.28	08-MAR-16	5,538.28	Reconciled
365684	03-MAR-16		HACH COMPANY		19,343.03	10-MAR-16	19,343.03	Reconciled
365685	03-MAR-16		HARSCH INVESTMENT PROP LLC		2,647.55	09-MAR-16	2,647.55	Reconciled
365686	03-MAR-16		HELPMATES STAFFING SERVICES		15,862.48	08-MAR-16	15,862.48	Reconciled
365687	03-MAR-16		HERITAGE FIELDS EL		1,130,375.21	10-MAR-16	1,130,375.21	Reconciled

365688	03-MAR-16	TORO, LLC HILL BROTHERS CHEMICAL COMPANY	12,757.85	09-MAR-16	12,757.85	Reconciled
365689	03-MAR-16	HOME DEPOT USA INC	1,500.61	07-MAR-16	1,500.61	Reconciled
365690	03-MAR-16	HURRIA, KESHO	2,182.61	07-MAR-16	2,182.61	Reconciled
365691	03-MAR-16	INDUSTRIAL METAL SUPPLY CO	611.55	07-MAR-16	611.55	Reconciled
365692	03-MAR-16	INNERLINE ENGINEERING	1,631.25	10-MAR-16	1,631.25	Reconciled
365693	03-MAR-16	IRVINE PIPE & SUPPLY INC	1,764.04	07-MAR-16	1,764.04	Reconciled
365694	03-MAR-16	IRWD EMPLOYEE ASSOCIATION	800.00	04-MAR-16	800.00	Reconciled
365695	03-MAR-16	JOHNSON, JENNIFER	46.00	07-MAR-16	46.00	Reconciled
365696	03-MAR-16	KEC ENGINEERING	609.92	21-MAR-16	609.92	Reconciled
365697	03-MAR-16	KIMBALL MIDWEST	4,442.06	07-MAR-16	4,442.06	Reconciled
365698	03-MAR-16	KYOCEERA DOCUMENT SOLUTIONS	4,901.69	11-MAR-16	4,901.69	Reconciled
365699	03-MAR-16	LA HABRA FENCE COMPANY INC	628.00	09-MAR-16	628.00	Reconciled
365700	03-MAR-16	LANDCARE HOLDINGS, INC.	81,886.43	10-MAR-16	81,886.43	Reconciled
365701	03-MAR-16	LEWIS OPERATING CORP	3,225.00	07-MAR-16	3,225.00	Reconciled
365702	03-MAR-16	MARK ENTERPRISES, INC.	2,526.85	07-MAR-16	2,526.85	Reconciled
365703	03-MAR-16	MC FADDEN-DALE INDUSTRIAL	344.11	07-MAR-16	344.11	Reconciled
365704	03-MAR-16	MC MASTER CARR SUPPLY CO	276.17	07-MAR-16	276.17	Reconciled
365705	03-MAR-16	MCR TECHNOLOGIES INC	1,514.25	10-MAR-16	1,514.25	Reconciled
365706	03-MAR-16	MICROSURVEY SOFTWARE INC	585.00	23-MAR-16	585.00	Reconciled
365707	03-MAR-16	MISSION COMMUNICATIONS LLC	10,428.60	15-MAR-16	10,428.60	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 5
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365708		03-MAR-16	MOORE INDUSTRIES INTERNATIONAL, INC.		967.97	08-MAR-16	967.97	Reconciled
365709		03-MAR-16	MUNICIPAL MAINTENANCE EQUIPMENT INC		562.32	07-MAR-16	562.32	Reconciled
365710		03-MAR-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		36,129.33	08-MAR-16	36,129.33	Reconciled
365711		03-MAR-16	NATIONAL READY MIXED CONCRETE CO.		1,163.40	07-MAR-16	1,163.40	Reconciled
365712		03-MAR-16	NATURALWELL, LLC		1,072.50	07-MAR-16	1,072.50	Reconciled
365713		03-MAR-16	NATURES IMAGE INC		515.25	08-MAR-16	515.25	Reconciled
365714		03-MAR-16	NOVACOAST INC		14,184.00	09-MAR-16	14,184.00	Reconciled
365715		03-MAR-16	OLIN CORPORATION		14,028.21	10-MAR-16	14,028.21	Reconciled
365716		03-MAR-16	ONESOURCE		3,952.31	07-MAR-16	3,952.31	Reconciled
365717		03-MAR-16	DISTRIBUTORS LLC ORANGE COUNTY AUTO PARTS CO		110.15	07-MAR-16	110.15	Reconciled
365718		03-MAR-16	ORANGE COUNTY SHERIFF'S OFFICE		62.50	18-MAR-16	62.50	Reconciled
365719		03-MAR-16	ORANGE COUNTY VECTOR CONTROL DISTRICT		2,027.03	11-MAR-16	2,027.03	Reconciled
365720		03-MAR-16	PACIFIC PARTS & CONTROLS INC		10,915.48	09-MAR-16	10,915.48	Reconciled
365721		03-MAR-16	PAYNE & FEARS LLP		6,753.00	08-MAR-16	6,753.00	Reconciled
365722		03-MAR-16	PERS LONG TERM CARE		771.11	09-MAR-16	771.11	Reconciled
365723		03-MAR-16	POLLARDWATER.COM		328.32	07-MAR-16	328.32	Reconciled
365724		03-MAR-16	PRAXAIR DISTRIBUTION INC		822.93	07-MAR-16	822.93	Reconciled
365725		03-MAR-16	PRAXAIR DISTRIBUTION INC		735.00	07-MAR-16	735.00	Reconciled
365726		03-MAR-16	PREMIER PAVING INC.		776.64	08-MAR-16	776.64	Reconciled
365727		03-MAR-16	PRUDENTIAL OVERALL SUPPLY		5,051.72	08-MAR-16	5,051.72	Reconciled
365728		03-MAR-16	PUKKA INC		72.77	10-MAR-16	72.77	Reconciled
365729		03-MAR-16	QUICKEL PAVING INC		2,035.00	07-MAR-16	2,035.00	Reconciled
365730		03-MAR-16	RAM AIR ENGINEERING INC		4,128.75	09-MAR-16	4,128.75	Reconciled
365731		03-MAR-16	REED, JAMES D		2,015.00	14-MAR-16	2,015.00	Reconciled
365732		03-MAR-16	RICHARD C SLADE & ASSOCIATES LLC		6,200.80	17-MAR-16	6,200.80	Reconciled
365733		03-MAR-16	ROSEMOUNT INC.		9,023.36	08-MAR-16	9,023.36	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 6

Bank Account Currency: USD (US Dollar)
 Payment Type: All

Payment Currency: USD (US Dollar)
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365734		03-MAR-16	SANTA ANA BLUE PRINT		942.71	09-MAR-16	942.71	Reconciled
365735		03-MAR-16	SANTA ROSA APARTMENTS		11.82	10-MAR-16	11.82	Reconciled
365736		03-MAR-16	SANTIAGO AQUEDUCT COMMISSION		2,009.37	04-MAR-16	2,009.37	Reconciled
365737		03-MAR-16	SCHINDLER ELEVATOR CORPORATION		180.14	08-MAR-16	180.14	Reconciled
365738		03-MAR-16	SECURTEC DISTRICT PATROL, INC.		13,167.00	14-MAR-16	13,167.00	Reconciled
365739		03-MAR-16	SHAMROCK SUPPLY CO INC		752.85	07-MAR-16	752.85	Reconciled
365740		03-MAR-16	SIEMENS INDUSTRY INC		6,951.05	07-MAR-16	6,951.05	Reconciled
365741		03-MAR-16	SITMATIC		2,279.64	08-MAR-16	2,279.64	Reconciled
365742		03-MAR-16	SOUTH COAST ANSWERING SERVICE		525.96	07-MAR-16	525.96	Reconciled
365743		03-MAR-16	SOUTHERN CALIFORNIA EDISON COMPANY		336,882.87	07-MAR-16	336,882.87	Reconciled
365744		03-MAR-16	SOUTHLAND WATER TECHNOLOGIES LLC		36,386.00	14-MAR-16	36,386.00	Reconciled
365745		03-MAR-16	SPX CORP		3,460.86	07-MAR-16	3,460.86	Reconciled
365746		03-MAR-16	STANDARD REGISTER, INC.		2,453.90	07-MAR-16	2,453.90	Reconciled
365747		03-MAR-16	STANTEC CONSULTING SERVICES INC.		6,593.35	07-MAR-16	6,593.35	Reconciled
365748		03-MAR-16	TESTAMERICA LABORATORIES, INC		192.15	09-MAR-16	192.15	Reconciled
365749		03-MAR-16	THOMPSON INDUSTRIAL SUPPLY		308.01	09-MAR-16	308.01	Reconciled
365750		03-MAR-16	THYSSENKRUPP ELEVATOR CORPORATION		179.64	07-MAR-16	179.64	Reconciled
365751		03-MAR-16	TIC-OFFICE PROPERTIES		1,945.50	18-MAR-16	1,945.50	Reconciled
365752		03-MAR-16	TRANSCAT, INC		3,151.14	09-MAR-16	3,151.14	Reconciled
365753		03-MAR-16	TRI POINTE HOMES, INC.		367.14	07-MAR-16	367.14	Reconciled
365754		03-MAR-16	TROPICAL PLAZA NURSERY INC		4,841.00	07-MAR-16	4,841.00	Reconciled
365755		03-MAR-16	TRUCPARCO		1,682.71	10-MAR-16	1,682.71	Reconciled
365756		03-MAR-16	UNITED PARCEL SERVICE INC		81.79	07-MAR-16	81.79	Reconciled
365757		03-MAR-16	UNITED RENTALS NORTHWEST INC		500.55	07-MAR-16	500.55	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 7
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365758		03-MAR-16	UNITED SITE SERVICES OF CALIFORNIA INC		630.56	08-MAR-16	630.56	Reconciled
365759		03-MAR-16	UNITED STATES POST OFFICE		27,083.33	10-MAR-16	27,083.33	Reconciled
365760		03-MAR-16	US BANK NAT'L ASSOC N.DAKOTA		1,800.00	07-MAR-16	1,800.00	Reconciled
365761		03-MAR-16	USA BLUEBOOK		814.62	10-MAR-16	814.62	Reconciled
365762		03-MAR-16	VERIZON WIRELESS SERVICES LLC		6,426.56	08-MAR-16	6,426.56	Reconciled
365763		03-MAR-16	VRIDE INC		11,555.00	11-MAR-16	11,555.00	Reconciled
365764		03-MAR-16	WALTERS WHOLESALE ELECTRIC		900.92	08-MAR-16	900.92	Reconciled
365765		03-MAR-16	WASTE MANAGEMENT OF ORANGE COUNTY		1,822.08	07-MAR-16	1,822.08	Reconciled
365766		03-MAR-16	WATERSMART SOFTWARE, INC		17,974.42	10-MAR-16	17,974.42	Reconciled
365767		03-MAR-16	WAXIE'S ENTERPRISES, INC		1,203.25	08-MAR-16	1,203.25	Reconciled
365768		03-MAR-16	WECK LABORATORIES INC		2,140.00	10-MAR-16	2,140.00	Reconciled
365769		03-MAR-16	WESTERN EXTERMINATOR COMPANY		18,657.00	11-MAR-16	18,657.00	Reconciled
365770		03-MAR-16	WORTHINGTON DIRECT HOLDINGS , LLC		1,609.70	08-MAR-16	1,609.70	Reconciled
365771		04-MAR-16	AT&T	CAROL STREAM 1	3,649.06	09-MAR-16	3,649.06	Reconciled
365772		04-MAR-16	JCI JONES	CINCINNATI	9,948.13	08-MAR-16	9,948.13	Reconciled

365773	04-MAR-16	CHEMICALS INC IRWD-PETTY CASH	IRVINE	944.16	08-MAR-16	944.16	Reconciled
365774	08-MAR-16	CUSTODIAN JCI JONES	CINCINNATI	4,404.40	14-MAR-16	4,404.40	Reconciled
365775	10-MAR-16	CHEMICALS INC SOUTH COAST AIR	DIAMOND	3,636.95			Negotiable
365776	10-MAR-16	QUALITY MANAGEMENT DISTRICT					
365776	10-MAR-16	Mossbarger, Anthony J (Tony)		994.35	10-MAR-16	994.35	Reconciled
365777	10-MAR-16	Kanoff, Debbie G (Debbie)		749.55	10-MAR-16	749.55	Reconciled
365778	10-MAR-16	McElroy, Dorien		38.37	15-MAR-16	38.37	Reconciled
365779	10-MAR-16	Garza, Gaspar		141.69	14-MAR-16	141.69	Reconciled
365780	10-MAR-16	Pan, Jenny W (Jenny)		96.67	22-MAR-16	96.67	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 8
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365781		10-MAR-16	Leonard, Joshua (Josh)		118.51	11-MAR-16	118.51	Reconciled
365782		10-MAR-16	Bonkowski, Leslie A (Leslie)		46.95	21-MAR-16	46.95	Reconciled
365783		10-MAR-16	Cortez, Malcolm A (Malcolm)		73.44	14-MAR-16	73.44	Reconciled
365784		10-MAR-16	Fulles, Margaret M (Margaret)		234.08	11-MAR-16	234.08	Reconciled
365785		10-MAR-16	Gallegos, Richard (Richard)		96.00	11-MAR-16	96.00	Reconciled
365786		10-MAR-16	Torres, Richard P (Richard)		250.00	14-MAR-16	250.00	Reconciled
365787		10-MAR-16	Sidlin, Wayne		780.00	17-MAR-16	780.00	Reconciled
365788		10-MAR-16	ADS LLC		1,936.50	14-MAR-16	1,936.50	Reconciled
365789		10-MAR-16	AKM CONSULTING ENGINEERS, INC.		19,214.00	17-MAR-16	19,214.00	Reconciled
365790		10-MAR-16	ALEXANDER'S CONTRACT SERVICES, INC.		110,418.52	16-MAR-16	110,418.52	Reconciled
365791		10-MAR-16	ALLIED ELECTRONICS INC		495.46	16-MAR-16	495.46	Reconciled
365792		10-MAR-16	ALSTON & BIRD LLP		6,047.38	15-MAR-16	6,047.38	Reconciled
365793		10-MAR-16	AMERICAN WATER WORKS ASSOC		9,666.00	21-MAR-16	9,666.00	Reconciled
365794		10-MAR-16	ANTHONY SUFFREDINI		5,200.00	14-MAR-16	5,200.00	Reconciled
365795		10-MAR-16	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		59.65	14-MAR-16	59.65	Reconciled
365796		10-MAR-16	AQUA-METRIC SALES COMPANY		20,215.08	21-MAR-16	20,215.08	Reconciled
365797		10-MAR-16	ARCADIS U.S., INC.		2,725.00	14-MAR-16	2,725.00	Reconciled
365798		10-MAR-16	ARIO ESTRADA AND ALICIA Y. ESTRADA		43.80			Negotiable
365799		10-MAR-16	ARTURA, DARLA		12.35	18-MAR-16	12.35	Reconciled
365800		10-MAR-16	AT&T		1,679.12	16-MAR-16	1,679.12	Reconciled
365801		10-MAR-16	AT&T		4,249.45	16-MAR-16	4,249.45	Reconciled
365802		10-MAR-16	AUTOZONE PARTS, INC.		55.01	16-MAR-16	55.01	Reconciled
365803		10-MAR-16	AUTOZONE PARTS, INC.		357.63	16-MAR-16	357.63	Reconciled
365804		10-MAR-16	BATTERIES PLUS AND BATTERIES PLUS BULBS		234.79	15-MAR-16	234.79	Reconciled
365805		10-MAR-16	BDC SPECIAL WASTE		882.00	15-MAR-16	882.00	Reconciled
365806		10-MAR-16	BIOMAGIC INC		8,194.18	16-MAR-16	8,194.18	Reconciled
365807		10-MAR-16	BIOMERIEUX INC		549.29	15-MAR-16	549.29	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 9
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365808		10-MAR-16	BIRKHOZ, ROSEMARY		13.74	15-MAR-16	13.74	Reconciled
365809		10-MAR-16	BLACK & VEATCH CORPORATION		368,589.80	18-MAR-16	368,589.80	Reconciled
365810		10-MAR-16	BLAIRS TOWING INC		69.00	24-MAR-16	69.00	Reconciled
365811		10-MAR-16	BOYD & ASSOCIATES		345.00	14-MAR-16	345.00	Reconciled
365812		10-MAR-16	BROWN, HAMILTON		31.22	18-MAR-16	31.22	Reconciled
365813		10-MAR-16	CALIFORNIA BARRICADE INC		12,507.50	18-MAR-16	12,507.50	Reconciled
365814		10-MAR-16	CANON FINANCIAL SERVICES, INC		1,611.36	15-MAR-16	1,611.36	Reconciled
365815		10-MAR-16	CANON SOLUTIONS		407.01	14-MAR-16	407.01	Reconciled

365816	10-MAR-16	AMERICA, INC. CDW GOVERNMENT LLC	1,778.08	21-MAR-16	1,778.08	Reconciled
365817	10-MAR-16	CHARLES P CROWLEY COMPANY INC	2,871.27	17-MAR-16	2,871.27	Reconciled
365818	10-MAR-16	CHIN, YU MEI	35.04			Negotiable
365819	10-MAR-16	CITY OF TUSTIN	307,791.59	16-MAR-16	307,791.59	Reconciled
365820	10-MAR-16	CLEAN ENERGY	1,202.64	21-MAR-16	1,202.64	Reconciled
365821	10-MAR-16	COMMERCIAL COATING RESOURCE INC	6,930.00			Negotiable
365822	10-MAR-16	CORELOGIC INC	42.00	15-MAR-16	42.00	Reconciled
365823	10-MAR-16	CR & R INCORPORATED	135.65	16-MAR-16	135.65	Reconciled
365824	10-MAR-16	CREDENTIAL CHECK CORPORATION	492.60	14-MAR-16	492.60	Reconciled
365825	10-MAR-16	CURT PRINGLE AND ASSOCIATES	10,000.00	22-MAR-16	10,000.00	Reconciled
365826	10-MAR-16	DCSE, INC.	20,446.00	17-MAR-16	20,446.00	Reconciled
365827	10-MAR-16	DILYTTICS INC	63,156.09	18-MAR-16	63,156.09	Reconciled
365828	10-MAR-16	ECO SERVICES LLC	4,964.87	16-MAR-16	4,964.87	Reconciled
365829	10-MAR-16	EHS INTERNATIONAL, INC	1,687.50	15-MAR-16	1,687.50	Reconciled
365830	10-MAR-16	ELDUMIATI, ISMAIL	165.63	15-MAR-16	165.63	Reconciled
365831	10-MAR-16	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	9,804.89	15-MAR-16	9,804.89	Reconciled
365832	10-MAR-16	ENVIRONMENTAL NATURE CENTER	1,000.00	21-MAR-16	1,000.00	Reconciled
365833	10-MAR-16	ENVIRONMENTAL SCIENCE ASSOCIATES	277.50	15-MAR-16	277.50	Reconciled
365834	10-MAR-16	EVANTEC CORPORATION	13,807.04	18-MAR-16	13,807.04	Reconciled
365835	10-MAR-16	EXCHANGE CLUB OF IRVINE	250.00			Negotiable
365836	10-MAR-16	EXECUTIVE LIGHTING & ELECTRIC	1,700.09	15-MAR-16	1,700.09	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 10
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365837		10-MAR-16	FARRELL & ASSOCIATES		122.91	16-MAR-16	122.91	Reconciled
365838		10-MAR-16	FEDEX		489.73	17-MAR-16	489.73	Reconciled
365839		10-MAR-16	FISHER SCIENTIFIC COMPANY LLC		334.90	14-MAR-16	334.90	Reconciled
365840		10-MAR-16	FRONTLINE SENSORS AND SYSTEMS, INC.		12,208.99	29-MAR-16	12,208.99	Reconciled
365841		10-MAR-16	GALLADE CHEMICAL INC		626.40	17-MAR-16	626.40	Reconciled
365842		10-MAR-16	GHD INC.		58,359.21	18-MAR-16	58,359.21	Reconciled
365843		10-MAR-16	GRAINGER		2,414.91	14-MAR-16	2,414.91	Reconciled
365844		10-MAR-16	GRAYBAR ELECTRIC COMPANY		2,790.80	14-MAR-16	2,790.80	Reconciled
365845		10-MAR-16	HACH COMPANY		468.40	14-MAR-16	468.40	Reconciled
365846		10-MAR-16	HELPMATES STAFFING SERVICES		14,701.94	16-MAR-16	14,701.94	Reconciled
365847		10-MAR-16	HERSCHBERG, BRENDA		15.87			Negotiable
365848		10-MAR-16	HILL BROTHERS CHEMICAL COMPANY		6,377.10	14-MAR-16	6,377.10	Reconciled
365849		10-MAR-16	HOME DEPOT USA INC		105.47	18-MAR-16	105.47	Reconciled
365850		10-MAR-16	HYDRO-SCAPE PRODUCTS INC		480.96	14-MAR-16	480.96	Reconciled
365851		10-MAR-16	IBM CORPORATION		5,967.60	16-MAR-16	5,967.60	Reconciled
365852		10-MAR-16	INDUSTRIAL ELECTRIC MACHINERY LLC		1,069.71	15-MAR-16	1,069.71	Reconciled
365853		10-MAR-16	IRVINE PIPE & SUPPLY INC		1,391.96	14-MAR-16	1,391.96	Reconciled
365854		10-MAR-16	IRVINE UNIFIED SCHOOL DISTRICT		1,151.97	17-MAR-16	1,151.97	Reconciled
365855		10-MAR-16	JACOBS PROJECT MANAGEMENT CO.		26,600.00	17-MAR-16	26,600.00	Reconciled
365856		10-MAR-16	JAFREY, MANAAL		55.67	17-MAR-16	55.67	Reconciled
365857		10-MAR-16	JOHN ROBINSON CONSULTING, INC.		34,582.25	18-MAR-16	34,582.25	Reconciled
365858		10-MAR-16	JOHNSON, MARY		42.22	18-MAR-16	42.22	Reconciled
365859		10-MAR-16	JONES JR, FLETCHER		16,183.52	17-MAR-16	16,183.52	Reconciled
365860		10-MAR-16	KAESER COMPRESSORS, INC.		1,499.83	14-MAR-16	1,499.83	Reconciled
365861		10-MAR-16	KAYUGA SOLUTION INC		23,430.00	18-MAR-16	23,430.00	Reconciled
365862		10-MAR-16	KEC ENGINEERING		486.06	21-MAR-16	486.06	Reconciled
365863		10-MAR-16	KENT & AMY DAHLBERG		6,471.15	16-MAR-16	6,471.15	Reconciled
365864		10-MAR-16	KLEINFELDER, INC.		51,909.71	17-MAR-16	51,909.71	Reconciled
365865		10-MAR-16	KS DIRECT LLC		1,756.08	14-MAR-16	1,756.08	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 11
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)

Payment Type: All

Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365866		10-MAR-16	LA HABRA FENCE COMPANY INC		11,516.00	17-MAR-16	11,516.00	Reconciled
365867		10-MAR-16	LANDCARE HOLDINGS, INC.		1,893.00	16-MAR-16	1,893.00	Reconciled
365868		10-MAR-16	LIN, SANDY		37.13	14-MAR-16	37.13	Reconciled
365869		10-MAR-16	LIU, SHERMAN		79.78	21-MAR-16	79.78	Reconciled
365870		10-MAR-16	LUBRICATION ENGINEERS, INC.		5,422.73	14-MAR-16	5,422.73	Reconciled
365871		10-MAR-16	LUKINA, VICKIE		41.74	16-MAR-16	41.74	Reconciled
365872		10-MAR-16	MAILFINANCE INC		9,931.08	15-MAR-16	9,931.08	Reconciled
365873		10-MAR-16	MARCIANO, DALIA		273.89	14-MAR-16	273.89	Reconciled
365874		10-MAR-16	MC MASTER CARR SUPPLY CO		4,531.86	15-MAR-16	4,531.86	Reconciled
365875		10-MAR-16	MCKINNEY, HUGH		33.14	16-MAR-16	33.14	Reconciled
365876		10-MAR-16	MDT INC		17,700.00	24-MAR-16	17,700.00	Reconciled
365877		10-MAR-16	MECIJA, KATHRYN		71.46			Negotiable
365878		10-MAR-16	MEL UNDERWOOD WATER TRUCKS & EQUIPMENT		910.00	14-MAR-16	910.00	Reconciled
365879		10-MAR-16	MISSION COMMUNICATIONS LLC		1,047.36	15-MAR-16	1,047.36	Reconciled
365880		10-MAR-16	NATIONAL READY MIXED CONCRETE CO.		966.00	14-MAR-16	966.00	Reconciled
365881		10-MAR-16	NATURES IMAGE INC		144.96	15-MAR-16	144.96	Reconciled
365882		10-MAR-16	NEW PIG CORPORATION		71.12	16-MAR-16	71.12	Reconciled
365883		10-MAR-16	NGUYEN, KIEN		54.76			Negotiable
365884		10-MAR-16	NMG GEOTECHNICAL INC		19,801.60	24-MAR-16	19,801.60	Reconciled
365885		10-MAR-16	NOVACOAST INC		2,785.00	15-MAR-16	2,785.00	Reconciled
365886		10-MAR-16	OC BLASTERS INC.		669.24	15-MAR-16	669.24	Reconciled
365887		10-MAR-16	OLIN CORPORATION		11,439.58	16-MAR-16	11,439.58	Reconciled
365888		10-MAR-16	ORACLE AMERICA, INC.		217,808.16	16-MAR-16	217,808.16	Reconciled
365889		10-MAR-16	ORANGE COUNTY AUTO PARTS CO		338.50	14-MAR-16	338.50	Reconciled
365890		10-MAR-16	OUTSOURCE TECHNICAL LLC		67,983.00	16-MAR-16	67,983.00	Reconciled
365891		10-MAR-16	PACIFIC GAS AND ELECTRIC COMPANY		22.90	14-MAR-16	22.90	Reconciled
365892		10-MAR-16	PACIFIC RESOURCE RECOVERY		1,585.40	14-MAR-16	1,585.40	Reconciled
365893		10-MAR-16	PACRIM ENGINEERING INC.		3,437.50	17-MAR-16	3,437.50	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 12
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365894		10-MAR-16	PAPER DEPOT DOCUMENT DESTRUCTION LLC		1,455.15	21-MAR-16	1,455.15	Reconciled
365895		10-MAR-16	PARKHOUSE TIRE INC		2,801.61	15-MAR-16	2,801.61	Reconciled
365896		10-MAR-16	PINE ENVIRONMENTAL SERVICES LLC		1,647.13	14-MAR-16	1,647.13	Reconciled
365897		10-MAR-16	PIPELOGIX INC		5,815.00	18-MAR-16	5,815.00	Reconciled
365898		10-MAR-16	PRAXAIR DISTRIBUTION INC		547.06	16-MAR-16	547.06	Reconciled
365899		10-MAR-16	PRO GROWERS INC		5,091.64	16-MAR-16	5,091.64	Reconciled
365900		10-MAR-16	QUINCY COMPRESSOR LLC		2,965.28	18-MAR-16	2,965.28	Reconciled
365901		10-MAR-16	RAINBOW DISPOSAL CO INC		325.21	16-MAR-16	325.21	Reconciled
365902		10-MAR-16	RAJARAMAN, BALA		932.52	14-MAR-16	932.52	Reconciled
365903		10-MAR-16	RAM AIR ENGINEERING INC		419.75	15-MAR-16	419.75	Reconciled
365904		10-MAR-16	RANCHO TIERRA APTS		44.20	21-MAR-16	44.20	Reconciled
365905		10-MAR-16	REAL WATER CONSULTANTS INC.		33,180.00	16-MAR-16	33,180.00	Reconciled
365906		10-MAR-16	RESPONSE ENVELOPE, INC		2,644.43	15-MAR-16	2,644.43	Reconciled
365907		10-MAR-16	RINGCLEAR LLC		109.08	15-MAR-16	109.08	Reconciled
365908		10-MAR-16	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		220,628.76	17-MAR-16	220,628.76	Reconciled
365909		10-MAR-16	SAGE HILL SCHOOL		388.36	14-MAR-16	388.36	Reconciled
365910		10-MAR-16	SANDERS PAVING INC		13,838.00	17-MAR-16	13,838.00	Reconciled
365911		10-MAR-16	SANTA ANA BLUE PRINT		159.42	15-MAR-16	159.42	Reconciled
365912		10-MAR-16	SCOTT HEALTH & SAFETY		1,123.54	17-MAR-16	1,123.54	Reconciled

365913	10-MAR-16	SEPARATION PROCESSES INC	841.25	23-MAR-16	841.25	Reconciled
365914	10-MAR-16	SHAMROCK SUPPLY CO INC	3,878.09	14-MAR-16	3,878.09	Reconciled
365915	10-MAR-16	SIGNATURE FLOORING INC	819.00	15-MAR-16	819.00	Reconciled
365916	10-MAR-16	SITMATIC	660.61	15-MAR-16	660.61	Reconciled
365917	10-MAR-16	SOUTHERN CALIFORNIA EDISON COMPANY	163,776.05	14-MAR-16	163,776.05	Reconciled
365918	10-MAR-16	SOUTHERN CALIFORNIA SECURITY CENTER, INC.	191.34	23-MAR-16	191.34	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 13
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365919		10-MAR-16	SOUTHERN COUNTIES LUBRICANTS LLC		1,241.50	15-MAR-16	1,241.50	Reconciled
365920		10-MAR-16	SPATIAL WAVE, INC.		9,380.00	15-MAR-16	9,380.00	Reconciled
365921		10-MAR-16	STANTEC CONSULTING SERVICES INC.		31,652.50	17-MAR-16	31,652.50	Reconciled
365922		10-MAR-16	STERILIZER TECHNICAL SPECIALISTS LLC		375.00	14-MAR-16	375.00	Reconciled
365923		10-MAR-16	SUPERIOR WATER TECHNOLOGIES		12,554.00	17-MAR-16	12,554.00	Reconciled
365924		10-MAR-16	SWAINS ELECTRIC MOTOR SERVICE		5,892.80	15-MAR-16	5,892.80	Reconciled
365925		10-MAR-16	TATONE, STEVE		278.01	16-MAR-16	278.01	Reconciled
365926		10-MAR-16	TEKDRAULICS		97,430.02	16-MAR-16	97,430.02	Reconciled
365927		10-MAR-16	TETRA TECH, INC		32,524.45	18-MAR-16	32,524.45	Reconciled
365928		10-MAR-16	THE GAS COMPANY		329.33	21-MAR-16	329.33	Reconciled
365929		10-MAR-16	THOMAS HARDER & CO		1,160.00	21-MAR-16	1,160.00	Reconciled
365930		10-MAR-16	TIC-RETAIL PROPERTIES		717.56	21-MAR-16	717.56	Reconciled
365931		10-MAR-16	TOLL BROS., INC		57.37	18-MAR-16	57.37	Reconciled
365932		10-MAR-16	TRIPAC MARKETING INC		1,120.59	15-MAR-16	1,120.59	Reconciled
365933		10-MAR-16	TROPICAL PLAZA NURSERY INC		9,964.20	14-MAR-16	9,964.20	Reconciled
365934		10-MAR-16	TRUCPARCO		2,470.63	21-MAR-16	2,470.63	Reconciled
365935		10-MAR-16	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		1,615.00	14-MAR-16	1,615.00	Reconciled
365936		10-MAR-16	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		942.00	22-MAR-16	942.00	Reconciled
365937		10-MAR-16	UNITED PARCEL SERVICE INC		38.61	15-MAR-16	38.61	Reconciled
365938		10-MAR-16	VERIZON CALIFORNIA INC		274.74	16-MAR-16	274.74	Reconciled
365939		10-MAR-16	VERIZON CALIFORNIA INC		38.01	16-MAR-16	38.01	Reconciled
365940		10-MAR-16	VERIZON WIRELESS SERVICES LLC		1,446.15	16-MAR-16	1,446.15	Reconciled
365941		10-MAR-16	VULCAN MATERIALS COMPANY		1,720.67	14-MAR-16	1,720.67	Reconciled
365942		10-MAR-16	VWR INTERNATIONAL, LLC		1,221.18	16-MAR-16	1,221.18	Reconciled
365943		10-MAR-16	WALTERS WHOLESALE ELECTRIC		845.14	21-MAR-16	845.14	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 14
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365944		10-MAR-16	WASTE MANAGEMENT OF ORANGE COUNTY		2,514.23	15-MAR-16	2,514.23	Reconciled
365945		10-MAR-16	WATER WELL REDEVELOPERS INC.		5,390.00	21-MAR-16	5,390.00	Reconciled
365946		10-MAR-16	WAX DEPOT		349.37	21-MAR-16	349.37	Reconciled
365947		10-MAR-16	WAXIE'S ENTERPRISES, INC		352.97	18-MAR-16	352.97	Reconciled
365948		10-MAR-16	WESTAMERICA COMMUNICATIONS, INC.		28,808.49	11-MAR-16	28,808.49	Reconciled
365949		10-MAR-16	WESTERN EXTERMINATOR COMPANY		12,394.50	18-MAR-16	12,394.50	Reconciled

365950	10-MAR-16	WORTHINGTON DIRECT HOLDINGS , LLC	858.28	15-MAR-16	858.28	Reconciled
365951	10-MAR-16	YP LLC	123.50	15-MAR-16	123.50	Reconciled
365952	10-MAR-16	YSI, INC	1,251.37	15-MAR-16	1,251.37	Reconciled
365953	10-MAR-16	DEACON, JANET	1,740.07			Negotiable
365954	15-MAR-16	Swan, Peer	2,882.26	15-MAR-16	2,882.26	Reconciled
365955	15-MAR-16	GREVE, JUDITH	3,087.97	16-MAR-16	3,087.97	Reconciled
365956	15-MAR-16	NORTHWOOD PLACE APTS	255.35			Voided
365957	17-MAR-16	Stontz, Adam J	521.63	21-MAR-16	521.63	Reconciled
365958	17-MAR-16	Bill, Cody (Cody)	1,126.60	22-MAR-16	1,126.60	Reconciled
365959	17-MAR-16	Hayden, David M (Dave)	130.00	21-MAR-16	130.00	Reconciled
365960	17-MAR-16	Sosa, Ives (Ives)	80.00			Negotiable
365961	17-MAR-16	Oldewage, Lars D (Lars)	32.50	21-MAR-16	32.50	Reconciled
365962	17-MAR-16	Nelson, Mark D (Mark)	699.00	28-MAR-16	699.00	Reconciled
365963	17-MAR-16	Weghorst, Paul A (Paul)	94.14	17-MAR-16	94.14	Reconciled
365964	17-MAR-16	Bennett, Ray R (Ray)	368.89	28-MAR-16	368.89	Reconciled
365965	17-MAR-16	Lao, Richard S	262.86	21-MAR-16	262.86	Reconciled
365966	17-MAR-16	Perez, Rodolfo (Rudy)	60.65	30-MAR-16	60.65	Reconciled
365967	17-MAR-16	Sinclair, Todd C (Todd)	1,413.99	29-MAR-16	1,413.99	Reconciled
365968	17-MAR-16	Tegel, Zackariah W (Zack)	2,906.24	28-MAR-16	2,906.24	Reconciled
365969	17-MAR-16	ADVANCED CALIBRATION DESIGNS INC	1,091.00	24-MAR-16	1,091.00	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 15
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
365970		17-MAR-16	ALAVICHEH, MOHAMMAD		57.18	28-MAR-16	57.18	Reconciled
365971		17-MAR-16	ALL AMERICAN ASPHALT		733.19	22-MAR-16	733.19	Reconciled
365972		17-MAR-16	ALL AMERICAN SEWER TOOLS		2,154.14	25-MAR-16	2,154.14	Reconciled
365973		17-MAR-16	ALL STAR GLASS		343.48	21-MAR-16	343.48	Reconciled
365974		17-MAR-16	ALPHA TRAFFIC SERVICES, INC.		570.00	25-MAR-16	570.00	Reconciled
365975		17-MAR-16	ALTON BUILDERS		901.60	29-MAR-16	901.60	Reconciled
365976		17-MAR-16	AM LEONARD INC		1,330.61	21-MAR-16	1,330.61	Reconciled
365977		17-MAR-16	ANDERSONPENNA PARTNERS, INC		31,339.50	25-MAR-16	31,339.50	Reconciled
365978		17-MAR-16	ANTHEM BLUE CROSS		562.26	24-MAR-16	562.26	Reconciled
365979		17-MAR-16	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		209.15	21-MAR-16	209.15	Reconciled
365980		17-MAR-16	ARCADIS U.S., INC.		83,723.20	25-MAR-16	83,723.20	Reconciled
365981		17-MAR-16	ASHFORD, WALT		100.28			Negotiable
365982		17-MAR-16	AT&T		3,649.06	24-MAR-16	3,649.06	Reconciled
365983		17-MAR-16	AT&T		48.57	24-MAR-16	48.57	Reconciled
365984		17-MAR-16	ATHENS SERVICES		586.35	28-MAR-16	586.35	Reconciled
365985		17-MAR-16	AUTOZONE PARTS, INC.		349.55	22-MAR-16	349.55	Reconciled
365986		17-MAR-16	B & H PHOTO & VIDEO		1,608.55	25-MAR-16	1,608.55	Reconciled
365987		17-MAR-16	BAY AREA TRENCHERS, INC.		447.91	21-MAR-16	447.91	Reconciled
365988		17-MAR-16	BAYVIEW COMMERCIAL ASSN		10,355.32	28-MAR-16	10,355.32	Reconciled
365989		17-MAR-16	BECK, YOUNG T		329.22	22-MAR-16	329.22	Reconciled
365990		17-MAR-16	BELL TOWER FLORIST & GIFTS		394.81	25-MAR-16	394.81	Reconciled
365991		17-MAR-16	BEN'S ASPHALT, INC.		747.35			Negotiable
365992		17-MAR-16	BIGWIG MONSTER, LLC		5,850.00	21-MAR-16	5,850.00	Reconciled
365993		17-MAR-16	BILINGUAL TRAINING INSTITUTE - BTI		1,910.00	25-MAR-16	1,910.00	Reconciled
365994		17-MAR-16	BIOMAGIC INC		3,811.97	21-MAR-16	3,811.97	Reconciled
365995		17-MAR-16	BLAIRS TOWING INC		85.00	28-MAR-16	85.00	Reconciled
365996		17-MAR-16	BLOOMBERG FINANCE LP		12,465.00	25-MAR-16	12,465.00	Reconciled
365997		17-MAR-16	BORCHARD SURVEYING & MAPPING, INC.		11,485.00			Negotiable
365998		17-MAR-16	BOYD & ASSOCIATES		1,767.00	21-MAR-16	1,767.00	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 16
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

366049	17-MAR-16	ASSOCIATES IRVINE IBM CORPORATION		925.00	23-MAR-16	925.00	Reconciled
366050	17-MAR-16	ION WAVE TECHNOLOGIES, INC.		18,775.00	25-MAR-16	18,775.00	Reconciled
366051	17-MAR-16	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,814.90	28-MAR-16	1,814.90	Reconciled
366052	17-MAR-16	IRVINE PACIFIC, LP		41.50	28-MAR-16	41.50	Reconciled
366053	17-MAR-16	IRVINE PIPE & SUPPLY INC		645.96	21-MAR-16	645.96	Reconciled
366054	17-MAR-16	IRVINE UNIFIED SCHOOL DISTRICT		6,695.83			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 18
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366055		17-MAR-16	IRWD EMPLOYEE ASSOCIATION		790.00			Negotiable
366056		17-MAR-16	JCI JONES CHEMICALS INC		2,962.05	21-MAR-16	2,962.05	Reconciled
366057		17-MAR-16	JOHNSON BROTHERS VENTURES, INC.		980.35			Negotiable
366058		17-MAR-16	JUMAA, OMARAL		26.11	21-MAR-16	26.11	Reconciled
366059		17-MAR-16	KENT & AMY DAHLBERG		9,200.00	24-MAR-16	9,200.00	Reconciled
366060		17-MAR-16	KOELLER NEBEKER CARLSON & HALUCK, LLP		4,604.70	21-MAR-16	4,604.70	Reconciled
366061		17-MAR-16	LARKIN, SHANNON		42.02			Negotiable
366062		17-MAR-16	LBA REALTY BPCC, LLC		885.18	21-MAR-16	885.18	Reconciled
366063		17-MAR-16	LCS TECHNOLOGIES, INC.		2,430.00	22-MAR-16	2,430.00	Reconciled
366064		17-MAR-16	LESSMAN, STEVEN J		193.06	22-MAR-16	193.06	Reconciled
366065		17-MAR-16	LI, YEQUN		50.00	24-MAR-16	50.00	Reconciled
366066		17-MAR-16	LINE-X OF SOUTH COAST		1,248.00	22-MAR-16	1,248.00	Reconciled
366067		17-MAR-16	MARINA LANDSCAPE MAINTENANCE, INC.		6,152.82	24-MAR-16	6,152.82	Reconciled
366068		17-MAR-16	MARK COMPANY		806.92	22-MAR-16	806.92	Reconciled
366069		17-MAR-16	MBC APPLIED		1,300.00	22-MAR-16	1,300.00	Reconciled
			ENVIRONMENTAL SCIENCES					
366070		17-MAR-16	MC FADDEN-DALE INDUSTRIAL		19.05	23-MAR-16	19.05	Reconciled
366071		17-MAR-16	MC MASTER CARR SUPPLY CO		2,803.83	23-MAR-16	2,803.83	Reconciled
366072		17-MAR-16	MEDORA CORPORATION		2,653.00	21-MAR-16	2,653.00	Reconciled
366073		17-MAR-16	MUTUAL PROPANE		27.00	21-MAR-16	27.00	Reconciled
366074		17-MAR-16	NATIONAL READY MIXED CONCRETE CO.		1,418.70	21-MAR-16	1,418.70	Reconciled
366075		17-MAR-16	NEPTUNE TECHNOLOGY GROUP, INC.		75,686.40	25-MAR-16	75,686.40	Reconciled
366076		17-MAR-16	NOVACOAST INC		1,600.00	21-MAR-16	1,600.00	Reconciled
366077		17-MAR-16	O'HAREN GOVERNMENT RELATIONS		6,521.00	22-MAR-16	6,521.00	Reconciled
366078		17-MAR-16	OCEAN BLUE ENVIRONMENTAL SERVICES INC		2,512.99	22-MAR-16	2,512.99	Reconciled
366079		17-MAR-16	OLIN CORPORATION		13,889.20	23-MAR-16	13,889.20	Reconciled
366080		17-MAR-16	OMEGA INDUSTRIAL SUPPLY, INC.		428.40	21-MAR-16	428.40	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 19
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366081		17-MAR-16	ONESOURCE DISTRIBUTORS LLC		310.06	21-MAR-16	310.06	Reconciled
366082		17-MAR-16	ORANGE COUNTY AUTO PARTS CO		163.23	21-MAR-16	163.23	Reconciled
366083		17-MAR-16	ORANGE COUNTY FIRE AUTHORITY		171.60	22-MAR-16	171.60	Reconciled
366084		17-MAR-16	ORANGE COUNTY SHERIFF'S OFFICE		62.50	25-MAR-16	62.50	Reconciled
366085		17-MAR-16	ORANGE COUNTY TREASURER		304.76	21-MAR-16	304.76	Reconciled
366086		17-MAR-16	ORRICK, HERRINGTON & SUTCLIFFE LLP		30,000.00	24-MAR-16	30,000.00	Reconciled
366087		17-MAR-16	PACIFIC GAS AND ELECTRIC COMPANY		24,595.58	22-MAR-16	24,595.58	Reconciled

366088	17-MAR-16	PACIFIC SURVEYS, LLC	2,103.35	23-MAR-16	2,103.35	Reconciled
366089	17-MAR-16	PARK, KAREN	164.38			Negotiable
366090	17-MAR-16	PELLETIER & ASSOCIATES, INC.	3,305.00	21-MAR-16	3,305.00	Reconciled
366091	17-MAR-16	PERS LONG TERM CARE	771.11	24-MAR-16	771.11	Reconciled
366092	17-MAR-16	PINNACLE TOWERS LLC	666.04	22-MAR-16	666.04	Reconciled
366093	17-MAR-16	PIPELINE PRODUCTS INC	3,019.26	21-MAR-16	3,019.26	Reconciled
366094	17-MAR-16	PIVOT INTERIORS INC	7,218.99	21-MAR-16	7,218.99	Reconciled
366095	17-MAR-16	PORTRAIT CONSTRUCTION	14.17			Negotiable
366096	17-MAR-16	PRAXAIR DISTRIBUTION INC	1,682.63	23-MAR-16	1,682.63	Reconciled
366097	17-MAR-16	RAM AIR ENGINEERING INC	2,989.97	22-MAR-16	2,989.97	Reconciled
366098	17-MAR-16	REACH EMPLOYEE ASSISTANCE INC	932.40			Negotiable
366099	17-MAR-16	REFRIGERATION SUPPLIES DISTRIBUTOR	22.37	22-MAR-16	22.37	Reconciled
366100	17-MAR-16	RELIANCE SAFETY CONSULTANTS, INC.	5,951.68	28-MAR-16	5,951.68	Reconciled
366101	17-MAR-16	RS HUGHES COMPANY, INC.	739.37	22-MAR-16	739.37	Reconciled
366102	17-MAR-16	SANDBERG, JODY	50.42	24-MAR-16	50.42	Reconciled
366103	17-MAR-16	SANTA ANA BLUE PRINT	2,691.88	21-MAR-16	2,691.88	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 20
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366104		17-MAR-16	SCHULER ENGINEERING CORP		627.45			Negotiable
366105		17-MAR-16	SCHULER ENGINEERING CORP		627.45			Negotiable
366106		17-MAR-16	SECURTEC DISTRICT PATROL, INC.		13,067.00			Negotiable
366107		17-MAR-16	SIMI VALLEY LANDFILL AND RECYCLING CENTER		700.26	22-MAR-16	700.26	Reconciled
366108		17-MAR-16	SOUTH COAST WATER CO.		191.68	24-MAR-16	191.68	Reconciled
366109		17-MAR-16	SOUTHERN CALIFORNIA EDISON COMPANY		39,094.87	21-MAR-16	39,094.87	Reconciled
366110		17-MAR-16	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		32.40			Negotiable
366111		17-MAR-16	SOUTHERN COUNTIES LUBRICANTS LLC		835.33	22-MAR-16	835.33	Reconciled
366112		17-MAR-16	SPARKLETT'S		340.85	25-MAR-16	340.85	Reconciled
366113		17-MAR-16	STANTEC CONSULTING SERVICES INC.		1,246.00	22-MAR-16	1,246.00	Reconciled
366114		17-MAR-16	SUSAN A. SIROTA		4,195.00	22-MAR-16	4,195.00	Reconciled
366115		17-MAR-16	TEKDRAULICS		99,197.76	23-MAR-16	99,197.76	Reconciled
366116		17-MAR-16	THE FURMAN GROUP, INC.		12,720.00	29-MAR-16	12,720.00	Reconciled
366117		17-MAR-16	THE GAS COMPANY		2,361.17	29-MAR-16	2,361.17	Reconciled
366118		17-MAR-16	TIC-RETAIL PROPERTIES		15,429.72	23-MAR-16	15,429.72	Reconciled
366119		17-MAR-16	TRIPAC MARKETING INC		267.08	22-MAR-16	267.08	Reconciled
366120		17-MAR-16	TROPICAL PLAZA NURSERY INC		28,429.00	23-MAR-16	28,429.00	Reconciled
366121		17-MAR-16	TRUCPARCO		735.79	25-MAR-16	735.79	Reconciled
366122		17-MAR-16	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		2,219.94	21-MAR-16	2,219.94	Reconciled
366123		17-MAR-16	UNITED PARCEL SERVICE INC		206.90	21-MAR-16	206.90	Reconciled
366124		17-MAR-16	USA BLUEBOOK		861.41	23-MAR-16	861.41	Reconciled
366125		17-MAR-16	USAA		12,424.20	28-MAR-16	12,424.20	Reconciled
366126		17-MAR-16	USDA FOREST SERVICE		60.91	21-MAR-16	60.91	Reconciled
366127		17-MAR-16	VALLEY POWER SYSTEMS INC		2,099.90	21-MAR-16	2,099.90	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 21
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Cleared

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366128		17-MAR-16	VARONA, DONATELA		870.71	29-MAR-16	870.71	Reconciled
366129		17-MAR-16	VERIZON CALIFORNIA INC		50.92	22-MAR-16	50.92	Reconciled
366130		17-MAR-16	VISION TECHNOLOGY SOLUTIONS, LLC		5,700.00	23-MAR-16	5,700.00	Reconciled
366131		17-MAR-16	WALTERS WHOLESALE ELECTRIC		1,144.08	21-MAR-16	1,144.08	Reconciled
366132		17-MAR-16	WANG, SHOW		35.90			Negotiable
366133		17-MAR-16	WATERLINE TECHNOLOGIES INC		5,680.00	21-MAR-16	5,680.00	Reconciled
366134		17-MAR-16	WAXIE'S ENTERPRISES, INC		652.34	23-MAR-16	652.34	Reconciled
366135		17-MAR-16	WESTAMERICA COMMUNICATIONS, INC.		2,440.00	21-MAR-16	2,440.00	Reconciled
366136		17-MAR-16	WESTERN EXTERMINATOR COMPANY		294.00	24-MAR-16	294.00	Reconciled
366137		17-MAR-16	WESTERN NATIONAL CONTRACTORS		739.47	24-MAR-16	739.47	Reconciled
366138		17-MAR-16	WESTPARK MAINT DISTRICT		3,732.01	22-MAR-16	3,732.01	Reconciled
366139		17-MAR-16	WILLIAM LYON HOMES, INC		19,500.00			Negotiable
366140		17-MAR-16	WIRELESS WATCHDOGS, LLC		468.00	24-MAR-16	468.00	Reconciled
366141		17-MAR-16	WORKHORSE DIVING AND SALVAGE		29,669.00	21-MAR-16	29,669.00	Reconciled
366142		17-MAR-16	ZHANG, DONGMIN		12.21			Negotiable
366143		18-MAR-16	ORANGE COUNTY LAFCO	PURCHASE	15,000.00	29-MAR-16	15,000.00	Reconciled
366144		22-MAR-16	CITY OF IRVINE	IRVINE 1	1,500.00	30-MAR-16	1,500.00	Reconciled
366145		22-MAR-16	JCI JONES CHEMICALS INC	CINCINNATI	2,734.10	25-MAR-16	2,734.10	Reconciled
366146		22-MAR-16	STATE BOARD OF EQUALIZATION	SACRAMENTO	2,514.00	30-MAR-16	2,514.00	Reconciled
366147		24-MAR-16	Compton, Christine A		380.00			Negotiable
366148		24-MAR-16	Bill, Cody (Cody)		105.00			Negotiable
366149		24-MAR-16	Crowe, David M (David)		140.38	29-MAR-16	140.38	Reconciled
366150		24-MAR-16	Reinhart, Douglas J		279.22	29-MAR-16	279.22	Reconciled
366151		24-MAR-16	Bonkowski, Leslie A (Leslie)		120.13	25-MAR-16	120.13	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All

Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 Account: Checking AP and PR Page: 22
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366152		24-MAR-16	Matheis, Mary Aileen		2,185.86			Negotiable
366153		24-MAR-16	Bennett, Ray R (Ray)		180.24	28-MAR-16	180.24	Reconciled
366154		24-MAR-16	LaMar, Steven E		1,830.44	28-MAR-16	1,830.44	Reconciled
366155		24-MAR-16	Pisal, Sudhir		51.84	28-MAR-16	51.84	Reconciled
366156		24-MAR-16	Bonkowski, Thomas J (Thomas)		27.11	25-MAR-16	27.11	Reconciled
366157		24-MAR-16	3M COMPANY		1,000.15			Negotiable
366158		24-MAR-16	ADS LLC		6,759.00	28-MAR-16	6,759.00	Reconciled
366159		24-MAR-16	AFLAC		343.34			Negotiable
366160		24-MAR-16	AFLAC		7,398.42			Negotiable
366161		24-MAR-16	ALCORN FENCE COMPANY		8,480.00	29-MAR-16	8,480.00	Reconciled
366162		24-MAR-16	ALEXANDER'S CONTRACT SERVICES, INC.		4,620.00	28-MAR-16	4,620.00	Reconciled
366163		24-MAR-16	ALLIANCE APPRAISAL, LLC		3,000.00	28-MAR-16	3,000.00	Reconciled
366164		24-MAR-16	ALPHA TRAFFIC SERVICES, INC.		570.00	28-MAR-16	570.00	Reconciled
366165		24-MAR-16	ANTHEM BLUE CROSS		1,006.40			Negotiable
366166		24-MAR-16	APCO GRAPHICS INC		108.00	28-MAR-16	108.00	Reconciled
366167		24-MAR-16	ARCHROCK SERVICES, L.P.		984.20	28-MAR-16	984.20	Reconciled
366168		24-MAR-16	ARIZONA INSTRUMENT LLC		168.94	28-MAR-16	168.94	Reconciled
366169		24-MAR-16	ASSOCIATION OF CALIFORNIA CITIES		5,000.00	30-MAR-16	5,000.00	Reconciled
366170		24-MAR-16	AT&T		7,795.88	29-MAR-16	7,795.88	Reconciled
366171		24-MAR-16	ATHENS SERVICES		8,028.06			Negotiable
366172		24-MAR-16	AUTOZONE PARTS, INC.		423.44	28-MAR-16	423.44	Reconciled
366173		24-MAR-16	BATTERIES PLUS AND BATTERIES PLUS		651.99	28-MAR-16	651.99	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
366174		24-MAR-16	BULBS BATTERY		4,187.40	29-MAR-16	4,187.40	Reconciled
366175		24-MAR-16	SPECIALTIES					
366176		24-MAR-16	BDC SPECIAL WASTE		207.20	28-MAR-16	207.20	Reconciled
366177		24-MAR-16	BIOQUIP PRODUCTS INC		1,333.97	29-MAR-16	1,333.97	Reconciled
366178		24-MAR-16	BLX GROUP LLC		2,250.00	28-MAR-16	2,250.00	Reconciled
366179		24-MAR-16	BOYD & ASSOCIATES		1,806.00	28-MAR-16	1,806.00	Reconciled
366180		24-MAR-16	BRITHINEE ELECTRIC		20,118.57	30-MAR-16	20,118.57	Reconciled
366181		24-MAR-16	BRITTANY APTS		163.42			Negotiable
		24-MAR-16	BROWN AND CALDWELL		17,230.42	30-MAR-16	17,230.42	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All

Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 Account: Checking AP and PR Page: 23
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366182		24-MAR-16	C WELLS PIPELINE MATERIALS INC		11,825.59			Negotiable
366183		24-MAR-16	C.H. BULL CO.		1,736.82			Negotiable
366184		24-MAR-16	CABELA'S MARKETING AND BRAND MANAGEMENT INC		1,709.05	28-MAR-16	1,709.05	Reconciled
366185		24-MAR-16	CALIFORNIA BANK & TRUST		22,487.92			Negotiable
366186		24-MAR-16	CALIFORNIA BARRICADE INC		5,187.50	29-MAR-16	5,187.50	Reconciled
366187		24-MAR-16	CANON FINANCIAL SERVICES, INC		9,617.97	28-MAR-16	9,617.97	Reconciled
366188		24-MAR-16	CHILLAR, RAM		155.97			Negotiable
366189		24-MAR-16	CITY OF NEWPORT BEACH		1,144.91			Negotiable
366190		24-MAR-16	CIVILSOURCE, INC.		14,798.00			Negotiable
366191		24-MAR-16	CNC ENGINEERING		4,970.00			Negotiable
366192		24-MAR-16	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,139.60			Negotiable
366193		24-MAR-16	COMMERCIAL COATING RESOURCE INC		2,113.00			Negotiable
366194		24-MAR-16	CONDITION MONITORING SERVICES INC		1,905.00	30-MAR-16	1,905.00	Reconciled
366195		24-MAR-16	CORRPRO COMPANIES INC		1,450.00	28-MAR-16	1,450.00	Reconciled
366196		24-MAR-16	COX COMMUNICATIONS, INC.		3,368.08	28-MAR-16	3,368.08	Reconciled
366197		24-MAR-16	CREATIVE ALLIANCE GROUP LLC		9,064.41	28-MAR-16	9,064.41	Reconciled
366198		24-MAR-16	CROCKER & CROCKER		975.35	29-MAR-16	975.35	Reconciled
366199		24-MAR-16	DELL MARKETING LP		656.04	28-MAR-16	656.04	Reconciled
366200		24-MAR-16	DICKSON, LOWELL		20.12			Negotiable
366201		24-MAR-16	DIRECTV INC		115.98	28-MAR-16	115.98	Reconciled
366202		24-MAR-16	DWYER INSTRUMENTS INC		493.80	28-MAR-16	493.80	Reconciled
366203		24-MAR-16	ELABRA INC		1,480.00	29-MAR-16	1,480.00	Reconciled
366204		24-MAR-16	ELITE EQUIPMENT, INC.		203.43	29-MAR-16	203.43	Reconciled
366205		24-MAR-16	EMERGENCY POWER CONTROLS INC		2,220.00			Negotiable
366206		24-MAR-16	ENVIRONMENTAL RESOURCE ASSOCIATES		154.96	29-MAR-16	154.96	Reconciled

IRWD Ledger
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All

Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 Account: Checking AP and PR Page: 24
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366207		24-MAR-16	EQUITY RESIDENTIAL		7,150.98			Negotiable
366208		24-MAR-16	ERP OPERATING LP		1,699.12			Negotiable
366209		24-MAR-16	EVANS-HYDRO INC		37,489.44			Negotiable
366210		24-MAR-16	EXECUTIVE LIGHTING & ELECTRIC		7,362.14	28-MAR-16	7,362.14	Reconciled
366211		24-MAR-16	FACILITYDUDE.COM		1,600.00	29-MAR-16	1,600.00	Reconciled
366212		24-MAR-16	FIRE EXTINGUISHING SAFETY & SERVICE		569.77	28-MAR-16	569.77	Reconciled
366213		24-MAR-16	FRANCHISE TAX BOARD		10.00			Negotiable
366214		24-MAR-16	FRANCHISE TAX BOARD		10.00			Negotiable
366215		24-MAR-16	GRAINGER		12,320.61			Negotiable
366216		24-MAR-16	GRAYBAR ELECTRIC COMPANY		20.00	28-MAR-16	20.00	Reconciled
366217		24-MAR-16	HABITAT		5,011.00	29-MAR-16	5,011.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
366218	24-MAR-16		RESTORATION SCIENCES, INC.		943.77	28-MAR-16	943.77	Reconciled
366219	24-MAR-16		HACH COMPANY		790.00			Negotiable
			HARMSWORTH ASSOCIATES					Negotiable
366220	24-MAR-16		HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		116.18			Negotiable
366221	24-MAR-16		HARVARD COURT APARTMENTS		1,878.05			Negotiable
366222	24-MAR-16		HDR ENGINEERING INC		38,547.23			Negotiable
366223	24-MAR-16		HELPMATES STAFFING SERVICES		9,311.77	28-MAR-16	9,311.77	Reconciled
366224	24-MAR-16		HERTZ EQUIPMENT RENTAL CORPORATION		2,289.50	29-MAR-16	2,289.50	Reconciled
366225	24-MAR-16		HILL BROTHERS CHEMICAL COMPANY		4,102.60	28-MAR-16	4,102.60	Reconciled
366226	24-MAR-16		HOME DEPOT USA INC		1,445.34	30-MAR-16	1,445.34	Reconciled
366227	24-MAR-16		HOPKINS TECHNICAL PRODUCTS INC		1,870.99	29-MAR-16	1,870.99	Reconciled
366228	24-MAR-16		HORIZON TECHNOLOGY INC		275.69	28-MAR-16	275.69	Reconciled
366229	24-MAR-16		IBM CORPORATION		3,821.00	28-MAR-16	3,821.00	Reconciled
366230	24-MAR-16		INFOSYS LIMITED		51,280.00			Negotiable
366231	24-MAR-16		IRVINE PIPE & SUPPLY INC		4,095.42	28-MAR-16	4,095.42	Reconciled
366232	24-MAR-16		JOE RHODES MAINT SERVICE INC		1,759.95	30-MAR-16	1,759.95	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 25
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366233	24-MAR-16		KAZARIANS & ASSOCIATES, INC.		650.00	29-MAR-16	650.00	Reconciled
366234	24-MAR-16		KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		3,120.00	30-MAR-16	3,120.00	Reconciled
366235	24-MAR-16		KLEINFELDER, INC.		39,594.07			Negotiable
366236	24-MAR-16		LAGUNA BEACH COUNTY WATER DISTRICT		5,342.28	29-MAR-16	5,342.28	Reconciled
366237	24-MAR-16		LANDCARE HOLDINGS, INC.		3,753.00	29-MAR-16	3,753.00	Reconciled
366238	24-MAR-16		LEWIS OPERATING CORP		800.00	28-MAR-16	800.00	Reconciled
366239	24-MAR-16		LIANG, ELISE C		45.66			Negotiable
366240	24-MAR-16		LUBRICATION ENGINEERS, INC.		540.29	28-MAR-16	540.29	Reconciled
366241	24-MAR-16		MARVIN GARDENS LLC		2,726.18	24-MAR-16	2,726.18	Reconciled
366242	24-MAR-16		MC FADDEN-DALE INDUSTRIAL		14.80	28-MAR-16	14.80	Reconciled
366243	24-MAR-16		MC MASTER CARR SUPPLY CO		2,308.11	28-MAR-16	2,308.11	Reconciled
366244	24-MAR-16		MCR TECHNOLOGIES INC		8,462.08			Negotiable
366245	24-MAR-16		MICHAEL BAKER INTERNATIONAL, INC.		319.08	28-MAR-16	319.08	Reconciled
366246	24-MAR-16		MOBILE MODULAR MANAGEMENT CORPORATION		972.00	28-MAR-16	972.00	Reconciled
366247	24-MAR-16		MORIARTY, JEAN		187.60			Negotiable
366248	24-MAR-16		MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		20,594.96	30-MAR-16	20,594.96	Reconciled
366249	24-MAR-16		MUTUAL PROPANE		70.04	28-MAR-16	70.04	Reconciled
366250	24-MAR-16		NAKAE & ASSOCIATES		2,148.24	28-MAR-16	2,148.24	Reconciled
366251	24-MAR-16		NATIONAL READY MIXED CONCRETE CO.		515.70	28-MAR-16	515.70	Reconciled
366252	24-MAR-16		NICHOLAS, BERNARD		924.95	28-MAR-16	924.95	Reconciled
366253	24-MAR-16		NINYO & MOORE		17,227.50	30-MAR-16	17,227.50	Reconciled
366254	24-MAR-16		OLIN CORPORATION		11,247.72			Negotiable
366255	24-MAR-16		ONESOURCE DISTRIBUTORS LLC		101.40	28-MAR-16	101.40	Reconciled
366256	24-MAR-16		ORANGE COUNTY AUTO PARTS CO		388.60	28-MAR-16	388.60	Reconciled
366257	24-MAR-16		ORANGE COUNTY FIRE AUTHORITY		360.80	29-MAR-16	360.80	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 26
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
----------------	--------------	------	---------------	------	----------------	--------------	----------------	--------

Payment Document : IRWD CHECK

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
366258	24-MAR-16	PACIFIC COAST BOLT CORP			1,946.18	29-MAR-16	1,946.18	Reconciled
366259	24-MAR-16	PACIFIC PARTS & CONTROLS INC			137.75	28-MAR-16	137.75	Reconciled
366260	24-MAR-16	PARKHOUSE TIRE INC			906.86	29-MAR-16	906.86	Reconciled
366261	24-MAR-16	PELLETIER & ASSOCIATES, INC.			765.00	28-MAR-16	765.00	Reconciled
366262	24-MAR-16	PERKINELMER HEALTH SCIENCES INC			727.64	28-MAR-16	727.64	Reconciled
366263	24-MAR-16	PIVOT INTERIORS INC			3,720.03	28-MAR-16	3,720.03	Reconciled
366264	24-MAR-16	POLLARDWATER.COM			816.48	28-MAR-16	816.48	Reconciled
366265	24-MAR-16	PRAXAIR DISTRIBUTION INC			1,762.01	29-MAR-16	1,762.01	Reconciled
366266	24-MAR-16	FRE-PAID LEGAL SERVICES INC			1,610.75			Negotiable
366267	24-MAR-16	PRO MOBILE AUTO DETAILING			550.00	29-MAR-16	550.00	Reconciled
366268	24-MAR-16	PTI SAND & GRAVEL INC			1,457.95	29-MAR-16	1,457.95	Reconciled
366269	24-MAR-16	QUINN COMPANY			236.86	28-MAR-16	236.86	Reconciled
366270	24-MAR-16	R & S SOIL PRODUCTS INC			842.40			Negotiable
366271	24-MAR-16	R&B AUTOMATION, INC.			15,672.62			Negotiable
366272	24-MAR-16	RAM AIR ENGINEERING INC			306.76	29-MAR-16	306.76	Reconciled
366273	24-MAR-16	RELIANCE SAFETY CONSULTANTS, INC.			1,657.50	29-MAR-16	1,657.50	Reconciled
366274	24-MAR-16	RESA POWER SOLUTIONS - TRANSFORMER SERVICES, LLC			7,650.00	28-MAR-16	7,650.00	Reconciled
366275	24-MAR-16	RITEMAY AUTO PAINT & BODYWORKS			400.00	28-MAR-16	400.00	Reconciled
366276	24-MAR-16	ROBERT E. BYRNE COMPANY			5,212.15	29-MAR-16	5,212.15	Reconciled
366277	24-MAR-16	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT			4,207.08	28-MAR-16	4,207.08	Reconciled
366278	24-MAR-16	RS HUGHES COMPANY, INC.			615.05	28-MAR-16	615.05	Reconciled
366279	24-MAR-16	SANTA ANA BLUE PRINT			332.91			Negotiable
366280	24-MAR-16	SEWARD, SCOTT B			285.82	28-MAR-16	285.82	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 27
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366281	24-MAR-16	SHAMROCK SUPPLY CO INC			3,693.60	28-MAR-16	3,693.60	Reconciled
366282	24-MAR-16	SOLARWINDS, INC			409.00	29-MAR-16	409.00	Reconciled
366283	24-MAR-16	SONOMA APTS			2.89			Negotiable
366284	24-MAR-16	SOUTHERN CALIFORNIA EDISON COMPANY			279,778.10	28-MAR-16	279,778.10	Reconciled
366285	24-MAR-16	SOUTHERN CALIFORNIA SECURITY CENTER, INC.			168.28			Negotiable
366286	24-MAR-16	SOUTHLAND WATER TECHNOLOGIES LLC			1,648.00	30-MAR-16	1,648.00	Reconciled
366287	24-MAR-16	STANFORD COURT APARTMENTS			12.80			Negotiable
366288	24-MAR-16	STANTEC CONSULTING SERVICES INC.			11,870.50			Negotiable
366289	24-MAR-16	TAYLOR MORRISON			1,390.48			Negotiable
366290	24-MAR-16	TEL SEC CONSULT, LLC			3,995.00	30-MAR-16	3,995.00	Reconciled
366291	24-MAR-16	THE GAS COMPANY			1,690.24			Negotiable
366292	24-MAR-16	THYSSENKRUPP ELEVATOR CORPORATION			179.64	28-MAR-16	179.64	Reconciled
366293	24-MAR-16	TIC-IPG-COMMON			1,167.42			Negotiable
366294	24-MAR-16	TIC-OFFICE PROPERTIES			2,270.08			Negotiable
366295	24-MAR-16	TITUS INDUSTRIAL GROUP, INC.			1,987.04			Negotiable
366296	24-MAR-16	TRI POINTE HOMES, INC.			12.48	29-MAR-16	12.48	Reconciled
366297	24-MAR-16	TROPICAL PLAZA NURSERY INC			1,348.00	28-MAR-16	1,348.00	Reconciled
366298	24-MAR-16	TRUCPARCO			1,418.68			Negotiable
366299	24-MAR-16	TYCO INTEGRATED SECURITY, LLC			847.50	30-MAR-16	847.50	Reconciled
366300	24-MAR-16	U.S. HEALTHWORKS			205.00	28-MAR-16	205.00	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
366301		24-MAR-16	MEDICAL GROUP, P.C.		1,043.88	29-MAR-16	1,043.88	Reconciled
366302		24-MAR-16	ULTRA SCIENTIFIC		57.79	28-MAR-16	57.79	Reconciled
366303		24-MAR-16	SERVICE INC UNITED SITE SERVICES OF CALIFORNIA INC		478.25	30-MAR-16	478.25	Reconciled

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 28
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366304		24-MAR-16	UNITED WAY OF ORANGE COUNTY		540.00	30-MAR-16	540.00	Reconciled
366305		24-MAR-16	UNIVAR USA INC		8,498.96	29-MAR-16	8,498.96	Reconciled
366306		24-MAR-16	USA BLUEBOOK		5,008.91			Negotiable
366307		24-MAR-16	VCS ENVIRONMENTAL		788.75	30-MAR-16	788.75	Reconciled
366308		24-MAR-16	VERIZON CALIFORNIA INC		422.40	28-MAR-16	422.40	Reconciled
366309		24-MAR-16	VILLA CORONADO APTS		1,870.78	30-MAR-16	1,870.78	Reconciled
366310		24-MAR-16	VWR INTERNATIONAL, LLC		704.61	28-MAR-16	704.61	Reconciled
366311		24-MAR-16	WACO FILTERS CORPORATION		8,798.16	28-MAR-16	8,798.16	Reconciled
366312		24-MAR-16	WALTERS WHOLESALE ELECTRIC		1,145.66	29-MAR-16	1,145.66	Reconciled
366313		24-MAR-16	WALTON MOTORS & CONTROLS INC		4,658.71	28-MAR-16	4,658.71	Reconciled
366314		24-MAR-16	WATERSMART SOFTWARE, INC		17,974.42			Negotiable
366315		24-MAR-16	WATKINS, KEN		285.01			Negotiable
366316		24-MAR-16	WAXIE'S ENTERPRISES, INC		1,182.59	28-MAR-16	1,182.59	Reconciled
366317		24-MAR-16	WEST COAST SAFETY SUPPLY INC		3,285.46			Negotiable
366318		24-MAR-16	WESTERN AV		5,934.20	29-MAR-16	5,934.20	Reconciled
366319		24-MAR-16	WILMINGTON INSTRUMENT COMPANY INC		6,434.08	28-MAR-16	6,434.08	Reconciled
366320		24-MAR-16	WOODBIDGE VILLAS		44.32			Negotiable
366321		24-MAR-16	WOODRUFF, SPRADLIN & SMART APC		7,002.00	29-MAR-16	7,002.00	Reconciled
366322		24-MAR-16	ZEE MEDICAL SERVICE CO		850.34	28-MAR-16	850.34	Reconciled
366323		24-MAR-16	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	1,570.00	28-MAR-16	1,570.00	Reconciled
366324		29-MAR-16	JCI JONES CHEMICALS INC	CINCINNATI	6,319.24			Negotiable
366325		29-MAR-16	CITY OF ORANGE	LOS ANGELES	141.65	30-MAR-16	141.65	Reconciled
366326		31-MAR-16	3M COMPANY		423.20			Negotiable
366327		31-MAR-16	AIRGAS, INC.		907.98			Negotiable
366328		31-MAR-16	AM CONSERVATION GROUP, INC.		301.80			Negotiable
366329		31-MAR-16	ARC-ZONE.COM, INC		275.10			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 29
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366330		31-MAR-16	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		30,000.00			Negotiable
366331		31-MAR-16	AT&T		50.84			Negotiable
366332		31-MAR-16	AT&T		248.44			Negotiable
366333		31-MAR-16	BATTERY SPECIALTIES		1,543.40			Negotiable
366334		31-MAR-16	BICKMORE RISK SERVICES		2,250.00			Negotiable
366335		31-MAR-16	BILL'S SWEEPING SERVICE INC		1,006.25			Negotiable
366336		31-MAR-16	BIOMAGIC INC		14,262.91			Negotiable
366337		31-MAR-16	BROOKFIELD RESIDENTIAL		104.92			Negotiable
366338		31-MAR-16	BRUCE NEWELL		1,316.00			Negotiable
366339		31-MAR-16	CALIFORNIA BARRICADE INC		3,325.00			Negotiable
366340		31-MAR-16	CANON SOLUTIONS AMERICA, INC.		407.01			Negotiable
366341		31-MAR-16	CARDIAC SCIENCE		7,742.00			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
			CORPORATION					
366342	31-MAR-16		CITY OF ORANGE		142.50			Negotiable
366343	31-MAR-16		CIVILSOURCE, INC.		15,043.00			Negotiable
366344	31-MAR-16		CLEARINGHOUSE		477.67			Negotiable
366345	31-MAR-16		COMMERCIAL COATING RESOURCE INC		6,875.00			Negotiable
366346	31-MAR-16		CONTROLLED MOTION SOLUTIONS, INC		509.99			Negotiable
366347	31-MAR-16		COX COMMUNICATIONS, INC.		102.45			Negotiable
366348	31-MAR-16		DEACON, JANET		4,138.64			Negotiable
366349	31-MAR-16		DELL MARKETING LP		2,134.28			Negotiable
366350	31-MAR-16		DIRECTV INC		113.55			Negotiable
366351	31-MAR-16		DIXIT, ANANT		550.00			Negotiable
366352	31-MAR-16		DMS FACILITY SERVICES, INC.		16,516.93			Negotiable
366353	31-MAR-16		ENTERPRISE INFORMATION SYSTEMS, INC.		625.00			Negotiable
366354	31-MAR-16		ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		4,680.00			Negotiable
366355	31-MAR-16		EVANS-HYDRO INC		36,718.51			Negotiable
366356	31-MAR-16		EVANTEC CORPORATION		3,780.02			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 30
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366357	31-MAR-16		EXECUTIVE LIGHTING & ELECTRIC		3,067.72			Negotiable
366358	31-MAR-16		FALLON, RICHARD A		1,200.68			Negotiable
366359	31-MAR-16		FEDEX		349.19			Negotiable
366360	31-MAR-16		FIRST CHOICE SERVICES		928.71			Negotiable
366361	31-MAR-16		FISERV		295.50			Negotiable
366362	31-MAR-16		FISHER SCIENTIFIC COMPANY LLC		3,530.43			Negotiable
366363	31-MAR-16		FLUID CONSERVATION SYSTEMS INC		194.58			Negotiable
366364	31-MAR-16		FRANCHISE TAX BOARD		190.82			Negotiable
366365	31-MAR-16		GAIGE, CLINT E		7.95			Negotiable
366366	31-MAR-16		GARZA INDUSTRIES, INC		1,295.57			Negotiable
366367	31-MAR-16		GENTERRA CONSULTANTS INC		2,194.50			Negotiable
366368	31-MAR-16		GRAINGER		2,946.80			Negotiable
366369	31-MAR-16		GRAINGER		2,057.71			Negotiable
366370	31-MAR-16		GRAYBAR ELECTRIC COMPANY		3,545.25			Negotiable
366371	31-MAR-16		H2O INNOVATION USA INC		3,299.40			Negotiable
366372	31-MAR-16		HACH COMPANY		1,271.86			Negotiable
366373	31-MAR-16		HARTMAN, CHRIS		77.32			Negotiable
366374	31-MAR-16		HDR ENGINEERING INC		28,418.76			Negotiable
366375	31-MAR-16		HEDDON, MELISSA		312.76			Negotiable
366376	31-MAR-16		HELPMATES STAFFING SERVICES		18,541.89			Negotiable
366377	31-MAR-16		HILL BROTHERS CHEMICAL COMPANY		5,287.95			Negotiable
366378	31-MAR-16		HOME DEPOT USA INC		793.33			Negotiable
366379	31-MAR-16		HURST, RAYMOND E		966.52			Negotiable
366380	31-MAR-16		HYDRO-SCAPE PRODUCTS INC		452.59			Negotiable
366381	31-MAR-16		IDEXX DISTRIBUTION, INC		1,383.49			Negotiable
366382	31-MAR-16		INDUSTRIAL ELECTRIC MACHINERY LLC		466.08			Negotiable
366383	31-MAR-16		INDUSTRIAL METAL SUPPLY CO		1,091.95			Negotiable
366384	31-MAR-16		IRVINE COMPANY		726.08			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 31
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366385	31-MAR-16		IRVINE PIPE & SUPPLY INC		1,637.65			Negotiable

366386	31-MAR-16	IRWD EMPLOYEE ASSOCIATION	870.00	Negotiable
366387	31-MAR-16	IRWD-PETTY CASH CUSTODIAN	1,569.18	Negotiable
366388	31-MAR-16	JOHNSTONE SUPPLY	429.56	Negotiable
366389	31-MAR-16	KAO, ROGER	56.36	Negotiable
366390	31-MAR-16	KENT & AMY DAHLBERG	6,492.75	Negotiable
366391	31-MAR-16	KONOVALOV, ALEKSEY	43.25	Voided
366392	31-MAR-16	KOREAN CULTURAL CENTER	2,500.00	Negotiable
366393	31-MAR-16	KUNG, SOPHIE	703.59	Negotiable
366394	31-MAR-16	LAGUNA BEACH COUNTY WATER DISTRICT	4,514.32	Negotiable
366395	31-MAR-16	LIGHTING RESOURCES, LLC	7,000.10	Negotiable
366396	31-MAR-16	LUBRICATION ENGINEERS, INC.	841.32	Negotiable
366397	31-MAR-16	MARINA LANDSCAPE MAINTENANCE, INC.	396.90	Negotiable
366398	31-MAR-16	MARK ENTERPRISES, INC.	1,350.00	Negotiable
366399	31-MAR-16	MC MASTER CARR SUPPLY CO	1,442.06	Negotiable
366400	31-MAR-16	MSC INDUSTRIAL SUPPLY CO	1,704.22	Negotiable
366401	31-MAR-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	135,118.70	Negotiable
366402	31-MAR-16	NATIONAL READY MIXED CONCRETE CO.	1,362.00	Negotiable
366403	31-MAR-16	NOVACOST INC	2,712.50	Negotiable
366404	31-MAR-16	O'HAREN GOVERNMENT RELATIONS	6,500.00	Negotiable
366405	31-MAR-16	OLIN CORPORATION	5,702.89	Negotiable
366406	31-MAR-16	ONESOURCE DISTRIBUTORS LLC	1,233.11	Negotiable
366407	31-MAR-16	ORANGE COUNTY FIRE AUTHORITY	2,549.00	Negotiable
366408	31-MAR-16	ORANGE COUNTY SHERIFF'S OFFICE	62.50	Negotiable
366409	31-MAR-16	PAULUS ENGINEERING INC	97,154.04	Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 32
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366410		31-MAR-16	PAYNE & FEARS LLP		3,372.30			Negotiable
366411		31-MAR-16	PELICAN HEIGHTS HOA		406.68			Negotiable
366412		31-MAR-16	PENHALL COMPANY		653.40			Negotiable
366413		31-MAR-16	PERS LONG TERM CARE		771.11			Negotiable
366414		31-MAR-16	PIVOT INTERIORS INC		230.67			Negotiable
366415		31-MAR-16	POLLARDWATER.COM		192.59			Negotiable
366416		31-MAR-16	PRAXAIR DISTRIBUTION INC		933.43			Negotiable
366417		31-MAR-16	PURCELL, RITA		1,279.80			Negotiable
366418		31-MAR-16	QUAIL RIDGE APARTMENTS		1,949.41			Negotiable
366419		31-MAR-16	QUICK MANUFACTURING INC		2,062.00			Negotiable
366420		31-MAR-16	QUICKEL PAVING INC		475.00			Negotiable
366421		31-MAR-16	RAM AIR ENGINEERING INC		2,266.17			Negotiable
366422		31-MAR-16	RECALDE, CARLOS		1,099.43			Negotiable
366423		31-MAR-16	RED WING SHOES		400.00			Negotiable
366424		31-MAR-16	RICHARD C. SLADE & ASSOCIATES LLC		11,537.00			Negotiable
366425		31-MAR-16	RMC WATER AND ENVIRONMENT		4,320.18			Negotiable
366426		31-MAR-16	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		76,789.76			Negotiable
366427		31-MAR-16	SACKSTEIN, EVAN		14.83			Negotiable
366428		31-MAR-16	SHAMROCK SUPPLY CO INC		1,967.85			Negotiable
366429		31-MAR-16	SITMATIC		650.47			Negotiable
366430		31-MAR-16	SOLARWINDS, INC		5,086.80			Negotiable
366431		31-MAR-16	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		1,201.14			Negotiable
366432		31-MAR-16	SOUTH COAST ANSWERING SERVICE		401.99			Negotiable
366433		31-MAR-16	SOUTHERN CALIFORNIA EDISON		4,315.25			Negotiable

366434 31-MAR-16 COMPANY SOUTHLAND WATER TECHNOLOGIES LLC 679.20 Negotiable
 366435 31-MAR-16 STANDARD REGISTER, INC. 2,578.99 Negotiable
 366436 31-MAR-16 STICE COMPANY INC 1,271.80 Negotiable
 IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 33
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366437		31-MAR-16	TETRA TECH, INC		3,950.00			Negotiable
366438		31-MAR-16	THE CAPITAL GROUP COMPANIES		348.01			Negotiable
366439		31-MAR-16	TRENCH SHORING COMPANY		413.96			Negotiable
366440		31-MAR-16	TROPICAL PLAZA NURSERY INC		7,907.90			Negotiable
366441		31-MAR-16	TYCO INTEGRATED SECURITY, LLC		2,598.52			Negotiable
366442		31-MAR-16	ULTRA SCIENTIFIC		118.38			Negotiable
366443		31-MAR-16	UNITED PARCEL SERVICE INC		102.42			Negotiable
366444		31-MAR-16	UNITED SITE SERVICES OF CALIFORNIA INC		152.31			Negotiable
366445		31-MAR-16	URS CORPORATION		14,367.50			Negotiable
366446		31-MAR-16	US BANK NAT'L ASSOCIATION NORTH DAKOTA		95,840.23			Negotiable
366447		31-MAR-16	VAUGHAN'S INDUSTRIAL REPAIR CO INC		11,884.42			Negotiable
366448		31-MAR-16	VCS ENVIRONMENTAL		2,487.50			Negotiable
366449		31-MAR-16	VERIZON CALIFORNIA INC		100.90			Negotiable
366450		31-MAR-16	VERIZON WIRELESS SERVICES LLC		6,576.27			Negotiable
366451		31-MAR-16	VESTAR/KIMCO TUSTIN L.P.		7,600.00			Negotiable
366452		31-MAR-16	VHG LABS, INC		131.00			Negotiable
366453		31-MAR-16	WALTERS WHOLESALE ELECTRIC		3,183.32			Negotiable
366454		31-MAR-16	WATERWISE CONSULTING, INC.		28,650.00			Negotiable
366455		31-MAR-16	WECK LABORATORIES INC		230.00			Negotiable
366456		31-MAR-16	WESTAMERICA COMMUNICATIONS, INC.		2,971.49			Negotiable
366457		31-MAR-16	YORK INSURANCE SERVICES GROUP INC - CA		7,936.25			Negotiable
366458		31-MAR-16	YORKE ENGINEERING LLC		6,973.39			Negotiable
366459		31-MAR-16	HUMANA INSURANCE COMPANY	PAY	129.10			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 34
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
366460		31-MAR-16	SANTIAGO AQUEDUCT PAY COMMISSION		6,431.39			Negotiable
366461		31-MAR-16	Compton, Christine A		135.99			Negotiable
366462		31-MAR-16	Legault, Dan (Dan)		750.00			Negotiable
366463		31-MAR-16	Nash, Joel		169.56			Negotiable
366464		31-MAR-16	Pfister, Ken D (Ken)		32.03			Negotiable
366465		31-MAR-16	Ruiz, Ricky (Ricky)		80.89			Negotiable

Payment Document Subtotal: 8,669,135.73 7,337,945.96

Payment Document : IRWD Wire

11422		02-MAR-16	YORK INSURANCE SERVICES GROUP INC - CA	PAY	7,276.06			Negotiable
11423		02-MAR-16	YORK INSURANCE SERVICES GROUP INC	PAY	9,974.24			Negotiable

11424	04-MAR-16	- CA INTERNAL REVENUE SERVICE	FRESNO	175,489.48	Negotiable
11425	04-MAR-16	FRANCHISE TAX BOARD	SACRAMENTO	47,546.67	Negotiable
11426	07-MAR-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	6,250.00	Negotiable
11427	07-MAR-16	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	1,070,874.98	Negotiable
11428	07-MAR-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	729.17	Negotiable
11429	07-MAR-16	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	1,342.17	Negotiable
11430	07-MAR-16	FILANC-BALFOUR BEATTY JV	ACT 4427724347	2,837,166.40	Negotiable
11431	07-MAR-16	FILANC-BALFOUR BEATTY JV	ESR 211084000	323,649.53	Negotiable
11432	08-MAR-16	YORK INSURANCE SERVICES GROUP INC	PAY	7,074.76	Negotiable
11433	08-MAR-16	- CA EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	11,053.86	Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 35
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11434		08-MAR-16	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable
11435		08-MAR-16	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,406.91			Negotiable
11436		08-MAR-16	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	105,461.48			Negotiable
11437		08-MAR-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,393.85			Negotiable
11438		08-MAR-16	BANK OF AMERICA	SAN FRANCISCO	515.04			Negotiable
11439		08-MAR-16	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,403.37			Negotiable
11440		08-MAR-16	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	95.87			Negotiable
11441		08-MAR-16	U.S. BANK NATIONAL ASSOCIATION	PAY	515.04			Negotiable
11442		15-MAR-16	U.S. BANK NATIONAL ASSOCIATION	ST. LOUIS	9,502.59			Negotiable
11443		16-MAR-16	YORK INSURANCE SERVICES GROUP INC	PAY	10,383.95			Negotiable
11444		18-MAR-16	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	FOUNTAIN VALLEY	675,862.67			Negotiable
11445		18-MAR-16	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	809,177.66			Negotiable
11446		18-MAR-16	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	809,177.38			Negotiable
11447		18-MAR-16	CALPERS	SACRAMENTO	87,468.30			Negotiable
11448		18-MAR-16	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	274.15			Negotiable
11449		18-MAR-16	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	415.98			Negotiable
11450		18-MAR-16	PCL CONSTRUCTION, INC.	ACCT 6971821722	1,577,665.80			Negotiable
11451		18-MAR-16	PCL CONSTRUCTION, INC.	ESR 141511.1	175,296.20			Negotiable

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 36
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11452		21-MAR-16	INTERNAL REVENUE SERVICE	FRESNO	171,868.62			Negotiable
11453		21-MAR-16	FRANCHISE TAX	SACRAMENTO	46,444.34			Negotiable

11454	21-MAR-16	BOARD EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	11,007.51	Negotiable
11455	21-MAR-16	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77	Negotiable
11456	22-MAR-16	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,706.91	Negotiable
11457	22-MAR-16	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,913.66	Negotiable
11458	22-MAR-16	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	107,039.75	Negotiable
11459	22-MAR-16	YORK INSURANCE SERVICES GROUP INC - CA	PAY	14,537.63	Negotiable
11460	22-MAR-16	CALPERS	SACRAMENTO	88,118.80	Negotiable
11461	28-MAR-16	HOWELLS, CHRISTY	NEWPORT BEACH	24.18	Negotiable
11462	29-MAR-16	YORK INSURANCE SERVICES GROUP INC - CA	PAY	14,604.92	Negotiable
11463	30-MAR-16	INTERNAL REVENUE SERVICE	FRESNO	2,925.34	Negotiable
11464	30-MAR-16	FRANCHISE TAX BOARD	SACRAMENTO	888.81	Negotiable
11465	30-MAR-16	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	117.77	Negotiable
11466	31-MAR-16	FORESITE ESCROW, INC.	PURCHASE	9,947,535.43	Negotiable

Payment Document Subtotal: 19,195,178.77

Bank Account Subtotal : 27,864,314.50 Disbursements 7,337,945.96

Report Count : 903 Report Total: 27,864,314.50 7,337,945.96

IRWD Ledger Payment Register For 01-MAR-16 To 31-MAR-16 Report Date: 01-APR-2016 15:46
 BANK: Branch : Account: Page: 37
 Bank Account Currency: () Payment Currency: ()
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
----------------	--------------	------	---------------	------	----------------	--------------	----------------	--------

*** End of Report ***

\$ 27,864,314.50 Disbursements
 <8,413.22> Voids
 \$ 27,855,901.28 Total Voids and Disbursements

IRWD Gov Code 53065.5 Disclosure Report

Exhibit "E"

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received.

01-MAR-16 to 31-MAR-16

NAME	CHECK NO.	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Bennett, Ray	365964	17-Mar-16	165.24	Mileage	Monthly Rosedale Drought Relief Project - (February)
Bennett, Ray	365964	17-Mar-16	173.65	Mileage	Monthly Rosedale Drought Relief Project - (January)
Bennett, Ray	366153	24-Mar-16	165.24	Mileage	Monthly Rosedale Drought Relief Project - (March)
Bonkowski, Leslie	366151	24-Mar-16	120.13	Other(Misc)	Meeting supplies
Compton, Christine	366147	24-Mar-16	380.00	Other(Misc)	State Bar of California licensee fee
Crowe, David	366149	24-Mar-16	140.38	Other(Misc)	Wireless case reimbursement
Garza, Gaspar	365779	10-Mar-16	141.69	Other(Misc)	Wireless case reimbursement
Hayden, Dave	365959	17-Mar-16	130.00	Membership/Certification	SARBS Annual Awards Banquet and Board Installation
Kanoff, Debbie	365777	10-Mar-16	256.82	Lodging	PARMA 42nd Annual Conf., Indian Wells, CA - Feb. 23-26, 2016
Kanoff, Debbie	365777	10-Mar-16	256.82	Lodging	PARMA 42nd Annual Conf., Indian Wells, CA - Feb. 23-26, 2016
Kanoff, Debbie	365777	10-Mar-16	118.96	Mileage	PARMA 42nd Annual Conf., Indian Wells, CA - Feb. 23-26, 2016
LaMar, Steven	366154	24-Mar-16	353.22	Lodging	ACWA Washington D.C. Conference, Feb. 22-25, 2016
LaMar, Steven	366154	24-Mar-16	353.22	Lodging	ACWA Washington D.C. Conference, Feb. 22-25, 2016
LaMar, Steven	366154	24-Mar-16	353.22	Lodging	ACWA Washington D.C. Conference, Feb. 22-25, 2016
LaMar, Steven	366154	24-Mar-16	137.08	Lodging	ACWA Federal Legislative Affairs and Board meeting, Sacramento, Jan. 27-29, 2016
Lao, Richard	365965	17-Mar-16	129.00	Membership/Certification	CWEA membership renewal
Legault, Dan	366462	31-Mar-16	255.50	Other(Misc)	Annual tool expense reimbursement
Legault, Dan	366462	31-Mar-16	217.08	Other(Misc)	Annual tool expense reimbursement
Legault, Dan	366462	31-Mar-16	166.85	Other(Misc)	Annual tool expense reimbursement
Leonard, Josh	365781	10-Mar-16	118.51	Other(Misc)	Wireless case reimbursement
Matheis, Mary Aileen	366152	24-Mar-16	178.46	Lodging	UWI Annual Spring Conf., Palm Springs, CA Feb. 10-12, 2016
Matheis, Mary Aileen	366152	24-Mar-16	100.44	Mileage	UWI Annual Spring Conf., Palm Springs, CA Feb. 10-12, 2016
Matheis, Mary Aileen	366152	24-Mar-16	714.20	Airfare	ACWA Washington D.C. Conference, Feb. 21-25, 2016
Matheis, Mary Aileen	366152	24-Mar-16	354.22	Lodging	ACWA Washington D.C. Conference, Feb. 21-25, 2016
Matheis, Mary Aileen	366152	24-Mar-16	354.22	Lodging	ACWA Washington D.C. Conference, Feb. 21-25, 2016
Matheis, Mary Aileen	366152	24-Mar-16	354.22	Lodging	ACWA Washington D.C. Conference, Feb. 21-25, 2016
Mossbarger, Tony	365776	10-Mar-16	264.54	Lodging	Oracle CAB-User Group Conference, Phoenix, AZ March 1-3, 2016
Mossbarger, Tony	365776	10-Mar-16	264.54	Lodging	Oracle CAB-User Group Conference, Phoenix, AZ March 1-3, 2016
Mossbarger, Tony	365776	10-Mar-16	264.54	Lodging	Oracle CAB-User Group Conference, Phoenix, AZ March 1-3, 2016
Murphy, Alexander	365608	3-Mar-16	645.00	Other(Misc)	Membership renewal
Nelson, Mark	365962	17-Mar-16	699.00	Membership/Certification	Reverse Osmosis Water Treatment training certification
Oldewage, Lars	365614	3-Mar-16	255.00	Membership/Certification	AWWA membership renewal
Pulles, Margaret	365784	10-Mar-16	234.08	Other(Misc)	Meeting supplies
Reinhart, Doug	366150	24-Mar-16	174.46	Lodging	UWI Annual Spring Conf., Palm Springs, CA Feb. 10-12, 2016
Reinhart, Doug	366150	24-Mar-16	104.76	Mileage	UWI Annual Spring Conf., Palm Springs, CA Feb. 10-12, 2016
Sidlin, Wayne	365787	10-Mar-16	440.00	Membership/Certification	Recycling Plant Operator Grade V test fee
Sidlin, Wayne	365787	10-Mar-16	340.00	Membership/Certification	Recycling Plant Operator Grade V certification
Stontz, Adam	365957	17-Mar-16	478.00	Registration Fees	CWEA Annual Pretreatment, Pollution Prevention Conf., Riverside, CA Mar. 1, 2016
Swan, Peer	365954	15-Mar-16	109.08	Mileage	UWI Annual Spring Conf., Palm Springs, CA Feb. 10-12, 2016
Swan, Peer	365954	15-Mar-16	192.78	Mileage	Palo Verde Irrigation District and tour of PVID area, Feb 12, 2016
Swan, Peer	365954	15-Mar-16	1,174.96	Airfare	CASA Washington DC Conference, Feb. 21-25, 2016
Swan, Peer	365954	15-Mar-16	353.81	Lodging	CASA Washington DC Conference, Feb. 21-25, 2016
Swan, Peer	365954	15-Mar-16	353.81	Lodging	CASA Washington DC Conference, Feb. 21-25, 2016
Swan, Peer	365954	15-Mar-16	353.81	Lodging	CASA Washington DC Conference, Feb. 21-25, 2016
Torres, Richard	365786	10-Mar-16	164.00	Membership/Certification	CWEA membership and Collections Grade II certificate renewal
Total Amount:			\$13,054.54		

April 25, 2016

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton *KB*

Approved by: Paul Cook *Paul Cook*

CONSENT CALENDAR

REIMBURSEMENT AGREEMENT BETWEEN IRWD AND THE CITY OF IRVINE FOR
INSTALLATION AND ADJUSTMENT OF IRWD FACILITIES TO GRADE

SUMMARY:

The City of Irvine (City) is proceeding with its annual slurry seal and pavement rehabilitation project for miscellaneous areas throughout the City. This project requires a Reimbursement Agreement (RA) since the estimated construction cost is over \$100,000. Staff recommends that the Board authorize the General Manager to execute a RA with the City for its Annual Slurry Seal and Pavement Rehabilitation Project.

BACKGROUND:

IRWD has had a RA in place with the City since 1995 for managing various street rehabilitation projects. Typically included in the City's Capital Improvement Projects are alternate bid items for raising existing IRWD sewer manhole covers, sewer cleanouts, and water valve frames and lids to the new pavement grade. Any project up to \$100,000 in reimbursable costs can be authorized by the General Manager as an addendum to this "umbrella" RA.

IRWD and the City have also agreed that any City street improvement project which involves the construction, modification or relocation of IRWD facilities with an estimated construction cost over \$100,000 will be administered through a separate RA. The City's Annual Slurry Seal and Street Rehabilitation Project has an estimated construction cost of \$686,400 and, therefore, requires a project-specific RA.

The project focuses on Irvine villages of Woodbury, Quail Hill and Turtle Rock. Approximately 650 domestic and 70 recycled water valve frames and lids, 25 sewer cleanouts, and 355 sewer manholes will be installed or adjusted to new pavement grade. A Vicinity Map is attached as Exhibit "A", the Engineer's Estimate as Exhibit "B", and the RA as Exhibit "C". The RA has been reviewed by IRWD's legal counsel.

FISCAL IMPACTS:

Staff anticipates receiving invoices from the City in late January 2017. Projects 5298, 5302, and 5305 will be included in the FY 2016-17 Capital Budget as shown in the table below.

Project No.	Current Budget	Addition <Reduction>	Total Budget
5298	\$-0-	\$577,500	\$577,500
5302	\$-0-	\$346,500	\$346,500
5305	\$-0-	\$138,600	\$138,600
Total	\$-0-	\$1,062,600	\$1,062,600

ENVIRONMENTAL COMPLIANCE:

These projects are exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3). The activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

In addition, projects referenced in these agreements are exempt from CEQA as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15302 C, which provides exemption for projects that involve replacement or reconstruction of existing structures and facilities where the new structure will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

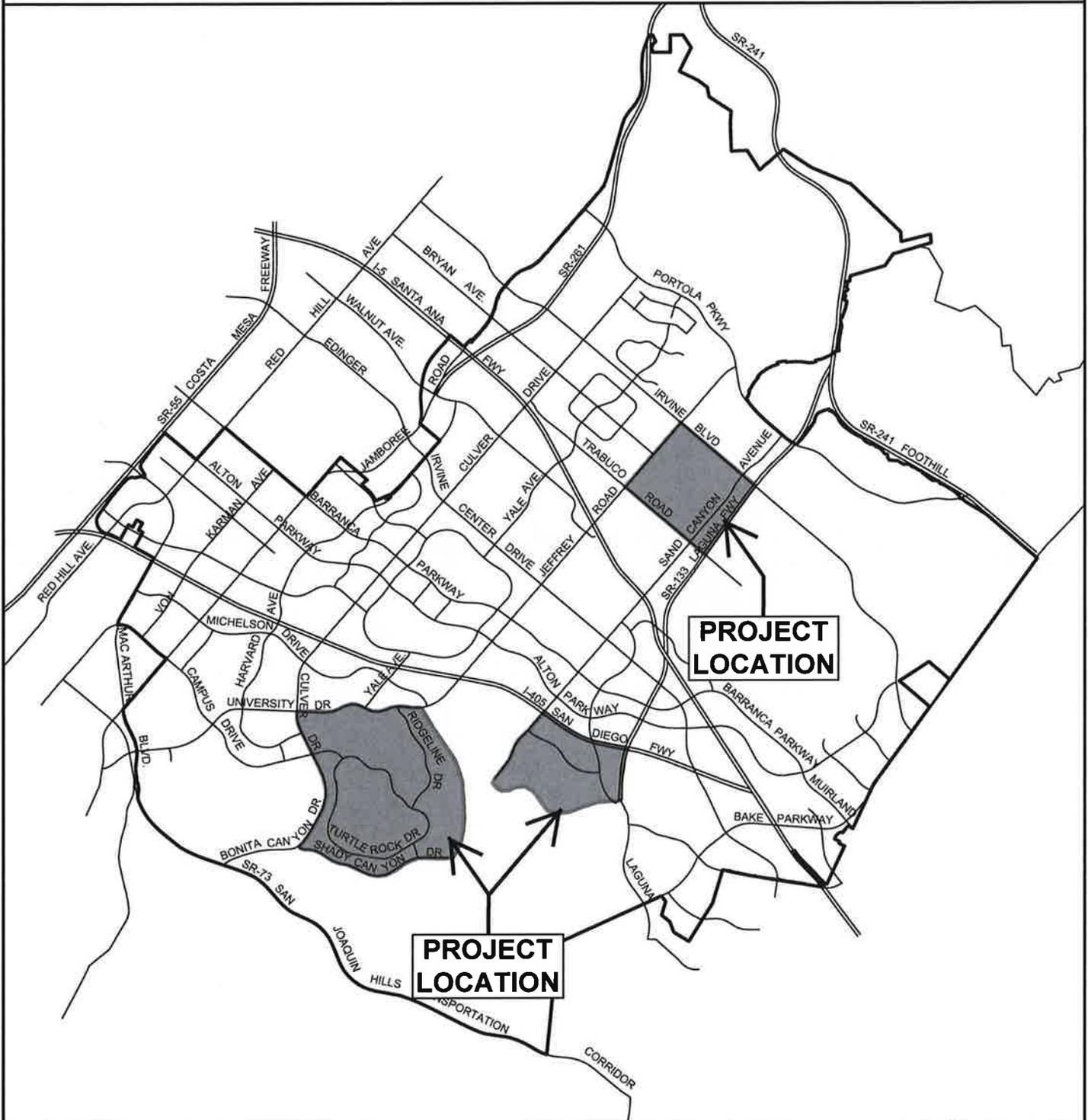
THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A REIMBURSEMENT AGREEMENT WITH THE CITY OF IRVINE FOR ITS ANNUAL SLURRY SEAL AND PAVEMENT REHABILITATION PROJECT.

LIST OF EXHIBITS:

- Exhibit "A" – Vicinity Map
- Exhibit "B" – Engineer's Estimate
- Exhibit "C" – Reimbursement Agreement

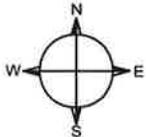
EXHIBIT "A"

STREET REHABILITATION AND SLURRY SEAL PROJECT



PROJECT LOCATION

PROJECT LOCATION



VICINITY MAP



EXHIBIT "B"

REIMBURSEMENT AGREEMENT BETWEEN IRVINE RANCH WATER DISTRICT (IRWD)
AND THE CITY OF IRVINE
FOR
STREET REHABILITATION AND SLURRY SEAL, BID NO. 16-1010

ENGINEER'S ESTIMATE

ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT COST	EXTENDED AMOUNT
A-1	INSTALL NEW IRWD WATER VALVE FRAME AND COVER TO GRADE	650	EA	\$ 600.00	\$ 390,000.00
A-2	INSTALL NEW IRWD RECLAIM WATER VALVE FRAME AND COVER TO GRADE	70	EA	\$ 600.00	\$ 42,000.00
A-3	INSTALL NEW IRWD SEWER CLEANOUT FRAME AND COVER TO GRADE	25	EA	\$ 600.00	\$ 15,000.00
A-4	ADJUST EXISTING IRWD SEWER MANHOLE FRAME AND COVER TO GRADE	355	EA	\$ 600.00	\$ 213,000.00
TOTAL CONSTRUCTION ESTIMATE					\$ 660,000.00
4% ADMINISTRATION FEE PER SECTION 5 OF AGREEMENT					\$ 26,400.00
TOTAL COSTS					\$ 686,400.00

EXHIBIT "C"

File No.

REIMBURSEMENT AGREEMENT BETWEEN
IRVINE RANCH WATER DISTRICT
AND THE CITY OF IRVINE
FOR
INSTALLATION AND ADJUSTMENT OF STREET UTILITIES TO GRADE FOR
STREET REHABILITATION AND SLURRY SEAL PROJECT
BID NO. 16-1010

This Agreement is made and entered into as of this ____ day of _____, 2016, by and between IRVINE RANCH WATER DISTRICT, a California water district formed and existing pursuant to the California Water District Law, hereinafter referred to as "DISTRICT," and the CITY OF IRVINE, a municipal corporation, hereinafter referred to as "CITY."

W I T N E S S E T H:

WHEREAS, CITY proposes to construct street and utility improvements within the Turtle Rock, Quail Hill and Woodbury communities for the Street Rehabilitation and Slurry Seal Project, Bid No. 16-1010 (the "Project"), within the jurisdictional boundaries of DISTRICT and the City of Irvine; and

WHEREAS, such construction will necessitate the installation or adjustment to grade of approximately 650 Water Valves, approximately 70 Recycled Water Valves, approximately 25 Sewer Cleanouts and approximately 355 Sewer Manholes, as depicted on Exhibit "A" attached hereto incorporated by reference herein (hereinafter referred to as the "IRWD FACILITIES"); and

WHEREAS, the parties have determined that it would be more expedient for CITY to construct the IRWD FACILITIES rather than for DISTRICT to do so; and

WHEREAS, DISTRICT is amenable to the CITY constructing the IRWD FACILITIES with the CITY agreeing to advance the costs; and

WHEREAS, DISTRICT agrees to fully reimburse the CITY through payments billed by the CITY and approved by DISTRICT for the entire cost of the IRWD FACILITIES; and

WHEREAS, except as otherwise provided herein, upon the completion of the IRWD FACILITIES, the IRWD FACILITIES shall become the property of DISTRICT in accordance with the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the mutual promises and covenants hereinafter set forth, the parties hereto agree as follows:

SECTION 1. IRWD FACILITIES. In conjunction with the Project, CITY agrees to initiate and pursue to completion the design and construction of the IRWD FACILITIES.

SECTION 2. PLANS. CITY agrees that the IRWD FACILITIES shall be completed pursuant to approved project plans and specifications (the "Plans and Specifications") which shall be approved by DISTRICT and used in awarding the construction contract. Prior to commencement of preparation of the Plans and Specifications, CITY shall submit its design engineer's proposal for the design of the IRWD FACILITIES to DISTRICT. DISTRICT will have a period of five (5) calendar days from its receipt of such design proposal to review and either indicate its approval or request changes. CITY shall cause its design engineer to review and respond to any requested changes. The Plans and Specifications shall be deemed to incorporate the applicable portions of DISTRICT's latest edition of "Construction Manual for the Construction of Water, Sewer, and Reclaimed Water Facilities" (the "Construction Manual"). The IRWD FACILITIES shall be contracted by CITY together with non-reimbursable work to be completed by CITY within the Project pursuant to plans prepared by CITY's design engineer.

SECTION 3. BIDDING AND AWARD. The parties agree that the construction of the IRWD FACILITIES shall be included in CITY's contract(s) awarded for the Project and that the IRWD FACILITIES shall be bid as a separate item or items that can be deleted. During the bidding process, CITY shall deliver to IRWD one (1) complete set of the bid documents that include the IRWD FACILITIES, including all related addenda concurrently with the distribution thereof to prospective bidders. Upon opening of bids by CITY, CITY will submit the bids or a spread sheet summary of the bids to DISTRICT. DISTRICT will have a period of ten (10) calendar days from its receipt of the bid results for review and approval of the IRWD FACILITIES bid item(s) submitted by the bidder identified to DISTRICT by CITY as CITY's proposed successful bidder. CITY agrees that bids received for the construction of the IRWD

FACILITIES bid item(s) shall be subject to the approval of DISTRICT prior to award of the Project construction contract(s) that include the IRWD FACILITIES; and further agrees that in the event DISTRICT does not approve such bids, either party may terminate this Agreement upon twenty-four (24) hours' prior written notice, in which event CITY shall have no further obligation to construct the IRWD FACILITIES, and DISTRICT may elect to install the IRWD FACILITIES with its own contractor. If DISTRICT approves of the IRWD FACILITIES bid item(s) of CITY's successful bidder, CITY agrees to cause the IRWD FACILITIES to be constructed as part of the contract awarded to such bidder. The total estimated construction cost for the IRWD FACILITIES is \$686,400.00, provided, however, the amount to be reimbursed by DISTRICT shall be based on the actual costs of construction. Upon award of the construction contract, CITY shall provide DISTRICT with one (1) original copy of the fully executed contract documents and one (1) copy of the bid package relating to the IRWD FACILITIES received from the successful bidder.

SECTION 4. DESIGN REVISIONS AND CHANGE ORDERS. DISTRICT agrees to reimburse CITY for any change order(s) for revision(s) requested by DISTRICT or otherwise required to construct the IRWD FACILITIES. CITY shall promptly furnish DISTRICT with copies of any proposed change order(s) to such contract within five (5) working days of the initiation of the changed conditions to such contract, which shall be subject to DISTRICT approval if and to the extent the IRWD FACILITIES are affected therefrom.

DISTRICT shall promptly review proposed change order(s) and provide CITY with a response within five (5) working days or sooner of receiving proposed change order(s) information from CITY. DISTRICT agrees not to unreasonably cause delay(s) to the construction schedule of the Project in reviewing proposed change order(s) for the IRWD FACILITIES. Notwithstanding any other provision herein, any approval required to be given by the DISTRICT under this Section shall be deemed given if no response to the CITY's request for such approval is received by the CITY within eight (8) working days following the written request for such approval unless the parties agree otherwise in a writing executed by both parties.

SECTION 5. REIMBURSEMENT. DISTRICT agrees to reimburse CITY for the following costs (collectively, the "Costs"): (1) the actual costs of design, construction, permits, bonds, and legal fees (excluding the costs of preparation of this Agreement) incurred by CITY in connection with the design and construction of the IRWD FACILITIES, plus (2) an administration fee which shall be equal to four percent (4%) of the actual cost of construction (costs paid directly to CITY's contractor for construction, only, excluding any cost for design,

surveying, geotechnical or other work) of the IRWD FACILITIES and which shall be deemed to cover all costs of project administration, including, but not limited to, accounting, inspection, surveying, compaction testing, geotechnical services and engineering. CITY shall keep a separate accounting of all Costs incurred by CITY in relation to the IRWD FACILITIES.

Within sixty (60) days of DISTRICT's acceptance of the IRWD FACILITIES as provided in Section 8, a final accounting of the Costs shall be made by CITY and submitted to DISTRICT along with an invoice for the Costs and any supporting documentation necessary to show the amounts which represent Costs of IRWD FACILITIES. Amounts paid pursuant to progress payment invoices shall be subject to adjustment in the final accounting. Within thirty (30) days of said final accounting, DISTRICT agrees to pay to CITY the total amount of the Costs.

SECTION 6. LAWS, ORDINANCES, RULES AND REGULATIONS. CITY shall require in its contract for the construction of the IRWD FACILITIES that its contractor be fully informed of and comply with all laws, ordinances, rules and regulations, including, but not limited to, all applicable requirements of the California Labor Code, prevailing wage laws, the Construction Manual, and the Rules and Regulations of DISTRICT, in connection with the construction of the IRWD FACILITIES.

SECTION 7. INSPECTION. DISTRICT shall have sole and absolute discretion as to all aspects of design and construction of the IRWD FACILITIES, and DISTRICT shall be entitled to inspect the construction of IRWD FACILITIES as it deems necessary to assure compliance with the Plans and Specifications, including shop drawing review and material inspection thereof. DISTRICT shall have access to all phases of the Project work to be performed by CITY for the purpose of such inspection; provided, however, all questions regarding the work being performed will be directed to CITY's resident engineer. DISTRICT will promptly notify CITY of any portion of the work on the IRWD FACILITIES which appears not to conform to the Plans and Specifications. The determination of DISTRICT as to conformity of the IRWD FACILITIES with the Plans and Specifications shall be made in DISTRICT's sole and absolute discretion. DISTRICT agrees not to unreasonably withhold its approval as to such conformity of the IRWD FACILITIES with the Plans and Specifications. CITY shall require its contractor to construct the IRWD FACILITIES so that the IRWD FACILITIES conform to the Plans and Specifications. CITY agrees to assume full responsibility for certifying or obtaining certification of the compaction of backfill material over the IRWD FACILITIES.

SECTION 8. ACCEPTANCE. DISTRICT agrees to accept the IRWD FACILITIES when the IRWD FACILITIES have been completed by CITY in accordance with all requirements of the Plans and Specifications, including any change orders approved by DISTRICT as provided in Section 3 hereof. At the time of completion and acceptance of the IRWD FACILITIES, CITY agrees to furnish DISTRICT with one (1) copy of the contractor's redlined set of blueline "record" drawings (showing all revisions, manufacturer and type of valves, pipe and fittings as required by DISTRICT) and one (1) copy of the compaction reports and certificate, survey notes and cut sheets.

SECTION 9. OWNERSHIP. It is mutually agreed between the parties hereto that notwithstanding the fact that CITY shall accomplish the construction of the IRWD FACILITIES subject to reimbursement, the IRWD FACILITIES to be completed hereunder, together with the necessary franchises, licenses, easements, rights-of-way, and other privileges, shall at all times be subject to the applicable rates, rules and regulations of DISTRICT, as modified or amended from time to time. CITY hereby disclaims any interest in the IRWD FACILITIES and does hereby transfer and assign to DISTRICT any and all right, title, and interest it may have in the IRWD FACILITIES. DISTRICT shall own, operate and maintain the IRWD FACILITIES following acceptance thereof.

SECTION 10. GUARANTEES. CITY will, pursuant to the requirement(s) of the Plans and Specifications, cause its contractor(s) for the IRWD FACILITIES to guarantee the IRWD FACILITIES against defects in workmanship and materials for a period of one (1) year from the date of acceptance by CITY, which acceptance shall be given only after acceptance by DISTRICT as provided in Section 8. It is further agreed that CITY shall cause the IRWD FACILITIES to be brought or restored to full compliance with the requirements of the Plans and Specifications, including any test requirements, for any portions of the IRWD FACILITIES which during said one (1) year period are found not to be in conformance with the provisions of the Plans and Specifications. This guarantee is in addition to any and all other warranties, express or implied, from CITY's contractors or material manufacturers, with respect to the IRWD FACILITIES. The guarantee and obligations under this section shall in no way be relieved by DISTRICT's inspection and/or acceptance of the IRWD FACILITIES. This section sets forth the entire guarantee and warranty of CITY with respect to the IRWD FACILITIES. The express or implied warranties of other persons with respect to IRWD FACILITIES shall in no way be limited by the guarantee and warranty of CITY contained in this section. If requested by DISTRICT, CITY agrees to assign to DISTRICT the contractor's guarantee and/or any other guarantees or warranties relating to the IRWD FACILITIES.

SECTION 11. INDEMNIFICATION. CITY shall indemnify, defend and hold DISTRICT, its officers, agents, employees, and engineers harmless from any expense, liability or claim for death, injury, loss, damage or expense to persons or property which may arise or is claimed to have arisen during construction of the IRWD FACILITIES as a result of any work or action performed by CITY or on behalf of CITY, save and except to the extent such expense, liability or claim is proximately caused in whole or in part by any act, omission, or negligence of DISTRICT, its officers, agents, employees or engineers or by any act or omission for which DISTRICT, its officers, agents, employees or engineers are liable without fault.

DISTRICT shall indemnify, defend and hold CITY, its officers, agents, and employees, harmless from any expense, liability or claim for death, injury, loss, damage or expense to persons or property which may arise or is claimed to have arisen either (i) as a result of any acts performed by DISTRICT, its officers, agents, or employees, with respect to the IRWD FACILITIES construction; or (ii) following DISTRICT acceptance of the IRWD FACILITIES, with respect to maintenance and operation of the IRWD FACILITIES, save and except to the extent such expense, liability or claim is proximately caused in whole or in part by any negligence of CITY, its officers, agents, employees or engineers, or by any act or omission for which CITY, its officers, agents, employees or engineers are liable without fault.

SECTION 12. INSURANCE AND BONDING. CITY shall cause its contractor(s) to provide performance and payment bonds for the construction of the Project including the IRWD FACILITIES and to obtain insurance coverage sufficiently broad to insure the matters set forth in this Agreement and to include DISTRICT, its officers, agents, employees and engineers, as additional insureds on all insurance policies that CITY requires its contractor(s) to provide. As evidence of such insurance coverage, CITY shall, prior to commencement of construction of the IRWD FACILITIES, provide DISTRICT with certificates of insurance and insurance endorsements from CITY's contractor(s) in a form acceptable to DISTRICT.

SECTION 13. TERMINATION. DISTRICT shall have the right to terminate this Agreement at any time, subject to the provisions of this section, by providing five (5) business days' prior written notice to CITY, except as noted in Section 3. If at the request or direction of a party other than CITY, the construction of the IRWD FACILITIES is not accomplished or completed, DISTRICT shall remain obligated for the actual amount of the Costs incurred by CITY to the date of termination.

If CITY's Project is canceled or modified so as to eliminate the necessity of the construction of the IRWD FACILITIES, CITY shall have the right to terminate this Agreement and thereby terminate its obligation to construct the IRWD FACILITIES, by providing five (5) business days' prior written notice to DISTRICT. In such case, DISTRICT will not be obligated for any design or any other Costs incurred by CITY. If IRWD elects to construct the IRWD FACILITIES, DISTRICT may, but shall not be obligated to, acquire the design or other work from CITY by separate agreement.

SECTION 14. NOTICE. Any notice or other written instrument required or permitted by this Agreement to be given to either party shall be deemed received when personally served or twenty-four (24) hours after being deposited in the U.S. Mail, postage prepaid, registered or certified and addressed as follows:

DISTRICT: Irvine Ranch Water District
15600 Sand Canyon Avenue
P.O. Box 57000
Irvine, CA 92619-7000
Attn: General Manager

CITY: City of Irvine
6427 Oak Canyon, Bldg. 1
Irvine, CA 92618
Attn: Reza Jafari, Senior Project Manager

SECTION 15. SUCCESSORS AND ASSIGNS; INTEGRATION; AMENDMENT. This Agreement shall be binding upon and inure to the benefit of the successor and assigns of CITY and DISTRICT. This Agreement constitutes the entire Agreement between CITY and DISTRICT and supersedes all prior understandings and agreements between the parties with respect to the subjects hereof. This Agreement may be modified only in writing signed by both parties hereto.

SECTION 16. LEGAL FEES. In the event of any declaratory or other legal or equitable action instituted between CITY and DISTRICT in connection with this Agreement, the prevailing party shall be entitled to recover from the losing party all of its costs and expenses, including court costs and reasonable attorneys' fees.

SECTION 17. DEEMED APPROVAL. Any approval required to be given by either party pursuant to this Agreement shall be deemed given if no response to the party's request for

such approval is received by the requesting party within fifteen (15) days following the written request for such approval.

SECTION 18. SEVERABILITY. If any term, provision, covenant or condition of this Agreement is held to be invalid, void or other unenforceable, to any extent, by any court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby, and each term provision, covenant or condition of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

SECTION 19. APPLICABLE LAW. This Agreement shall be construed and enforced in accordance with the laws of the State of California.

SECTION 20. WAIVER. The waiver of any provision of this Agreement by either party shall not be deemed to be a waiver of any other provision or of any preceding or subsequent breach hereunder.

IN WITNESS WHEREOF, the parties to the Agreement have executed this Agreement on the date herein above written.

IRVINE RANCH WATER DISTRICT

By _____
Paul Cook, General Manager

Dated _____

ATTEST:

By _____
Secretary/Assistant Secretary

Dated _____

APPROVED AS TO FORM:

By _____
Legal Counsel, IRWD

Dated _____

CITY OF IRVINE
A Municipal Corporation

By _____
Sean Joyce
City Manager of the City of Irvine

Dated _____

By _____
Manuel Gomez
Director of Public Works

Dated _____

ATTEST:

By _____
Molly McLaughlin
City Clerk of the City of Irvine

Dated _____

APPROVED AS TO FORM:

By _____
Jeffrey Melching, RUTAN & TUCKER, LLP
City Attorney of the City of Irvine

Dated _____

April 25, 2016

Prepared by: Tanja Fournier

Submitted by: Cheryl Clary/Rob Jacobson

Approved by: Paul Cook

17



ACTION CALENDAR

SERIES 2009-A AND 2009-B BONDS LETTERS OF CREDIT EXTENSION

SUMMARY:

The District currently has \$65 million of Series 2009-A Bonds (2009-A Bonds) with a U.S. Bank letter of credit (LOC) and \$65 million of Series 2009-B Bonds (2009-B Bonds) with a Bank of America (B of A) letter of credit, both scheduled to expire on July 15, 2016. Staff requested each of the banks to provide pricing options to extend the letters of credit for three, four and five year periods. U.S. Bank provided a proposal to extend the LOC for three and one-half years at an annual cost of 0.36%, or four and one-half years at 0.41%. B of A provided only a three-year extension proposal at an annual cost of 0.40%. Staff is recommending the Board approve extending the US Bank LOC for four and one-half years at 0.41% and the B of A LOC for three years at 0.40%.

BACKGROUND:

The District currently has \$65 million of 2009-A Bonds supported by a U.S. Bank letter of credit and \$65 million of 2009-B Bonds supported by a Bank of America letter of credit. Each of the LOCs are scheduled to expire on July 15, 2016. Staff requested both banks to provide pricing options to extend the letters of credit for three, four and five year terms. U.S. Bank provided a proposal to extend the LOC for three and one half years at 0.36% or four and one half years at 0.41%. Bank of America provided a three-year extension proposal at 0.40%.

The annual cost of the current LOCs for the bonds is 0.35%. Due to changes in bank regulations requiring increased capital reserves, bank LOC pricing has increased since the last renewals. Staff discussed the proposals with the District's Municipal Advisor, Public Financial Management (PFM), and spoke with other underwriters to ensure the proposals received were competitive with other banks of similar credit quality. Both PFM and the underwriters felt that the Bank of America LOC pricing was slightly above market, however; due to the expense of changing an LOC (primarily legal and rating agency fees estimated at more than \$85,000) the replacement would be cost prohibitive. Staff recommends the Board authorize extending the US Bank LOC for four and one-half years at 0.41% and the Bank of America LOC for three years at 0.40%. The Letter of Credit Pricing Analysis is attached as Exhibit "A".

Legal counsel has provided a Resolution Authorizing Certain Actions in Connection with the LOC Extensions attached as Exhibit "B".

FISCAL IMPACTS:

Extending the US Bank LOC for four and one-half years at 0.41% will result in a total cost of \$1,083,098 and extending the Bank of America LOC for three years at 0.40% will result in a total cost \$728,048.

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee meeting on April 5, 2016.

RECOMMENDATION:

THAT THE BOARD APPROVE TO EXTEND THE US BANK LETTER OF CREDIT SUPPORTING THE 2009A BONDS FOR 4-1/2 YEARS AT AN ANNUAL COST OF 0.41%, APPROVE TO EXTEND THE BANK OF AMERICA LETTER OF CREDIT SUPPORTING THE 2009B BONDS FOR THREE YEARS AT AN ANNUAL COST OF 0.40%; AND ADOPT A RESOLUTION BY THE FOLLOWING TITLE:

RESOLUTION NO. 2016 - ____

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
AUTHORIZING CERTAIN ACTIONS IN CONNECTION
WITH EXTENSION OF LETTERS OF CREDIT
(CONSOLIDATED SERIES 2009A AND CONSOLIDATED SERIES 2009B)

LIST OF EXHIBITS:

- Exhibit "A" – Letter of Credit Extension Pricing Analysis
- Exhibit "B" – Resolution Authorizing Certain Actions in Connection with the LOC Extensions

EXHIBIT "A"

IRVINE RANCH WATER DISTRICT
Letter of Credit Pricing Analysis
April 5, 2016

Term	Stated Amount(1)	2009-A Bonds US Bank Aa2/AA-/AA		2009-B Bonds Bank of America A1/A/A+	
		Fee	Annual Cost	Fee	Annual Cost
2016-2017	63,198,630	0.41%	\$259,114	0.40%	\$252,795
2017- 2018	60,670,685	0.41%	248,750	0.40%	242,683
2018 - 2019	58,142,740	0.41%	238,385	0.40%	232,571
2019 - 2020	55,614,795	0.41%	228,021		
2020-2021	53,086,849	0.41%	108,828 (2)		
Total			\$1,083,098		\$728,048

(1) Stated amount represents the average par amount of bonds outstanding for each issue for the period, plus an average of 34 days of interest at the maximum rate of 12%.

(2) Represents six months of fiscal year 2020-2021.

Exhibit "B"

RESOLUTION NO. 2016-__

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT
AUTHORIZING CERTAIN ACTIONS IN CONNECTION
WITH EXTENSION OF LETTERS OF CREDIT
(CONSOLIDATED SERIES 2009A AND CONSOLIDATED SERIES 2009B)

WHEREAS, the Irvine Ranch Water District ("IRWD") has issued the Bonds of Irvine Ranch Water District, Consolidated Series 2009A (the "Series 2009A Bonds") and the Bonds of Irvine Ranch Water District, Consolidated Series 2009B (the "Series 2009B Bonds"); and

WHEREAS, the irrevocable letter of credit of U.S. Bank National Association has been issued with respect to the Series 2009A Bonds (the "2009A Letter of Credit");

WHEREAS, the irrevocable letter of credit of Bank of America, N.A., has been issued with respect to the Series 2009B Bonds (the "2009B Letter of Credit" and, together with the 2009A Letter of Credit, the "Letters of Credit"); and

WHEREAS, the Letters of Credit are scheduled to expire on July 15, 2016; and

WHEREAS, after evaluating proposed terms and conditions for extending the Letters of Credit, the Board of Directors believes it is in the interest of IRWD to authorize the extension of each of the Letters of Credit as provided herein; and

WHEREAS, the 2009A Letter of Credit was issued and has previously been extended pursuant to the Amended and Restated Reimbursement Agreement, dated as of April 1, 2011, as amended by the First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013, each by and between the District and U.S. Bank National Association (collectively, the "2009A Reimbursement Agreement"); and

WHEREAS, the 2009B Letter of Credit was issued and has previously been extended pursuant to the Amended and Restated Reimbursement Agreement, dated as of April 1, 2011, as amended by the First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013, each by and between the District and Bank of America, N.A. (collectively, the "2009B Reimbursement Agreement").

NOW THEREFORE, the Board of Directors of IRWD DOES HEREBY RESOLVE, DETERMINE and ORDER as follows:

Section 1. The Treasurer is hereby authorized and directed to cause the extension of the 2009A Letter of Credit, so as to expire on or about December 15, 2020, and to cause the extension of the 2009B Letter of Credit, so as to expire on or about July 15, 2019. The form of a second amendment to the 2009A Reimbursement Agreement and a second amendment to the 2009B Reimbursement agreement (each, inclusive of the form of an amended and restated fee letter) are hereby approved in substantially the forms presented to the Board with this resolution, and the President and Secretary are authorized and directed to execute such amendments and the President is authorized to execute such fee letters, each in the form so presented with such

Exhibit "B"

changes therein as are approved by, and on the date for delivery established by, the Treasurer with the concurrence of the President, which approval will be conclusively evidenced by execution and delivery thereof.

Section 2. The foregoing authorization to cause the extension of the Letters of Credit shall include the approval of the terms of any amendments to agreements and instruments to be delivered by and to the respective remarketing agent. The President and Secretary of IRWD are authorized and directed to execute any amendment so approved.

Section 3. The foregoing authorization to cause the extension of the Letters of Credit shall further include any and all of the following: preparation and/or approval, execution and delivery of any notices, instruments, disclosure or other documents to be delivered or distributed in conjunction with the authorized actions, and any other actions to implement such extension of the Letters of Credit.

Section 5. The President, Secretary and each other officer of IRWD hereby is authorized and directed to execute and deliver any and all documents and instruments and to do and cause to be done any and all acts and things necessary or proper for carrying out the transactions contemplated by this resolution.

ADOPTED, SIGNED AND APPROVED this ____ day of _____, 2016.

President
IRVINE RANCH WATER DISTRICT and
of the Board of Directors thereof

Secretary
IRVINE RANCH WATER DISTRICT and
of the Board of Directors thereof

APPROVED AS TO FORM:

BOWIE, ARNESON,
WILES & GIANNONE
Legal Counsel - IRWD

By _____

00189875/ 042016

SECOND AMENDMENT TO
AMENDED AND RESTATED REIMBURSEMENT AGREEMENT

This SECOND AMENDMENT TO AMENDED AND RESTATED REIMBURSEMENT AGREEMENT (this "Amendment"), is made and entered into as of _____, 2016 by and between IRVINE RANCH WATER DISTRICT, a California water district (the "District"), and U.S. BANK NATIONAL ASSOCIATION, a national banking association (the "Bank").

W I T N E S S E T H

WHEREAS, the District and the Bank have previously entered into an Amended and Restated Reimbursement Agreement, dated as of April 1, 2011, and a First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013 (collectively, the "Agreement"), with reference to the Bonds of Irvine Ranch Water District, Consolidated Series 2009B;

WHEREAS, the District desires to extend the scheduled expiration date of the Letter of Credit (as defined in the Agreement);

WHEREAS, the Bank is willing to extend the stated expiration date of the Letter of Credit (as defined in the Agreement) as long as certain amendments are made to the Agreement; and

WHEREAS, the District is willing to agree to such amendments in order to extend the stated expiration date of the Letter of Credit (as defined in the Agreement).

NOW, THEREFORE, in consideration of the foregoing, the premises and mutual covenants contained herein and for other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

1. Defined Terms. Unless otherwise defined herein, capitalized terms used herein shall have the meanings given thereto in the Agreement.

2. Effectiveness of this Amendment. This Amendment shall become effective as provided herein at the time (the "Amendment Effective Time") on the first date (the "Amendment Effective Date") on which each of the following conditions shall be satisfied or waived by the Bank:

(a) Delivery of Amendment. The Bank shall have received a copy of this Amendment duly executed and delivered by the District.

(b) Delivery of Amended and Restated Fee Letter. The Bank shall have received a copy of the letter agreement of even date herewith from the Bank to the District regarding fees and expenses duly acknowledged and agreed to by the District, amending and restating the Fee Letter (as defined in the Agreement).

Exhibit "B"

(c) Representations and Covenants of the District; No Defaults. The following statements shall be true and correct on and as of the Amendment Effective Date, and the Bank shall have received a certificate signed by an authorized officer of the District, dated the Amendment Effective Date, stating that:

(i) The representations of the District contained in Article IV of the Agreement and Section 5 of this Amendment are true and correct in all material respects on and as of the Amendment Effective Date as though made on and as of such date, provided that (A) references in Article IV to the issuance and sale of the Bonds shall refer to the actual date on which the Bonds were issued and sold, (B) references to June 30, 2010 set forth in Section 4.9 of the Agreement shall be deemed to be references to June 30, 2015 and (C) the reference to November 29, 2010 set forth in Section 4.9 of the Agreement shall be deemed to be a reference to November 27, 2015.

(ii) The District has performed or complied with all of its obligations, agreements and covenants to be performed or complied with by it pursuant to the Agreement on or prior to the Amendment Effective Date.

(iii) After giving effect to the execution and delivery of this Amendment and the letter agreement described in Section 2(b) above by the District, there exists no Default or Event of Default.

(d) Rating. The District, at its own cost, shall have obtained at least one rating of the Bank-Owned Bonds from a Rating Agency and shall have delivered evidence thereof to the Bank.

(e) Fees, Costs and Expenses. The Bank shall have received payment of all fees, costs and expenses due under the Agreement that are to be paid on or prior to the Amendment Effective Date, including, without limitation, the fees and expenses of counsel for the Bank incurred in connection with the preparation, execution and delivery of this Amendment and the letter agreement described in Section 2(b) above.

(f) No Material Adverse Effect. As of the Amendment Effective Date, the Bank, in its sole determination, shall be satisfied that (i) no Material Adverse Effect has occurred since June 30, 2015, and (ii) no law, rule or regulation shall have been enacted, amended, suspended or repealed that would result in a Material Adverse Effect.

3. Amendment. At the Amendment Effective Time:

(a) The following defined terms shall be added to Section 1.1 of the Agreement and shall be inserted in alphabetical order:

"Designated Jurisdiction" shall mean any country or territory to the extent that such country or territory itself is the subject of any Sanction.

"Executive Order" shall mean an executive order of the President of the United States.

Exhibit "B"

“OFAC” shall mean the Office of Foreign Assets Control of the United States Department of the Treasury.

“Sanctions” shall mean any international economic sanction administered or enforced by the United States Government (including, without limitation, OFAC), the United Nations Security Council, the European Union, Her Majesty’s Treasury or other relevant sanctions authority.

(b) The following defined term set forth in Section 1.1 of the Agreement shall be amended and restated in entirety to read as follows:

“Base Rate” shall mean, for each day of determination, a rate of interest per annum equal to the highest of (i) the Prime Rate plus two percent (2%); (ii) the Federal Funds Rate plus three percent (3%); and (iii) seven and one half percent (7.5%).

(c) Section 2.2(f) shall be amended and restated in its entirety to read as follows:

(f) Increased Costs and Reduced Return.

(i) If the Bank or any Participant determines that any Change of Law affecting the Bank, the Bank’s holding company, such Participant or such Participant’s holding company, if any, regarding capital or liquidity requirements has or would have the effect of reducing the rate of return on the Bank’s or such Participant’s capital or liquidity or on the capital or liquidity of the Bank’s or such Participant’s holding company, if any, as a consequence of this Agreement, the Fee Letter or the Letter of Credit issued by the Bank, to a level below that which the Bank, the Bank’s holding company, such Participant or such Participant’s holding company could have achieved but for such Change of Law (taking into consideration the Bank’s policies, the policies of the Bank’s holding company, such Participant’s policies or the policies of such Participant’s holding company with respect to capital adequacy), then from time to time, within 30 days after demand by the Bank or such Participant made through the Bank, IRWD will pay to the Bank or such Participant such additional amount or amounts as will compensate the Bank, the Bank’s holding company, such Participant or such Participant’s holding company for any such reduction suffered.

(ii) If any Change of Law shall:

(A) impose, modify or deem applicable any reserve, special deposit, compulsory loan, insurance charge or similar requirement against assets of, deposits with or for the account of, or credit extended or participated in by, the Bank or such Participant; or

(B) subject the Bank or such Participant to any taxes on its loans, loan principal, letters of credit, commitments, or other obligations, or its deposits, reserves, other liabilities or capital attributable thereto; or

Exhibit "B"

and the result of any of the foregoing shall be to increase the cost to the Bank or such Participant of participating in, issuing or maintaining the Letter of Credit, or to reduce the amount of any sum received or receivable by the Bank or such Participant hereunder (whether of principal, interest or any other amount) or under the Fee Letter then, within 30 days following the demand of the Bank, IRWD will pay to the Bank or such Participant such additional amount or amounts as will compensate the Bank for such additional costs incurred or reduction suffered; provided, however, that any amounts payable to any Participant pursuant to this Section shall not exceed the amount IRWD would have been required to pay pursuant to this Section without the participation of such Participant.

(iii) A certificate of the Bank or any Participant setting forth the amount or amounts necessary to compensate the Bank, its holding company, such Participant or its holding company, as the case may be, as specified in subsection (i) or (ii) of this Subsection (f) and delivered to IRWD (accompanied by a statement specifying the reasons therefor) shall be conclusive absent manifest error. In determining such amount, the Bank or such Participant may use any reasonable averaging and attribution methods.

(d) Section 2.8 of the Agreement shall be amended by deleting the reference to "356/366 day year, as the case may be," and substituting "360 day year" therefor.

(e) Article IV of the Agreement shall be amended by adding the following Section after Section 4.21 and the table of contents shall be revised to reflect such addition:

Section 4.22. Sanctions. IRWD represents that neither IRWD or, to the knowledge of IRWD, any director, officer, employee, agent, affiliate or representative of IRWD is (a) currently the subject of any Sanctions, (b) located, organized or residing in any Designated Jurisdiction, or (c) or has been (within the previous five (5) years) engaged in any transaction with any Person who is now or was then the subject of Sanctions or who is located, organized or residing in any Designated Jurisdiction.

(f) Section 5.1(d) of the Agreement shall be amended by adding the following sentence at the end of said Section:

IRWD covenants that it will not permit the proceeds of the Letter of Credit to be used to violate any of the foreign asset control regulations of OFAC or any enabling statute or Executive Order related thereto, including, without limitation, lending, contributing, providing or otherwise making available such proceeds to fund any activity or business in any Designated Jurisdiction or to fund any activity or business of any Person located, organized or residing in any Designated Jurisdiction or who is the subject of any Sanctions, or in any other manner that will result in any violation by any Person (including the Bank) of Sanctions.

Exhibit "B"

(g) Section 5.1 of the Agreement shall be amended by adding the following subsection after subsection 5.1(q) and the table of contents shall be revised to reflect such addition:

(p) Sanctions. IRWD shall use its best efforts to ensure that no person who controls, or is under the control of, IRWD is or shall be listed on the Specially Designated Nationals and Blocked Person List or other similar lists maintained by OFAC, the Department of the Treasury or included in any Executive Order that prohibits or limits the Bank from making any advance or extension of credit to IRWD or from otherwise conducting business with IRWD.

(h) Section 7.1(n) of the Agreement shall be amended by deleting the reference to "A2, A or A" and substituting "A2, A or A" therefor.

(i) Article VIII of the Agreement shall be amended by adding the following Section after Section 8.16 and the table of contents shall be revised to reflect such addition:

Section 8.17. No Advisory or Fiduciary Relationship. In connection with all aspects of each transaction contemplated hereby (including in connection with any amendment, waiver or other modification hereof or of any other Financing Document), IRWD acknowledges and agrees that: (a) (i) the services regarding this Agreement provided by the Bank and any affiliate thereof are arm's-length commercial transactions between IRWD, on the one hand, and the Bank and its affiliates, on the other hand, (ii) IRWD has consulted its own legal, accounting, regulatory and tax advisors to the extent it has deemed appropriate, and (iii) IRWD is capable of evaluating, and understands and accepts, the terms, risks and conditions of the transactions contemplated hereby and by the other Financing Documents; (b) (i) the Bank and its affiliates each is and has been acting solely as a principal and, except as expressly agreed in writing by the relevant parties, has not been, is not, and will not be, acting as an advisor, agent or fiduciary for IRWD and (ii) neither the Bank nor any of its affiliates has any obligation to IRWD with respect to the transactions contemplated hereby except those obligations expressly set forth herein and in the other Financing Documents; and (c) the Bank and its affiliates may be engaged in a broad range of transactions that involve interests that differ from those of IRWD, and neither the Bank nor any of its affiliates has any obligation to disclose any of such interests to IRWD. To the fullest extent permitted by law, IRWD hereby waives and releases any claims that it may have against the Bank or any of its affiliates with respect to any breach or alleged breach of agency or fiduciary duty in connection with any aspect of any transactions contemplated hereby.

4. Amendment of the Letter of Credit. At the Amendment Effective Time, the Bank shall execute and deliver to the Trustee an amendment to the Letter of extending the Stated Expiration Date to July 15, 2019.

5. Representations and Warranties.

(a) The District is a California water district duly created and validly existing under the Constitution and the laws of the State of California.

Exhibit "B"

(b) The District has the power and authority to execute, deliver and perform this Amendment.

(c) The District has taken all necessary action to authorize this Amendment, and to execute, deliver and perform its obligations under this Amendment in accordance with its terms.

(d) This Amendment has been duly executed and delivered by the District, and when executed and delivered by the Bank will be, a legal, valid and binding obligation of the District in accordance with its terms, except as such enforceability may be limited by (i) the effect of any applicable bankruptcy, insolvency, reorganization, moratorium or similar law affecting creditors' rights generally, and (ii) general principles of equity (regardless of whether such enforceability is considered in a proceeding in equity or at law).

(e) The execution, delivery and performance of this Amendment by the District in accordance with its terms does not and will not (i) contravene the organizational documents of the District, (ii) require any consent or approval of any person other than those which have been obtained (and not revoked) prior to the Amendment Effective Date, (iii) violate any laws, rules or regulations (including, without limitation, Regulations T, U or X of the Federal Reserve Bank, or any successor regulations), (iv) conflict with, result in a breach of or constitute a default under any contract to which the District is a party or by which it or any of its property may be bound or (v) result in or require the creation or imposition of any lien upon or with respect to any property now owned or hereafter acquired by the District except such liens, if any, expressly created by any Financing Document.

(f) There is no action, suit or proceeding, at law or in equity, or before any court, public board, public body or arbitrator pending (or to the knowledge of the District, threatened), against the District or any officers of the District in their respective capacities as such (i) to restrain or enjoin the execution and delivery by the District of this Amendment, (ii) in any manner questioning the authority of the District to execute, deliver and perform this Amendment or the other Financing Documents to which it is a party, or (iii) questioning the validity or enforceability of this Amendment or the other Financing Documents to which it is a party.

6. Miscellaneous.

(a) Except as expressly modified by this Amendment, the Agreement shall continue to be and remain in full force and effect in accordance with its terms.

(b) This Amendment may be executed in any number of counterparts, each of which shall constitute an original, but all of which when taken together shall constitute but one instrument.

(c) The Bank's rights and obligations under this Amendment shall be deemed to be a contract made under the laws of the State of New York and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law. The District's rights and obligations under this Amendment shall be deemed to be a

Exhibit "B"

contract made under the laws of the State of California and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law.

(d) This Amendment may be executed by facsimile signature and each such signature shall be treated in all respects as having the same effect as an original signature.

[Remainder of page intentionally left blank.]

Exhibit "B"

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be duly executed and delivered by their respective officers thereunto duly authorized as of the date first above written.

IRVINE RANCH WATER DISTRICT

By: _____

Name: Mary Aileen Matheis

Title: President

-Signature Page-
Second Amendment to
Amended and Restated Reimbursement Agreement

Exhibit "B"

IRVINE RANCH WATER DISTRICT

By: _____

Name: Leslie Bonkowski

Title: Secretary

**-Signature Page-
Second Amendment to
Amended and Restated Reimbursement Agreement**

Exhibit "B"

U.S. BANK NATIONAL ASSOCIATION

By: _____
Name: Kenneth E. Haber
Title: Vice President

-Signature Page-
Second Amendment to
Amended and Restated Reimbursement Agreement



_____, 2016

Irvine Ranch Water District
2009A GO Bonds
Amended and Restated Fee Letter

Irvine Ranch Water District
 15600 Sand Canyon Avenue
 Irvine, CA 92718
 Attention: Treasurer

Ladies and Gentlemen:

Reference is made to (i) the Amended and Restated Reimbursement Agreement dated as of April 1, 2011 between Irvine Ranch Water District (“*you*” or the “*District*”) and U.S. Bank National Association (“*US Bank*” or the “*Bank*”) relating to the Bonds of Irvine Ranch Water District, Consolidated Series 2009A, as amended by the First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013, between the District and US Bank, and as further amended by the Second Amendment to Amended and Restated Reimbursement Agreement, dated as of _____, 2016, between the District and US Bank (collectively, the “*Agreement*”), and (ii) the letter agreement dated as of July 15, 2013 between US Bank and the District regarding certain fees and expenses (the “*Existing Fee Letter*”). This letter agreement amends and restates the Existing Fee Letter in its entirety as of the date hereof. Any capitalized term below that is defined in the Agreement shall have the same meaning when used herein. This letter is the Fee Letter described in the Agreement.

In order to induce US Bank to extend the stated expiration date of the Letter of Credit to December __, 2020, the District agrees to make the following payments at the following times:

(1) A letter of credit fee (the “*Letter of Credit Fee*”) on the daily average undrawn Stated Amount of the Letter of Credit in effect from time to time from the date of this Fee Letter to and including the Termination Date, at the applicable Letter of Credit Fee Rate, payable quarterly in arrears on the first Business Day of each January, April, July and October until the Termination Date and on the Termination Date. As used herein, “*Letter of Credit Fee Rate*” means the fee rate per annum set forth in the grid below opposite Level 1; provided, however, if any Rating Agency downgrades its Rating to a level less than Level 1, the applicable “*Letter of Credit Fee Rate*” shall be the rate per annum set forth in the grid below opposite the level that corresponds to the lowest level (it being understood that level 1 is the highest level):

Exhibit "B"

- 2 -

LEVEL	MOODY'S RATING	S&P RATING	FITCH RATING	LETTER OF CREDIT FEE RATE
Level 1	Aa1 or above	AA+ or above	AA+ or above	0.41%
Level 2	Aa2	AA	AA	0.56%
Level 3	Aa3	AA-	AA-	0.71%
Level 4:	A1	A+	A+	0.91%
Level 5:	A2	A	A	1.11%
Level 6:	A3	A-	A-	1.36%
Level 7:	Baa1	BBB+	BBB+	1.86%
Level 8:	Baa2	BBB	BBB	2.36%
Level 9:	Baa3	BBB-	BBB-	3.11%

Notwithstanding the foregoing, the Letter of Credit Fee Rate shall be increased by 1.00% per annum from the Letter of Credit Fee Rate in effect immediately prior thereto, (a) in the event that (i) any Rating is withdrawn, suspended or otherwise unavailable from any Rating Agency (other than as a result of the District's determination for reasons other than credit-related reasons or an imminent withdrawal, suspension or downgrade to reduce the number of Rating Agencies assigning Ratings from three to two) or (ii) only one Rating Agency is providing a Rating, and/or (b) upon the occurrence and during the continuance of an Event of Default other than an Event of Default of the type described in clauses (i) and (ii) of Section 7.1(n) of the Agreement.

Any change in the Letter of Credit Fee Rate resulting from a change in a Rating shall be and become effective as of and on the date of the announcement of the change in such Rating. References to the Ratings above are references to the rating categories of the Rating Agencies as presently determined by the respective Rating Agencies and in the event of adoption of any new or changed rating system by any Rating Agency, the Ratings from the applicable Rating Agency shall be deemed to refer to the rating category under the new rating system which most closely approximates the applicable rating category as currently in effect.

The Letter of Credit Fee for any period prior to the date of this Fee Letter shall be calculated in accordance with the terms of the Existing Fee Letter.

(2) In the event the Letter of Credit is terminated prior to the first anniversary of the date of this Fee Letter, a termination fee (the "**Termination Fee**") payable on the date of termination equal to the Letter of Credit Fee that would have been payable to the Bank pursuant to preceding paragraph (1) but for the termination of the Letter of Credit for the period from and including the date on which the Letter of Credit is terminated to and including the first anniversary of the date of this Fee Letter assuming (A) a Letter of Credit Fee Rate equal to the Letter of Credit Fee Rate in effect immediately prior to the termination of the Letter of Credit; and (B) a Stated Amount equal to the Stated Amount in effect on the date of this Fee Letter; provided, however, that the Termination Fee shall not be payable if (1) the Bank's unsecured short-term credit rating at the time of termination is below "P-1" by Moody's, below "A-1" by S&P or below "F1" by Fitch or (2) the Bank submits a request for payment pursuant to Section 2.2(f) of the Agreement.

(3) A draw fee of \$250 for each drawing under the Letter of Credit, payable on each Business Day on which the Bank honors the amount of any such drawing or, if the District so elects, payable quarterly in arrears along with the Letter of Credit Fee.

(4) The Bank's customary courier fees and wire transfer fees payable promptly following the District's receipt of an invoice therefor.

(5) Upon each transfer of the Letter of Credit in accordance with its terms, a transfer commission equal to \$2,500.

(6) (A) At the time any non-material amendment, waiver, supplement or restatement of the Agreement is requested or (B) in connection with any Bank consent required for any non-material amendment, waiver, supplement or restatement of any Financing Document (other than the Agreement) at the time such consent is sought, a fee of \$2,500 plus reasonable attorneys' fees and expenses, which fee shall be earned and payable whether or not any such amendment, waiver, supplement or restatement is executed or consent granted. Fees for material amendments, waivers, supplements, restatements, supplements and consents shall be negotiated at the time sought.

(7) Within thirty days of the date of this Fee Letter, the fees and expenses of McGuireWoods LLP, counsel to the Bank, incurred in connection with the preparation, negotiation and execution of the Agreement and this Fee Letter, which fees shall not exceed \$3,500.

All amounts paid pursuant to this Fee Letter shall be non-refundable. Computations of the Letter of Credit Fee and the Termination Fee shall be made on the basis of a 360 day year and actual days elapsed. All amounts paid pursuant to this Fee Letter shall be paid in the manner and to the account set forth in the Agreement.

This Fee Letter may not be amended or waived except by an instrument in writing signed by US Bank and you.

The provisions of Sections 8.9 and 8.10 of the Agreement shall be incorporated by this reference into this Fee Letter as if such provisions were set forth in their entirety except that references to other agreements or "this Agreement" shall mean this Fee Letter and references to "hereunder" or "hereof" shall mean under this Fee Letter or of this Fee Letter.

This Fee Letter may be executed in any number of counterparts, each of which shall be an original, and all of which, when taken together, shall constitute one agreement. Delivery of an executed signature page of this Fee Letter by electronic transmission shall be effective as delivery of a manually executed counterpart hereof.

This Fee Letter is delivered to you on the understanding that neither this Fee Letter nor any of its terms shall be disclosed, directly or indirectly, to any other person except (1) to your officers, directors, employees, accountants, attorneys, agents and advisors who are directly involved in the consideration of this matter on a confidential and need-to-know basis and for whom you shall be responsible for any breach by any of them of this confidentiality undertaking or (b) under compulsion of law (whether by interrogatory, subpoena, civil investigative demand or otherwise) or by order of any court or governmental or regulatory body, provided that, to the extent permitted, you shall give us reasonable prior notice of such disclosure.

[Remainder of page intentionally left blank.]

Exhibit "B"

- 4 -

Please confirm that the foregoing is our mutual understanding by signing and returning to US Bank an executed counterpart of this Fee Letter. This Fee Letter shall become effective as of the date first above referenced upon our receipt of an executed counterpart of this Fee Letter from you.

Very truly yours,

U.S. BANK NATIONAL ASSOCIATION

By: _____

Name: Kenneth E. Haber

Title: Vice President

Accepted and agreed to
as of the date first
written above by:

IRVINE RANCH WATER DISTRICT

By: _____

Name: Mary Aileen Matheis

Title: President

**SECOND AMENDMENT TO
AMENDED AND RESTATED REIMBURSEMENT AGREEMENT**

This SECOND AMENDMENT TO AMENDED AND RESTATED REIMBURSEMENT AGREEMENT (this "Amendment"), is made and entered into as of _____, 2016 by and between IRVINE RANCH WATER DISTRICT, a California water district (the "District"), and BANK OF AMERICA, N.A., a national banking association (the "Bank").

W I T N E S S E T H

WHEREAS, the District and the Bank have previously entered into an Amended and Restated Reimbursement Agreement, dated as of April 1, 2011, and a First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013 (collectively, the "Agreement"), with reference to the Bonds of Irvine Ranch Water District, Consolidated Series 2009B;

WHEREAS, the District desires to extend the scheduled expiration date of the Letter of Credit (as defined in the Agreement);

WHEREAS, the Bank is willing to extend the stated expiration date of the Letter of Credit (as defined in the Agreement) as long as certain amendments are made to the Agreement; and

WHEREAS, the District is willing to agree to such amendments in order to extend the stated expiration date of the Letter of Credit (as defined in the Agreement).

NOW, THEREFORE, in consideration of the foregoing, the premises and mutual covenants contained herein and for other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

1. Defined Terms. Unless otherwise defined herein, capitalized terms used herein shall have the meanings given thereto in the Agreement.

2. Effectiveness of this Amendment. This Amendment shall become effective as provided herein at the time (the "Amendment Effective Time") on the first date (the "Amendment Effective Date") on which each of the following conditions shall be satisfied or waived by the Bank:

(a) Delivery of Amendment. The Bank shall have received a copy of this Amendment duly executed and delivered by the District.

(b) Delivery of Amended and Restated Fee Letter. The Bank shall have received a copy of the letter agreement of even date herewith from the Bank to the District regarding fees and expenses duly acknowledged and agreed to by the District, amending and restating the Fee Letter (as defined in the Agreement).

Exhibit "B"

(c) Representations and Covenants of the District; No Defaults. The following statements shall be true and correct on and as of the Amendment Effective Date, and the Bank shall have received a certificate signed by an authorized officer of the District, dated the Amendment Effective Date, stating that:

(i) The representations of the District contained in Article IV of the Agreement and Section 5 of this Amendment are true and correct in all material respects on and as of the Amendment Effective Date as though made on and as of such date, provided that (A) references in Article IV to the issuance and sale of the Bonds shall refer to the actual date on which the Bonds were issued and sold, (B) references to June 30, 2010 set forth in Section 4.9 of the Agreement shall be deemed to be references to June 30, 2015 and (C) the reference to November 29, 2010 set forth in Section 4.9 of the Agreement shall be deemed to be a reference to November 27, 2015.

(ii) The District has performed or complied with all of its obligations, agreements and covenants to be performed or complied with by it pursuant to the Agreement on or prior to the Amendment Effective Date.

(iii) After giving effect to the execution and delivery of this Amendment and the letter agreement described in Section 2(b) above by the District, there exists no Default or Event of Default.

(d) Fees, Costs and Expenses. The Bank shall have received payment of all fees, costs and expenses due under the Agreement that are to be paid on or prior to the Amendment Effective Date, including, without limitation, the fees and expenses of counsel for the Bank incurred in connection with the preparation, execution and delivery of this Amendment and the letter agreement described in Section 2(b) above.

(e) No Material Adverse Effect. As of the Amendment Effective Date, the Bank, in its sole determination, shall be satisfied that (i) no Material Adverse Effect has occurred since June 30, 2015, and (ii) no law, rule or regulation shall have been enacted, amended, suspended or repealed that would result in a Material Adverse Effect.

3. Amendment. At the Amendment Effective Time:

(a) The following defined terms shall be added to Section 1.1 of the Agreement and shall be inserted in alphabetical order:

"Designated Jurisdiction" shall mean any country or territory to the extent that such country or territory itself is the subject of any Sanction.

"Executive Order" shall mean an executive order of the President of the United States.

"OFAC" shall mean the Office of Foreign Assets Control of the United States Department of the Treasury.

Exhibit "B"

"Sanctions" shall mean any international economic sanction administered or enforced by the United States Government (including, without limitation, OFAC), the United Nations Security Council, the European Union, Her Majesty's Treasury or other relevant sanctions authority.

(b) Section 2.2(f) shall be amended and restated in its entirety to read as follows:

(f) Increased Costs and Reduced Return.

(i) If the Bank or any Participant determines that any Change of Law affecting the Bank, the Bank's holding company, such Participant or such Participant's holding company, if any, regarding capital or liquidity requirements has or would have the effect of reducing the rate of return on the Bank's or such Participant's capital or liquidity or on the capital or liquidity of the Bank's or such Participant's holding company, if any, as a consequence of this Agreement, the Fee Letter or the Letter of Credit issued by the Bank, to a level below that which the Bank, the Bank's holding company, such Participant or such Participant's holding company could have achieved but for such Change of Law (taking into consideration the Bank's policies, the policies of the Bank's holding company, such Participant's policies or the policies of such Participant's holding company with respect to capital adequacy), then from time to time, within 30 days after demand by the Bank or such Participant made through the Bank, IRWD will pay to the Bank or such Participant such additional amount or amounts as will compensate the Bank, the Bank's holding company, such Participant or such Participant's holding company for any such reduction suffered.

(ii) If any Change of Law shall:

(A) impose, modify or deem applicable any reserve, special deposit, compulsory loan, insurance charge or similar requirement against assets of, deposits with or for the account of, or credit extended or participated in by, the Bank or such Participant; or

(B) subject the Bank or such Participant to any taxes on its loans, loan principal, letters of credit, commitments, or other obligations, or its deposits, reserves, other liabilities or capital attributable thereto; or

and the result of any of the foregoing shall be to increase the cost to the Bank or such Participant of participating in, issuing or maintaining the Letter of Credit, or to reduce the amount of any sum received or receivable by the Bank or such Participant hereunder (whether of principal, interest or any other amount) or under the Fee Letter then, within 30 days following the demand of the Bank, IRWD will pay to the Bank or such Participant such additional amount or amounts as will compensate the Bank for such additional costs incurred or reduction suffered; provided, however, that any amounts payable to any Participant pursuant to this Section shall not exceed the amount IRWD would

Exhibit "B"

have been required to pay pursuant to this Section without the participation of such Participant.

(iii) A certificate of the Bank or any Participant setting forth the amount or amounts necessary to compensate the Bank, its holding company, such Participant or its holding company, as the case may be, as specified in subsection (i) or (ii) of this Subsection (f) and delivered to IRWD (accompanied by a statement specifying the reasons therefor) shall be conclusive absent manifest error. In determining such amount, the Bank or such Participant may use any reasonable averaging and attribution methods.

(c) Article IV of the Agreement shall be amended by adding the following Section after Section 4.21 and the table of contents shall be revised to reflect such addition:

Section 4.22. Sanctions. IRWD represents that neither IRWD or, to the knowledge of IRWD, any director, officer, employee, agent, affiliate or representative of IRWD is (a) currently the subject of any Sanctions, (b) located, organized or residing in any Designated Jurisdiction, or (c) or has been (within the previous five (5) years) engaged in any transaction with any Person who is now or was then the subject of Sanctions or who is located, organized or residing in any Designated Jurisdiction.

(d) Section 5.1(d) of the Agreement shall be amended by adding the following sentence at the end of said Section:

IRWD covenants that it will not permit the proceeds of the Letter of Credit to be used to violate any of the foreign asset control regulations of OFAC or any enabling statute or Executive Order related thereto, including, without limitation, lending, contributing, providing or otherwise making available such proceeds to fund any activity or business in any Designated Jurisdiction or to fund any activity or business of any Person located, organized or residing in any Designated Jurisdiction or who is the subject of any Sanctions, or in any other manner that will result in any violation by any Person (including the Bank) of Sanctions.

(e) Section 5.1 of the Agreement shall be amended by adding the following subsection after subsection 5.1(q) and the table of contents shall be revised to reflect such addition:

(p) **Sanctions.** IRWD shall use its best efforts to ensure that no person who controls, or is under the control of, IRWD is or shall be listed on the Specially Designated Nationals and Blocked Person List or other similar lists maintained by OFAC, the Department of the Treasury or included in any Executive Order that prohibits or limits the Bank from making any advance or extension of credit to IRWD or from otherwise conducting business with IRWD.

(f) Article VIII of the Agreement shall be amended by adding the following Section after Section 8.16 and the table of contents shall be revised to reflect such addition:

Exhibit "B"

Section 8.17. No Advisory or Fiduciary Relationship. In connection with all aspects of each transaction contemplated hereby (including in connection with any amendment, waiver or other modification hereof or of any other Financing Document), IRWD acknowledges and agrees that: (a) (i) the services regarding this Agreement provided by the Bank and any affiliate thereof are arm's-length commercial transactions between IRWD, on the one hand, and the Bank and its affiliates, on the other hand, (ii) IRWD has consulted its own legal, accounting, regulatory and tax advisors to the extent it has deemed appropriate, and (iii) IRWD is capable of evaluating, and understands and accepts, the terms, risks and conditions of the transactions contemplated hereby and by the other Financing Documents; (b) (i) the Bank and its affiliates each is and has been acting solely as a principal and, except as expressly agreed in writing by the relevant parties, has not been, is not, and will not be, acting as an advisor, agent or fiduciary for IRWD and (ii) neither the Bank nor any of its affiliates has any obligation to IRWD with respect to the transactions contemplated hereby except those obligations expressly set forth herein and in the other Financing Documents; and (c) the Bank and its affiliates may be engaged in a broad range of transactions that involve interests that differ from those of IRWD, and neither the Bank nor any of its affiliates has any obligation to disclose any of such interests to IRWD. To the fullest extent permitted by law, IRWD hereby waives and releases any claims that it may have against the Bank or any of its affiliates with respect to any breach or alleged breach of agency or fiduciary duty in connection with any aspect of any transactions contemplated hereby.

4. Amendment of the Letter of Credit. At the Amendment Effective Time, the Bank shall execute and deliver to the Trustee an amendment to the Letter of extending the Stated Expiration Date to July 15, 2019.

5. Representations and Warranties.

(a) The District is a California water district duly created and validly existing under the Constitution and the laws of the State of California.

(b) The District has the power and authority to execute, deliver and perform this Amendment.

(c) The District has taken all necessary action to authorize this Amendment, and to execute, deliver and perform its obligations under this Amendment in accordance with its terms.

(d) This Amendment has been duly executed and delivered by the District, and when executed and delivered by the Bank will be, a legal, valid and binding obligation of the District in accordance with its terms, except as such enforceability may be limited by (i) the effect of any applicable bankruptcy, insolvency, reorganization, moratorium or similar law affecting creditors' rights generally, and (ii) general principles of equity (regardless of whether such enforceability is considered in a proceeding in equity or at law).

(e) The execution, delivery and performance of this Amendment by the District in accordance with its terms does not and will not (i) contravene the organizational

Exhibit "B"

documents of the District, (ii) require any consent or approval of any person other than those which have been obtained (and not revoked) prior to the Amendment Effective Date, (iii) violate any laws, rules or regulations (including, without limitation, Regulations T, U or X of the Federal Reserve Bank, or any successor regulations), (iv) conflict with, result in a breach of or constitute a default under any contract to which the District is a party or by which it or any of its property may be bound or (v) result in or require the creation or imposition of any lien upon or with respect to any property now owned or hereafter acquired by the District except such liens, if any, expressly created by any Financing Document.

(f) There is no action, suit or proceeding, at law or in equity, or before any court, public board, public body or arbitrator pending (or to the knowledge of the District, threatened), against the District or any officers of the District in their respective capacities as such (i) to restrain or enjoin the execution and delivery by the District of this Amendment, (ii) in any manner questioning the authority of the District to execute, deliver and perform this Amendment or the other Financing Documents to which it is a party, or (iii) questioning the validity or enforceability of this Amendment or the other Financing Documents to which it is a party.

6. Miscellaneous.

(a) Except as expressly modified by this Amendment, the Agreement shall continue to be and remain in full force and effect in accordance with its terms.

(b) This Amendment may be executed in any number of counterparts, each of which shall constitute an original, but all of which when taken together shall constitute but one instrument.

(c) The Bank's rights and obligations under this Amendment shall be deemed to be a contract made under the laws of the State of New York and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law. The District's rights and obligations under this Amendment shall be deemed to be a contract made under the laws of the State of California and for all purposes shall be construed in accordance with the laws of said State, without regard to principles of conflicts of law.

(d) This Amendment may be executed by facsimile signature and each such signature shall be treated in all respects as having the same effect as an original signature.

[Remainder of page intentionally left blank.]

Exhibit "B"

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be duly executed and delivered by their respective officers thereunto duly authorized as of the date first above written.

IRVINE RANCH WATER DISTRICT

By: _____

Name: Mary Aileen Matheis

Title: President

Exhibit "B"

IRVINE RANCH WATER DISTRICT

By: _____
Name: Leslie Bonkowski
Title: Secretary

-Signature Page-
Second Amendment to
Amended and Restated Reimbursement Agreement

Exhibit "B"

BANK OF AMERICA, N.A.

By: _____
Name: Grace Barvin
Title: Senior Vice President



_____, 2016

Irvine Ranch Water District
2009B GO Bonds
Amended and Restated Fee Letter

Irvine Ranch Water District
 15600 Sand Canyon Avenue
 Irvine, CA 92718
 Attention: Treasurer

Ladies and Gentlemen:

Reference is made to (i) the Amended and Restated Reimbursement Agreement dated as of April 1, 2011 between Irvine Ranch Water District ("*you*" or the "*District*") and Bank of America, N.A. ("*BANA*" or the "*Bank*") relating to the Bonds of Irvine Ranch Water District, Consolidated Series 2009B, as amended by the First Amendment to Amended and Restated Reimbursement Agreement, dated as of July 15, 2013, between the District and BANA, and as further amended by the Second Amendment to Amended and Restated Reimbursement Agreement, dated as of _____, 2016, between the District and BANA (collectively, the "**Agreement**"), and (ii) the letter agreement dated as of July 15, 2013 between the Bank and the District regarding certain fees and expenses (the "*Existing Fee Letter*"). This letter agreement amends and restates the Existing Fee Letter in its entirety as of the date hereof. Any capitalized term below that is defined in the Agreement shall have the same meaning when used herein. This letter is the Fee Letter described in the Agreement.

In order to induce BANA to extend the stated expiration date of the Letter of Credit to July 15, 2019, the District agrees to make the following payments at the following times:

(1) A letter of credit fee (the "*Letter of Credit Fee*") on the daily average undrawn Stated Amount of the Letter of Credit in effect from time to time from the date of this Fee Letter to and including the Termination Date, at the Letter of Credit Fee Rate, payable quarterly in arrears on the first Business Day of each January, April, July and October until the Termination Date and on the Termination Date. As used herein, "*Letter of Credit Fee Rate*" means the fee rate per annum set forth in the grid below opposite Level 1; provided, however, if any Rating Agency downgrades its Rating to a level less than Level 1, the applicable "*Letter of Credit Fee Rate*" shall be the rate per annum set forth in the grid below opposite the level that corresponds to (i) the level that contains all of the Ratings in the event the Ratings fall within a single level, (ii) the level that contains two Ratings in the event the Ratings from three Rating Agencies fall within two levels, (iii) the second lowest level in the event the Ratings fall within three levels or (iv) the level that contains the lower rating in the event that the District has determined to have Ratings assigned by only two Rating Agencies and the Ratings fall within different levels (it being understood that level 1 is the highest level):

Exhibit "B"

- 2 -

LEVEL	MOODY'S RATING	S&P RATING	FITCH RATING	FEE RATE
Level 1	Aa2 or above	AA or above	AA or above	0.400%
Level 2	Aa3	AA-	AA-	0.425%
Level 3	A1	A+	A+	0.525%
Level 4:	A2	A	A	0.675%
Level 5:	A3	A-	A-	0.825%
Level 6:	Baa1	BBB+	BBB+	1.075%
Level 7:	Baa2	BBB	BBB	1.325%
Level 8:	Baa3	BBB-	BBB-	1.825%

Notwithstanding the foregoing, the Letter of Credit Fee Rate shall be increased by 1.50% per annum from the Letter of Credit Fee Rate in effect immediately prior thereto, (a) in the event that (i) any Rating is withdrawn, suspended or otherwise unavailable from any Rating Agency (other than as a result of the District's determination for reasons other than credit-related reasons or an imminent withdrawal, suspension or downgrade to reduce the number of Rating Agencies assigning Ratings from three to two) or (ii) only one Rating Agency is providing a Rating, and/or (b) upon the occurrence and during the continuance of an Event of Default other than an Event of Default of the type described in clauses (i) and (ii) of Section 7.1(n) of the Agreement. Any change in the Letter of Credit Fee Rate resulting from a change in a Rating shall be and become effective as of and on the date of the announcement of the change in such Rating. References to the Ratings above are references to the rating categories of the Rating Agencies as presently determined by the respective Rating Agencies and in the event of adoption of any new or changed rating system by any Rating Agency, the Ratings from the applicable Rating Agency shall be deemed to refer to the rating category under the new rating system which most closely approximates the applicable rating category as currently in effect. BANA and the District acknowledge that as of the Effective Date the Letter of Credit Fee Rate is that specified above for Level 1.

(2) In the event the Letter of Credit is terminated prior to the first anniversary of the date of this Fee Letter, a termination fee (the "**Termination Fee**") payable on the date of termination equal to the Letter of Credit Fee that would have been payable to the Bank pursuant to preceding paragraph (1) but for the termination of the Letter of Credit for the period from and including the date on which the Letter of Credit is terminated to and including the first anniversary of the date of this Fee Letter assuming (A) a Letter of Credit Fee Rate equal to the Letter of Credit Fee Rate in effect immediately prior to the termination of the Letter of Credit; and (B) a Stated Amount equal to the Stated Amount in effect immediately prior to the termination of the Letter of Credit; provided, however, that the Termination Fee shall not be payable if (1) (A) the Letter of Credit is terminated after the six month anniversary of the date of this Fee Letter and (B) the Bank's (x) unsecured short-term credit rating at the time of termination is below "P-1" by Moody's, below "A-1" by S&P or below "F1" by Fitch or (y) unsecured long-term credit rating at the time of termination is below "A3" by Moody's, below "A-" by S&P or below "A-" by Fitch or (2) the Bank submits a request for payment pursuant to Section 2.2(f) of the Agreement.

(3) A draw fee of \$250 for each drawing under the Letter of Credit, payable on each Business Day on which the Bank honors the amount of any such drawing or, if the District so elects, payable quarterly in arrears along with the Letter of Credit Fee.

(4) The Bank's customary courier fees and wire transfer fees payable promptly following the District's receipt of an invoice therefor.

(5) Upon each transfer of the Letter of Credit in accordance with its terms, a transfer commission equal to \$2,500.

(6) (A) At the time any non-material amendment, waiver, supplement or restatement of the Agreement is requested or (B) in connection with any Bank consent required for any non-material amendment, waiver, supplement or restatement of any Financing Document (other than the Agreement) at the time such consent is sought, a fee of \$2,500 plus reasonable attorneys' fees and expenses, which fee shall be earned and payable whether or not any such amendment, waiver, supplement or restatement is executed or consent granted. Fees for material amendments, waivers, supplements, restatements, supplements and consents shall be negotiated at the time sought.

(7) Within thirty days of the date of this Fee Letter, the fees and expenses of McGuireWoods LLP, counsel to the Bank, incurred in connection with the preparation, negotiation and execution of the Agreement and this Fee Letter, which fees shall not exceed \$3,500.

All amounts paid pursuant to this Fee Letter shall be non-refundable. Computations of the Letter of Credit Fee and the Termination Fee shall be made on the basis of a 360 day year and actual days elapsed. All amounts paid pursuant to this Fee Letter shall be paid in the manner and to the account set forth in the Agreement.

This Fee Letter may not be amended or waived except by an instrument in writing signed by BANA and you.

The provisions of Sections 8.9 and 8.10 of the Agreement shall be incorporated by this reference into this Fee Letter as if such provisions were set forth in their entirety except that references to other agreements or "this Agreement" shall mean this Fee Letter and references to "hereunder" or "hereof" shall mean under this Fee Letter or of this Fee Letter.

This Fee Letter may be executed in any number of counterparts, each of which shall be an original, and all of which, when taken together, shall constitute one agreement. Delivery of an executed signature page of this Fee Letter by electronic transmission shall be effective as delivery of a manually executed counterpart hereof.

This Fee Letter is delivered to you on the understanding that neither this Fee Letter nor any of its terms shall be disclosed, directly or indirectly, to any other person except (1) to your officers, directors, employees, accountants, attorneys, agents and advisors who are directly involved in the consideration of this matter on a confidential and need-to-know basis and for whom you shall be responsible for any breach by any of them of this confidentiality undertaking or (b) under compulsion of law (whether by interrogatory, subpoena, civil investigative demand or otherwise) or by order of any court or governmental or regulatory body, provided that, to the extent permitted, you shall give us reasonable prior notice of such disclosure.

[Remainder of page intentionally left blank.]

Exhibit "B"

- 4 -

Please confirm that the foregoing is our mutual understanding by signing and returning to BANA an executed counterpart of this Fee Letter. This Fee Letter shall become effective as of the date first above referenced upon our receipt of an executed counterpart of this Fee Letter from you.

Very truly yours,

BANK OF AMERICA, N.A.

By: _____

Name: Grace Barvin

Title: Senior Vice President

Exhibit "B"

- 5 -

Accepted and agreed to
as of the date first
written above by:

IRVINE RANCH WATER DISTRICT

By: _____

Name: Mary Aileen Matheis

Title: President