AGENDA IRVINE RANCH WATER DISTRICT BOARD OF DIRECTORS REGULAR MEETING

October 26, 2015

PLEDGE OF ALLEGIANCE

CALL TO ORDER 5:00 P.M., Board Room, District Office

15600 Sand Canyon Avenue, Irvine, California

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

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.

CONSENT CALENDAR

Next Resolution No. 2015-30

Items 3-9

3. MINUTES OF BOARD MEETING

Recommendation: That the minutes of the October 12, 2015 Regular Board Meeting be approved as presented.

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

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

5. IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

Recommendation: That the Board receive and file the report.

CONSENT CALENDAR – Continued

Next Resolution No. 2015-30

Items 3-9

6. SEPTEMBER 2015 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for September 2015, and Disclosure Report of Reimbursements to Board Members and staff; approve the September 2015 summary of payroll ach payments in the total amount of \$1,552,677 and approve the September 2015 Accounts Payable Disbursement Summary of Warrants 361185 through 361857, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$17,783,291.

7. PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILTIES

Recommendation: That the Board authorize a budget increase for project 31213 (5536) in the amount of \$33,000, from \$383,900 to \$416,900, project 30503 (5758) in the amount of \$30,800, from \$240,900 to \$271,700, and project 11804 (5756) in the amount of \$67,100, from \$176,000 to \$243,100; authorize the addition of the Cultivate Street Sewer Improvements project 21286 (6331) to the FY 2015-16 Capital Budget in the amount of \$220,000; and authorize the General Manager to approve Expenditure Authorizations for projects 31213 (5536), 30503 (5758), 11804 (5756) and 31804 (5757).

8. RECOVERY CAPACITY FOR WATER EXCHANGE AGREEMENT

Recommendation: That the Board authorize the General Manager to execute the agreement with Steven Jackson, subject to non-substantive changes, to allow temporary access to the use of IRWD's recovery capacity in the Kern Water Bank in exchange for water transferred to IRWD's Kern Water Bank Storage account.

9. ANNUAL MICROSOFT ENTERPRISE AGREEMENT SOFTWARE MAINTENANCE RENEWAL

Recommendation: That the Board approve the renewal of the Microsoft Enterprise Agreement beginning December 1, 2015 for a total commitment of \$390,000.

ACTION CALENDAR

10. <u>CULVER DRIVE SEWER MANHOLE IMPROVEMENTS CONSTRUCTION</u> <u>AWARD</u>

Recommendation: That the Board authorize a budget increase for project 21169 (5450) in the amount of \$100,000, from \$368,000 to \$468,000; and authorize the General Manager to execute a construction contract with Paulus Engineering, Inc. in the amount of \$319,013 for the Culver Drive Sewer Manhole Improvements, project 21169 (5450).

ACTION CALENDAR - Continued

11. <u>INITIAL DISINFECTION FACILITY SODIUM HYPOCHLORITE</u> STORAGE AND FEED SYSTEM VARIANCE

Recommendation: That the Board authorize the General Manager to execute Variance No. 1 in the amount of \$169,914 with Carollo Engineers for the final design of the initial disinfection facility sodium hypochlorite storage and feed system, project 11838 (6213).

12. <u>PROFESSIONAL SERVICES AGREEMENT FOR FATS, OILS AND</u> GREASE PROGRAM

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Environmental Engineering and Contracting, Inc. to provide fog program administration support services in the amount of \$165,950 for the period of November 1, 2015, to October 31, 2016.

13. <u>MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY</u> RECOVERY FACILITIES CONTRACT CHANGE ORDER AND VARIANCE

Recommendation: That the Board approve Contract Change Order No. 34 in the amount of \$164,775.28 for changing the manufacturer of knife gate valves and providing addressable smoke detectors, and credits that include IRWD costs related to overtime inspection, special inspections and review of submittals after the second time with Filanc/Balfour-Beatty; and authorize the General Manager to execute Variance No. 4 in the amount of \$370,570 with Black & Veatch for providing supplemental start-up services for Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities, project 21146 (4286).

14. REVISED WATER BANKING, TRANSFERS AND WHEELING POLICY POSITION PAPER

Recommendation: That the Board approve the revised Water Banking, Transfer and Wheeling Policy position paper.

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.

OTHER BUSINESS - Continued

- 15. A. General Manager's Report
 - B. Directors' Comments
 - C. CLOSED SESSION: Conference with Legal Counsel relative to: Anticipated litigation Government Code Section 54956.9(d)(2) significant exposure to litigation regarding claims or notification by Craig Realty Group, et al., to IRWD of potential liability under Government Claims Act for water damage occurrence at 4100 MacArthur Blvd., on file with the District (six potential cases)
 - D. Open Session
 - E. 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.

October 26, 2015

Prepared and

Submitted by: L. Bonkowski

Approved by: P. Cook

CONSENT CALENDAR

MINUTES OF BOARD MEETING

SUMMARY:

Provided are the minutes of the October 12, 2015 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE OCTOBER 12, 2015 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – Minutes

EXHIBIT "A"

MINUTES OF REGULAR MEETING – OCTOBER 12, 2015

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 LaMar on October 12, 2015 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, LaMar and Swan.

Directors Absent: Withers and Matheis.

Also Present: General Manager Cook, Executive Director of Finance and Administration Clary, Executive Director of Engineering and Planning Burton, Executive Director of Water Policy Weghorst, Director of Water Resources Sanchez, Director of Human Resources Roney, Executive Director of Operations Sheilds, Director of Treasury and Risk Management Jacobson, Legal Counsel Arneson, Secretary Bonkowski, Ms. Christine Compton, Mr. Matt Veeh, Mr. Eric Akiyoshi, Ms. Debbie Kanoff, Mr. Bruce Newell, Mr. Jim Reed, and other members of the public and staff.

WRITTEN AND ORAL COMMUNICATIONS: None.

CONSENT CALENDAR

Relative to Item No. 4, Director Reinhart noted that he will not be able to attend a meeting with the South Orange County Agencies' group on October 21, 2015 as listed. There being no further comments, on <u>MOTION</u> by Swan, seconded and unanimously carried, CONSENT CALENDAR ITEMS THROUGH THROUGH 6 WERE APPROVED AS FOLLOWS:

3. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the September 28, 2015 Regular Board meeting be approved as presented.

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

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

CONSENT CALENDAR (CONTINUED)

5. RESOLUTION OF COMMENDATION FOR LAURENCE LIZOTTE

Recommendation: That the Board adopt the following resolution by title commending Laurence Lizotte for his years of dedicated service to Moulton Niguel Water District.

RESOLUTION NO. 2015-29

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT COMMENDING MR. LAURENCE R. LIZOTTE FOR HIS YEARS OF DEDICATED SERVICE TO MOULTON NIGUEL WATER DISTRICT

6. 2015 LEGISLATIVE UPDATE

Recommendation: Receive and file.

ACTION CALENDAR

WATER SUPPLY RELIABILITY STUDY BUDGET INCREASE

General Manager Cook reported that in 2014, the Board approved a Professional Services Agreement with HDR Engineering, Inc. to update the District's 2008 Water Supply Reliability Study which would include evaluation of impacts of various supply and system interruption scenarios and will include development of enhanced modeling tools.

Using a PowerPoint presentation, Director of Water Resources Sanchez reported on the study's objectives; an IRWD project overview; demands and supply forecasts; coordination efforts with regional planning; scenario development; modeling; and schedule.

Ms. Sanchez then noted that to enhance this update to the Water Supply Reliability Study, staff has determined that additional work is required that was not included in HDR's original scope of work. The additional work to be performed by HDR includes: 1) additional project management requirements to align IRWD's Water Supply Reliability Study with information being developed by the Municipal Water District of Orange County (MWDOC) for its Orange County Reliability Study as well as information being developed by Metropolitan Water District of Southern California (Metropolitan) for its Integrated Resources Plan update. Included are two additional meetings that are needed to further coordinate with Metropolitan and MWDOC. The variance also includes: 1) additional project management time to accommodate weekly conference calls requested by staff; 2) a requirement to conduct an additional workshop to provide input to HDR relative to the Demand Tool that is being developed for the Water Supply Reliability Study; 3) a workshop that will allow HDR and staff to discuss the complexity of the Orange County Groundwater Basin supply sources and to conceptualize how the Orange County Groundwater Basin will be simulated in the model that is being developed to evaluate each supply and system

reliability scenario; 4) a scenario planning workshop with staff and various technical experts; and 5) inclusion of one additional scenario in the preparation of the updated Water Supply Reliability Study. This request will allow the evaluation of multiple levels of uncertainties in future Colorado River flows. Following discussion on the Board's interest relative to additional analysis and input, President LaMar asked staff to schedule a future workshop on this item. On MOTION by LaMar, seconded and unanimously carried, THE BOARD AUTHORIZED A BUDGET INCREASE TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$72,500 FOR PROJECT 11808 (6013).

SAND CANYON PROFESSIONAL CENTER – PHASE II DEVELOPMENT DESIGN CONSULTANT RECOMMENDATIONS

Director of Treasury and Risk Management Jacobson reported that Phase II of the District's approved Sand Canyon Professional Center's master plan includes the planned construction of the 71,000 square foot professional office building on the remaining vacant land. Mr. Jacobson said that with improvements in office construction and leasing activity in the Irvine area, the District's brokers began marketing a build-to-suit office building on the site in June 2014. Based on initial feedback and concerns expressed by potential tenants and other commercial brokers regarding the previous conceptual building design, IRWD retained architects Ware Malcomb to provide revised conceptual designs for the future Phase II office building.

Mr. Jacobson said that staff identified and requested proposals from three qualified firms to provide architectural, engineering and landscape design services for the Phase II office project and included LPA (architect for the Sand Canyon headquarters facility), Lee & Sakahara Architects (architect for the District's medical office property) and Ware Malcomb. Based on proposals received, staff recommends that the District retain Ware Malcomb to provide required architectural services for the project. Mr. Jacobson said that staff also requested proposals from three qualified firms to provide civil engineering services for this project and included Fuscoe Engineering, RBF Consulting and Hall & Foreman of which the latter did not submit a proposal. He said based on the proposals received, staff recommends that Fuscoe Engineering be retained to provide required civil engineering services for the project.

Director Swan reported that this item was reviewed by the Asset Management Committee on December 9, 2014, March 12, 2015, June 30, 2015 and September 29, 2015, and with the current economic situation recovering and limited vacant professional offices, the Committee concurs with the staff recommendation. On MOTION by Swan, seconded and unanimously carried, THE BOARD APPROVED THE RETENTION OF WARE MALCOMB TO PROVIDE ARCHITECTURAL SERVICES FOR THE SAND CANYON PROFESSIONAL CENTER PHASE II OFFICE BUILDING; AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH WARE MALCOMB FOR AN AMOUNT NOT TO EXCEED \$419,000; APPROVED THE RETENTION OF FUSCOE ENGINEERING TO PROVIDE CIVIL ENGINEERING SERVICES FOR THE SAND CANYON PROFESSIONAL CENTER PHASE II OFFICE BUILDING AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONTRACT WITH FUSCOE ENGINEERING FOR AN AMOUNT NOT TO EXCEED \$143,000.

GENERAL MANAGER'S REPORT

General Manager Cook reported on today's management team meeting discussing potential goals and target activities for 2016 in preparation of November's Strategic Planning Workshop.

Mr. Cook also reported on water conservation efforts for September which were 13% for potable water. Ms. Fiona Sanchez provided an update on next steps for additional conservation efforts.

DIRECTORS' COMMENTS

Director Swan said that he attended a Clean Tech Orange County conference, a MWDOC Board workshop, a WACO meeting, a Newport Beach Chamber of Commerce meeting, a tour of projects in the Newport Bay Watershed, and an Irvine Historical Society event.

Director Reinhart reported that he attended his regular monthly meetings.

Director LaMar reported that he attended a WACO meeting, the 2015 Solar Decathlon's opening ceremony in Irvine, and a Natural Communities meeting.

Consultants Newell and Reed reported on meetings they attended on the District's behalf.

ADJOURNMENT

Director La Mar adjourned the meeting at 6:10 p.m.

APPROVED and SIGNED this 26th day of October, 2015.

President, IRVINE RANCH WATER DISTRICT
Secretary IRVINE RANCH WATER DISTRICT

October 26, 2015

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 10/16/15 OCSD 2015 State of the District Event 10/28/15 UCI School of Social Ecology Awards Event 10/29/15 Southern California Water Committee Annual Meeting 10/30/15 NWRI Clark Prize Conference & Awards Event Peer Swan 10/22/15 ACEC Meet Your Elected Officials Reception Event 10/23/15 Newport Beach Chamber of Commerce 2016 Economic Forecast 10/30/15 NWRI Clark Prize Conference & Awards Event John Withers 10/28/15 UCI School of Social Ecology Awards Event 10/29/15 ISDOC Quarterly Meeting Southern California Water Committee Annual Meeting 10/29/15 NWRI Clark Prize Conference & Awards Event 10/30/15

RECOMMENDATION:

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

LIST OF EXHIBITS:

None

October 26, 2015

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" – September 2015 Strategic Measures

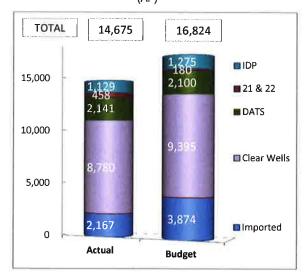
IRVINE RANCH WATER DISTRICT

Operational Performance Measures

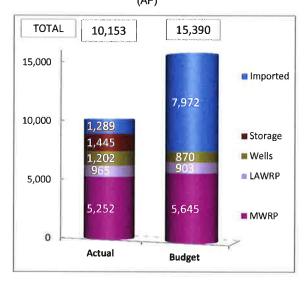
Data as of September 30, 2015

Potable Water Production FYTD

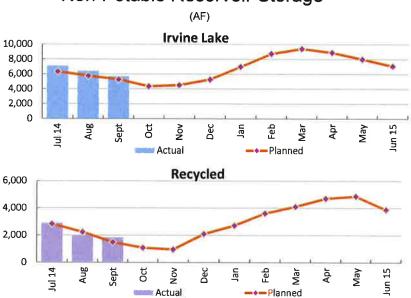
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Non-Potable Water Production FYTD

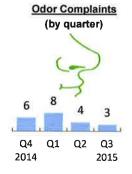


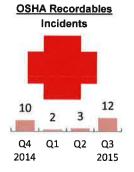
Non-Potable Reservoir Storage

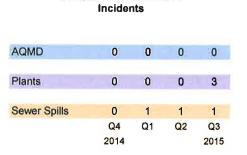


Cost Per MG At MWRP FYTD









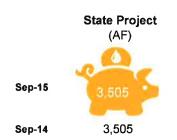
Regulatory Compliance

IRVINE RANCH WATER DISTRICT

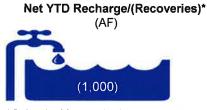
Other Statistical Information

Data as of September 30, 2015

Banked Water







*Calendar Year including extraordinary supply received.

Certificates of Occupancies FYTD





	AF	GPCD
Jun-Sep 2015	20,154	71
Jun-Sep 2013	24,147	92
Reduction	16.5%	23%
State Mandate	16.0%	

Acre-Feet Per Acre Irrigation

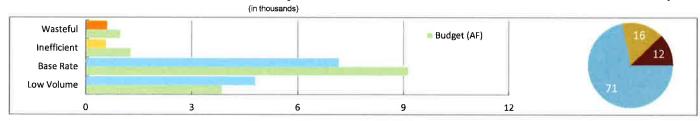


ET Based Allocation

FY15-16 Q1	0.28	0.50
FY12-13 Q1	0.31	0.49

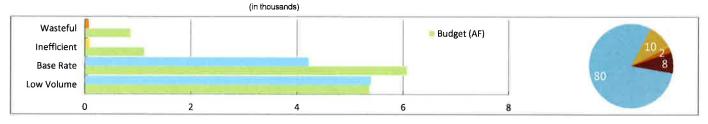
Potable Sales by Tier FYTD

% of Customers by Tier

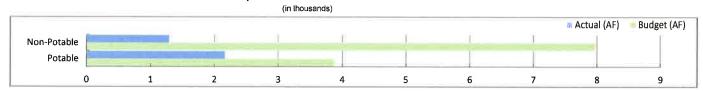


Non-Potable Sales by Tier FYTD

% of Customers by Tier



Imported Water FYTD





Customer Satisfaction Index**



October 26, 2015

Prepared by: Jennifer Davis/Tanja Fournier Submitted by: Robert Jacobson/Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

SEPTEMBER 2015 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for September 2015. This Investment Summary Report is in conformity with the 2015 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 September 30, 2015, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,552,677, as outlined in Exhibit "C".
- D. The September 30, 2015 Disbursement Summary of warrants 361185 through 361857, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$17,783,291 as outlined in Exhibit "D".
- E. The Disclosure Report of Reimbursements to Board Members and Staff for September 2015, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of September 30, 2015, the book value of the investment portfolio was \$248,017,105, with a 0.55% rate of return and a market value of \$248,101,322. Based on the District's September 30, 2015 quarterly real estate investment rate of return of 12.84%, the weighted average return for the fixed income and real estate investments was 3.28%.

As of September 30, 2015, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in September from all swaps was negative \$601,279.

Payroll ACH payments totaled \$1,552,677, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for September totaled \$17,783,291.

Consent Calendar – September 2015 Treasury Reports October 26, 2015 Page 2

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 SEPTEMBER 2015, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE SEPTEMBER 2015 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,552,677 AND APPROVE THE SEPTEMBER 2015 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 361185 THROUGH 361857, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$17,783,291.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" - Monthly Interest Rate Swap Summary

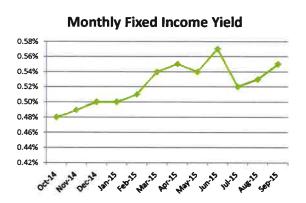
Exhibit "C" - Monthly Payroll ACH Summary

Exhibit "D" – Monthly Summary of District Disbursements

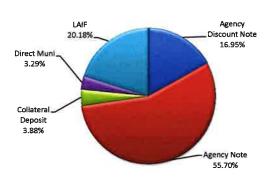
Exhibit "E" - Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary September 2015



Portfolio Distribution



Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	138,000,000	138,295,063	138,347,570
LAIF	50,000,000	50,000,000	50,029,732
Agency Discount Note	42,000,000	41,980,892	41,982,870
Collateral Deposit	9,583,260	9,583,260	9,583,260
Direct Muni	8,157,889	8,157,889	8,157,889
Grand Total	247,741,149	248,017,105	248,101,322





Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Bank	75,000,000	30.27%
Fed Home Loan Mortgage Corp	55,000,000	22.20%
State of California Treasury - LAIF	50,000,000	20.18%
Fed Natl Mortgage Assoc	25,000,000	10.09%
Fed Farm Credit Bank	20,000,000	8.07%
ETWD	8,157,889	3.29%
Citi-Group Collateral	7,373,260	2.98%
Fed Ag Mortgage Corp	5,000,000	2.02%
Merrill Lynch Collateral	2,210,000	0.89%

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156'1)	00,022,799,4	₹ 105,999,4 75 102,999,4	00 005'666'7		%5180	%0180	000,000,2	Fed Farm Credit Bank	FFCB - Note	AM/+AA\BBA	71/82/60		Continuous siles	€1/67/60
694,11	5,010,300,00	28 0E2,899,4	00 002,899,4	%096 0		%006 0	000,000,2	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA\+AA\86A	L1/\$1/60		ann TanO	\$1/91/60
816,1	00,002,000,2	87 182,899,4	00 002,899,4		%7490	%579 0	000,000,2	Fed Home Loan Bank	FHLB - Note		L1/0E/S0	V/N	Comments	\$1/12/80
1000	00'008'666'6	10'000'000 00	00,000,000,01	%028.0		%078 0	10,000,000	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA\+AA\eeA AAA\+AA\eeA	/1/8Z/t0	51/87/10	A\N'	10/28/14
556'01	00 004, 200, 2	05 444,266,4	00 056,066,4		%127.0	0 625%	000'000'5	Fed Home Loan Mortgage Corp Fed Home Loan Bank	FHLB - Note	AAA\+AA\ssA SIA+AA\seA	71/05/50	, ,	A/M	51/51/90
2,363	5,023,450.00	\$5,064,663,48 \$,021,086,54	00.002,120,2		%0LS 0 %ZES 0	%\$Z8 0 %\$Z9 1	000,000,2 000,000,2	Fed Home Loan Bank	LHTWC - Nore LHTB - Nore	AAA\+AA\&&A	91/60/71	A/M	AW	51/17/60 51/17/60
786	00'056'790'5	86 533 630 2	00,000,000,2	%009°0		%509 t	000,000,2	Fed Home Loan Mongage Corp Fed Home Loan Bapl:	LHTWC - NOR	NV+AA\8&A	91/60/21		Quanchy	\$1/12/60 \$1/8Z/11
509,8	00,028,200,2	5,020,144.44	00,000,220,2	76009 0	%8/5'0	%009 0 %046 0	000,000,2	Fed Ag Mortgage Corp	FAMCA - Note	NK	91/\$1/11 91/£1/01	AW 21/21/20	V/N	51/51/90
186,2	00,007,21,01	12 816,751,01	10,184,900,00		%/.9t 0	%000 Z	10,000,000	Fed Home Loan Mortgage Corp	FALMC - Note	AAA\+AA\esA	91/57/80	VIN	V/N	51/60/90
200	00 002 001 01	00 000,000,2	00,000,000,2	%055'0		%0SS 0	000,000,2	Fed Farm Credit Bank	ELCB - Note	AAA\+AA\ssA	91/67/10		THE PERSONS	
1272,4	00.025,000,2	72 778,299,4	00 00£,886,4	70000	%t8t 0	%5/E'0	000,000,2	Fed Mail Mortgage Assoc	FMMA - Note	AAA\+AA\&&A	91/50/40	V/N	A/M	⊅1/80/ ⊊0
1,502,1	00,007,699,4	\$1.961,860,4	59 160 966 ₽		%tZt 0	%5LE 0	000'000'\$	Fed Home Loan Mortgage Corp	EHTMC - NOFE	AAA\+AA\&BA	91/47/90	A/N	¥/N	₱1/0Z/11
878,2)	4,995,200,00	17 840,100,2	00,024,100,2		%StE 0	%SLE'0	000,000,2	Fed Home Loan Bank	FHLB - Note	AM/+AA\asA	91/\$7/90	A/N	V/N	51/10/40
.05	00 005,669,4	17 644'666'4	00'002'666'\$		%5SE 0	%07E 0	000'000'5	Fed Home Loan Bank	FHLB - Note	AN/+AA\&&A	91/07/90	AIN	¥/N	\$1/1/0/90
(85)	00,026,070,2	18 655,170,2	00.028,111,2		%+0E 0	%005 Z	5,000,000	Fed Home Loan Mortgage Corp	FHLMC - Note	AAA\+AA\&&A	91/17/50	A/N	A/M	02/50/12
1,265,1	00,022,999,550,00	84 482,886,48	4,997,285 00		%50£ 0	%057 0	5,000,000	Fed Home Loan Bank	FHLB - Note	AN/+AA\&&A	91/81/50	V/N	V/N	£1/07/\$0
889	3,000,420 00	42 157,999,131,54	2,999,565 00		0312%	%00€"0	000,000,E	Fed Home Loan Bank	FHLB - Note	AM/+AA\88A	91/10/50	A/M	A\W	\$1/07/\$0
796	00 056,899,0	\$1 780,790,\$	4,994,250 00		%8tt 0	%06€ 0	000,000,2	Fed Farm Credit Bank	FFCB - Note	AAA\+AA\re	91/57/10		Continuous after	⊅ 1/6Z/ ⊅ 0
1,484,1	00.001,000,2	4,998,615 89	00 027,599,4	%7180		%0SE 0	000,000,2	Fed Farm Credit Bank	FFCB - Note	AAA\+AA\beA	91/01/£0		WAS	b[/b[/50
· 69L	00 008,266,6	9,992,030 55	22 797, 589, 6		%E610	%0610	000,000,01	Fed Matl Mortgage Discount Note	FMMA - Discount Note	ЯN	91/97/70	A/M		\$1/87/10
761	00.001,599,9	87 200,260,6	79.167,686,6		%871.0	%SLI 0	10,000,000	Fed Home Loan Mortgage Corp -Discount Mote	FHLB - Discount Note FHLMC - Discount Note	NK	02/24/16	AW	YIN	51/55/12
916	00 006'266'7	E4 582,799,4	E8 249,266,4		%751 0 %06£ 0	%0510 %54£0	000,000,2	Fed Home Loan Bank Fed Home Loan Bank Discount Mote	FHLB - Note	NA/AA+/AAA WR	91/57/10		YOU	£1/51/10
1,222,1	00 007,500,8	5,001,477 23	00.027,766,4		%1770	%SLE 0	000,000,2	Fed Matl Mortgage Assoc	FUMA - Note	AAA\+AA\668A	17/21/12	A/N	VA	b1/2/50
. 666 I	5,000,200 00	69 590,100,2	00 078,200,2	%007"0		%00E'0	000,000,2	Fed Home Loan Bank	FHLB - Note	NV/+AA\seA	17/18/12	V/N	WN	₹1/6Z/01
E64	00 001,100,2	34 306,000,2	00 001,200,8	%5520		%04Z 0	000,000,2	Fed Mail Mortgage Assoc	FUMA - Note	NV/+AA\68A	\$1/01/21	V/N	Vin	#I/60/01
. 448	00 007 666°L	ES 228,899,7	78,888,7	,0000	%1010	0 100%	000,000,8	Fed Home Loan Bank Discount Note	FHLB - Discount Note	MR	\$1/53/11	V/N	YAS	51/1/2/60
. E6	00 029,699,4	4,999,556.26	00 SE9,860,4		%£61 0	0 125%	000,000,2	Fed Home Loan Bank	FHLB - Note	AN/AN/88A	51/81/11	W/N	WIN	Þ1/61/11
213	3,999,920 00	ET 307, 999, E	3,999,426 80		0 122%	0 150%	000,000,4	Fed Home Loan Bank Discount Note	FHLB - Discount Note	NR	\$1/87/01	A\W	VX	\$1/01/60
103	00 056,699,4	ES 948,999,4	24 255,869,4		%980 0	%\$80 0	000,000,2	Fed Home Loan Bank Discount Note	FHLB - Discount Note	NR	51/41/01	A\v	YN	\$1/97/\$0
751,62	0£ 2£7,620,0≳	00 000'000'05\$	00 000,000,022		%0££ 0		000'000'05\$	State of California Tsy	LAIF		\$1/10/01			\$ I/ \ \Z/60
CYIN(FORZ	9/30/2015 WARKET VALUE ⁽¹⁾	CARRY VALUE	ORIGINAL	YIFC	ALEED	DISCOUNT	AAq Amount	INSTITUTION /	LABE	Rating	Maturity Date	[mitial Call	Schedule Call	SETTLMT *

\$1/0E/60

INVESTMENT SUMMARY REPORT

SUMMARY OF MATURITIES SUMMARY OF MATURITIES

\$1/08/60

OF PORTEOU IO			%81 UC	%0UL SS	%50 91	7088 E	3 300°C
SJATO	671'172'477\$	%00.001	000'000'0\$\$	8138,000,000	000°000°Z \ \$	097,583,268	688°LS1°8\$
9£07/0£/7	688,721,8	%6Z.£					688,721,8
	-						
	-						
L102/1E/21 - L1/0E/0	000'000'\$	%20.2		000'000'5			
L107/08/6 - L1/10/L0	10,000,000	% † 0.4		10,000,000			
L1/0E/90-L1/10/b	12,000,000	%\$0.9		12,000,000			
/1/2017 - 3/31/2017	10,000,000	% † 0.4		10,000,000			
9107/18/71 - 91/10/60	12,000,000	%50.9		12,000,000			
3 Months - 3 YEARS							
NB-TOTAL	8184,583,260	%I <i>S</i> .47	000'000'05\$	000'000'E8\$	000°000°7†\$	097'885'6\$	
91/80	10,000,000	%t0.t		10,000,000			
91/20	10,000,000	%t0.t		10,000,000			
91/90	15,000,000	%50.9		15,000,000			
91/50	13,000,000	%52.2		13,000,000			
91/70	000'000'\$	%70.2		000,000,2			
91/80	14,583,260	%68.2		000'000'ς		097'885'6\$	
91/70	20,000,000	%40.8			000'000'07		
91/10	10,000,000	%t0.t		000,000,2	000,000,2		
51/2	15,000,000	%\$0.8		12,000,000			
SI/I	13,000,000	%52.2		000,000,2	000,000,8		
\$1/0	000'000'6	%£9.£			000'000'6		
\$1/60	000'000'05\$	%81.02	000'000'05\$				
ATE	TATOT	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	Direct Muni

Irvine Ranch Water District Summary of Real Estate 9/30/2015

	ACQUISITION DATE	PROPERTY TYPE	OWNERSHIP INTEREST	_	ORIGINAL COST	RATE OF RETURN QUARTER ENDED Sep-15
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$	43,550,810	16.97%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$	6,000,000	8.53%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$	5,739,845	4.68%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$	8,630,577	5.15%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$	8,648,594	8.12%
				\$	72,569,826	12.84%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT INVESTMENT ACTIVITY

September 2015

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
9/10/2015	FHLMC - Note	\$5,000,000	0.17%	9/10/2015	10/23/2015	FHLB - Discount Note	\$4,000,000	0.12%
9/21/2015	FHLMC - Note	\$5,000,000	0.75%	9/14/2015	4/30/1936	ETWD - Direct Muni	\$1,942,025	4.57%
9/21/2015	FHLMC - Note	\$5,000,000	0.76%	9/16/2015	9/15/2017	FHLMC - Note	\$5,000,000	0.92%
9/24/2015	FHLMC - Discount Note	\$10,000,000	0.08%	9/21/2015	12/9/2016	FHLB - Note	\$5,000,000	0.53%
9/29/2015	FFCB - Note	\$5,000,000	1.03%	9/21/2015	2/22/2017	FHLMC - Note	\$5,000,000	0.57%
9/30/2015	FHLMC - Note	\$7,500,000	0.88%	9/24/2015	11/23/2015	FHLB - Discount Note	\$8,000,000	0.10%
				9/29/2015	09/28/20107	FFCB - Note	\$5,000,000	0.82%
				Υ _Δ				

9/30/2015 Exhibit "B"

IRVINE RANCH WATER DISTRICT INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL

September 30, 2015

	Prior Mo.	Current Mo.	12-Mo Avg
LIBOR Avg %	0.20%	0.20%	0.18%

	Current Fiscal Year Active Swaps								Cash Flow (Since 6/06)				(Since 6/06)		Mark to	Marf	ket
Effective Date	Maturity Date	Years to Maturity	Counter Party	No	otional Amt	Туре	Base Index	Fixed Rate	Pr	or Month Month		Fiscal YTD	Cumulative Cash Flow	Cui	rrent Mark to Market		Notional Difference
F	ixed Payer	Swaps - I	By Effectiv	e Da	ate												
6/4/2006	6/4/2019	3.7	ML	\$	20,000,000	FXP	LIBOR	6.200%		(103,377)	(96,527)	\$ (300,107)	\$ (8,955,074)	\$	16,255,996	\$	(3,744,004
6/4/2006	6/4/2019	3.7	CG		20,000,000	FXP	LIBOR	6.200%		(103,377)	(96,527)	(300,107)	(8,955,074)		16,252,093		(3,747,907
6/17/2006	6/17/2019	3.7	CG		30,000,000	FXP	LIBOR	6.140%		(153,512)	(143,331)	(445,703)	(13,283,606)		24,397,882		(5,602,118
3/10/2007	3/10/2029	13.5	ML		30,000,000	FXP	LIBOR	5.687%		(141,833)	(132,447)	(411,766)	(11,921,574)		17,262,183		(12,737,817
3/10/2007	3/10/2029	13.5	CG		30,000,000	FXP	LIBOR	5.687%		(141,833)	(132,447)	(411,766)	(11,921,574)		17,228,077		(12,771,923
otals/Weig	hted Avgs	8.2		\$	130,000,000			5.949%	\$	(643,932) \$	(601,279)	\$ (1,869,449)	\$ (55,036,903)	\$	91,396,231	\$	(38,603,769
Total Curre					130.000.000					(643,932) \$	(004.000)	\$ (1,869,449)	\$ (55,036,903)	\$	91,396,231	\$	(38,603,769

	Current Fiscal Year Terminated Swaps												
Effective Date	Maturity Date	Counter Party	Notional Amt	Туре	Base Index	Fixed Rate							

	Cas	h Flow	
Prior	Current		Cumulative
Month	Month	Fiscal YTD	Cash Flow

Mark to Market

Current Mark to Notional

Market Difference

Total Current Year Terminated Swaps

Current Fiscal Year - Total Swaps

Mark to Market



Cash Flow Comparison Synthetic Fixed vs. Fixed Rate Debt

Cash Flow to Date

Synthetic Fixed = \$78,806,026

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

September 2015

100-	AMOUNT	VENDOR	PURPOSE
9/4/2015 9/18/2015	767,411.32 785,265.60 \$1,552,676.92	BANK OF AMERICA BANK OF AMERICA	ACH Payments for Payroll ACH Payments for Payroll

Exhibit "D"

>

IRWD Ledger Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT-2015 10:52

BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 1

Bank Account 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
	ent : IRWD CHECK						
361185	03-SEP-15	Trementozzi, Cody		156.60	15-SEP-15	156.60	Reconciled
361186	03-SEP-15	Trementozzi, Cody Drake, Kenneth W (Ken)		1,602.48	09-SEP-15	1,602.48	Reconciled
361187	03-SEP-15	Borowski, Michael		183.58	14-SEP-15	183.58	Reconciled
361188	03-SEP-15	Borowski, Michael Savedra, Nancy H (Nancy)		65.00	08-SEP-15	65,00	Reconciled
361189	03-SEP-15	COUNTY OF ORANGE	1241 E DYER RD	9,868.00	23-SEP-15	9,868.00	Reconciled
361190	03-SEP-15	COUNTY OF ORANGE	1241 E DYER RD	6,354.00	23-SEP-15	6,354.00	Reconciled
361191	03-SEP-15	COUNTY OF ORANGE	1241 E DYER RD	3,440.00	23-SEP-15	3,440.00	Reconciled
361192	03-SEP-15	4IMPRINT, INC.		597.05	08-SEP-15	597.05	Reconciled
361193		ADT SECURITY SERVICES INC		395.26	14-SEP-15	395,26	Reconciled
361194	03-SEP-15	AIRGAS, INC. AKENAGA, HARUSATO		620.60	08-SEP-15	620.60	Reconciled
361195	03-SEP-15	AKENAGA, HARUSATO		29.33			Negotiable
361196	03-SEP-15	ALEXANDER'S CONTRACT SERVICES INC.		108,855.12	10-SEP-15	108,855.12	Reconciled
361197	03-SEP-15	ALPHA TRAFFIC SERVICES, INC.		570.00	09-SEP-15	570,00	Reconciled
361198	03-SEP-15	AMCAL GENERAL CONTRACTORS		651.87	09-SEP-15	651.87	Reconciled
361199	03-SEP-15	ANTHONY N. LARSEN		600.00	08-SEP-15	600,00	Reconciled
361200	03-SEP-15	APPLIED INDUSTRIA TECHNOLOGIES - CA LLC		80.92	08-SEP-15	80.92	Reconciled
361201	03-SEP-15	ARC		409.57	09-SEP-15	409.57	Reconciled
361202	03-SEP-15			289.97	08-SEP-15	289.97	Reconciled
361203	03-SEP-15	AT&T		51.38	09-SEP-15	51,38	Reconciled
361204		AUTOZONE PARTS, INC.			14-SEP-15	91,57	Reconciled
361205		AUZA, MARIE		42.93	08-SEP-15	42,93	Reconciled
361206	03-SEP-15	BATTERIES PLUS AN BATTERIES PLUS BULBS	D	20.47	08-SEP-15	20.47	Reconciled
361207	03-SEP-15	BIGWIG MONSTER, LLC		7,200.00	09-SEP-15	7,200.00	Reconciled
361208	03-SEP-15	BILINGUAL TRAININ INSTITUTE	G	5,730.00	10-SEP-15	5,730.00	Reconciled
361209	03-SEP-15	BILL'S SWEEPING SERVICE INC		747.50	09-SEP-15	747.50	Reconciled
361210	03-SEP-15	BIOMERIEUX INC		619.86	08-SEP-15	619,86	Reconciled
361211	03-SEP-15	BOUDREAU PIPELINE CORP		1,084.32	28-SEP-15	1,084.32	Reconciled
Bank Acco	America N.A. Bran unt Currency: USD (US Type: All	ch : Los Angeles		or 01-SEP-15 To Account: Check Payment Curr Dlay Supplier Add	ing AP and PR ency: USD (Page:	-OCT-2015 10:52 2

Cleared Supplier Name Site Cleared Amount Status Payment Number Sequence Num Date Payment Amount Date Payment Document : IRWD CHECK 361212 03-SEP-15 BOWIE, ARNESON, 23,822.83 17-SEP-15 23,822.83 Reconciled WILES & GIANNONE 361213 03-SEP-15 BOYD & ASSOCIATES 3,438.00 08-SEP-15 3,438.00 BRISTOL STREET PARTNERS LLC 361214 03-SEP-15 1,091.67 09-SEP-15 1,091.67 Reconciled 361215 03-SEP-15 BUCCOLA LANDSCAPE 55.76 09-SEP-15 55.76 Reconciled SERVICES 03-SEP-15 BURKE, WILLIAMS & 00-SEP-15 195.00 Reconciled 361216 SORENSEN, LLP CALIFORNIA 03-SEP-15 5,292.50 14-SEP-15 5,292.50 Reconciled 361217 BARRICADE INC 10-SEP-15 Reconciled 361218 03-SEP-15 CALIFORNIA PACIFIC 4.20 4.20 HOMES CALIFORNIA URBAN WATER CONSERVATION 6,971.79 6,971.79 361219 03-SEP-15 09-SEP-15 Reconciled COUNCIL CANON SOLUTIONS
AMERICA, INC.
CAPTIVE AUDIENCE
MARKETING INC. 03-SEP-15 407.01 08-SEP-15 407.01 Reconciled 361220 361221 03-SEP-15 123.12 09-SEP-15 123,12 Reconciled 361222 03-SEP-15 CEPA OPERATIONS, 589.04 09-SEP-15 589.04 Reconciled TNC 361223 03-SEP-15 CHAE, HEE 51.51 10-SEP-15 51.51 Reconciled CHEM TECH INTERNATIONAL INC 361224 03-SEP-15 13,516.80 24-SEP-15 13,516.80 Reconciled

361225	03-SEP-15	CHEN, JOY	32.59	08-SEP-15	32.59	Reconciled
361226	03-SEP-15	CHOI, JUNG	26.63	08-SEP-15	26,63	Reconciled
361227	03-SEP-15	CITY OF IRVINE	5,625,60	10-SEP-15	5,625.60	Reconciled
361228	03-SEP-15	CITY OF NEWPORT	7,942.00	15-SEP-15	7,942.00	Reconciled
		BEACH				
361229	03-SEP-15	CLEARINGHOUSE	477.67	11-SEP-15	477.67	Reconciled
361230	03-SEP-15	COASTAL IGNITION &	1,976.07	09-SEP-15	1,976.07	Reconciled
		CONTROLS, INC				
361231	03-SEP-15	COMPUCOM SYSTEMS,	7,165.47	08-SEP-15	7,165.47	Reconciled
		INC.				
361232	03-SEP-15	COUNTY OF ORANGE	3,096.00	23-SEP-15	3,096.00	Reconciled
361233	03-SEP-15	COX COMMUNICATIONS	102,46	08-SEP-15	102.46	Reconciled
361234	03-SEP-15	CURRAN, BARBARA	22,76	18-SEP-15	22,76	Reconciled
361235	03-SEP-15	DATAZEO, INC.	71.52	09-SEP-15	71,52	Reconciled
361236	03-SEP-15	DEE JASPAR &	4,578.19	15-SEP-15	4,578.19	Reconciled
		ASSOCIATES, INC.				
361237	03-SEP-15	DEX MEDIA INC.	75.75	14-SEP-15	75,75	Reconciled
361238	03-SEP-15	DMS FACILITY	16,653.86	10-SEP-15	16,653.86	Reconciled
		SERVICES, INC.				
361239	03-SEP-15	E.J. MEYER	882,683.76	14-SEP-15	882,683.76	Reconciled
		COMPANY, INC.	•			
IRWD Ledger		Payment Register F	or 01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10:52

Account: Checking AP and PR Page
Payment Currency: USD (US Dollar)
Display Supplier Address: No Page: Branch : Los Angeles BANK: Bank of America N.A.

Bank Account Currency: USD (US Dollar) Payment Type: All

Payment Number Sequen	oo Num Dato	Supplier Name Si	te Payment Amount	Cleared	Cleared Amount	Statu
Payment Document : I	RWD CHECK					
361240	03-SEP-15	E.J. MEYER COMPANY, INC.	46,457.04	10-SEP-15	46,457.04	Reconciled
361241	03-SEP-15	ENRIQUES, ROBERT	32.47	08-SEP-15	32,47	Reconciled
361242		ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	9,236.25	09-SEP-15	9,236.25	Reconciled
361243	03-SEP-15	ENVIRONMENTAL EXPRESS INC	2,539.16	08-SEP-15	2,539.16	Reconciled
361244	03-SEP-15	ENVIRONMENTAL SCIENCE ASSOCIATES	1,243.75	09-SEP-15	1,243.75	Reconciled
361245	03-SEP-15	EXECUTIVE LIGHTING & ELECTRIC	1,326.73	09-SEP-15	1,326.73	Reconciled
361246	03-SEP-15	FISHER SCIENTIFIC COMPANY LLC	3,614.60	08-SEP-15	3,614.60	Reconciled
361247	03-SEP-15	FLEET SOLUTIONS	97.20	10-SEP-15	97.20	Reconciled
361248	03-SEP-15	FRANK LA PLACA EXTERMINATING INC	175.00	11-SEP-15	175.00	Reconciled
361249	03-SEP-15	FULLER TRUCK ACCESSORIES	1,352.16	08-SEP-15	1,352.16	Reconciled
361250	03-SEP-15	GEORGE YARDLEY CO., INC.	3,255.60	08-SEP-15	3,255.60	Reconciled
361251	03-SEP-15		131.00	08-SEP-15	131.00	Reconciled
361252	03-SEP-15	GRAYBAR ELECTRIC	3,464.29	08-SEP-15	3,464.29	Reconciled
361253	03-SEP-15	GRIFFIN DEWATERING CORPORATION	5,322.20	09-SEP-15	5,322.20	Reconciled
361254	03-SEP-15	HACH COMPANY	933.97	08-SEP-15	933,97	Reconciled
361255	03-SEP-15	HACKETT PRINTING	659.18	08-SEP-15	659.18	Reconciled
861256	03-SEP-15	HARVARD COURT APARTMENTS	14.52	17-SEP-15	14.52	Reconciled
361257	03-SEP-15	HELPMATES STAFFING SERVICES	18,059.80	10-SEP-15	18,059.80	Reconciled
361258	03-SEP-15	HOME DEPOT USA INC	872.67	09-SEP-15	872.67	Reconciled
361259	03-SEP-15	HOPKINS TECHNICAL PRODUCTS INC	1,331.47	10-SEP-15	1,331.47	Reconciled
361260	03-SEP-15	ICE QUBE, INC.	2,682.28	08-SEP-15	2,682.28	Reconciled
361261	03-SEP-15	IDENTICARD SYSTEMS WORLDWIDE	1,188.15	10-SEP-15	1,188.15	Reconciled
361262	03-SEP-15	INDUSTRIAL METAL SUPPLY CO	105,84	08-SEP-15	105.04	Reconciled
361263	03-SEP-15	IRVINE PIPE & SUPPLY INC	1,053.36	08-SEP-15	1,053.36	Reconciled
361264	03-SEP-15	IRWD EMPLOYEE ASSOCIATION	790.00	11-SEP-15	790.00	Reconciled
RWD Ledger		Payment Reg	ister For 01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10
BANK: Bank of America	N.A. Branc	ch : Los Angeles	Account: Check			4
	rency: USD (US I		Payment Curr	ency: USD (US Dollar)	
Payment Type:			Display Supplier Add		•	

Cleared Supplier Name Site Payment Amount Date Cleared Amount Status Payment Number Sequence Num Date Payment Document : IRWD CHECK 361265 03-SEP-15 JACOBS PROJECT 28,000.00 11-SEP-15 28,000.00 Reconciled MANAGEMENT CO. 03-SEP-15 KENT & AMY 361266 1,510.00 09-SEP-15 1,510.00 DAHLBERG
03-SEP-15 KIMBALL MIDWEST
03-SEP-15 KPMG LLP
03-SEP-15 KS DIRECT LLC 3,710.63 11-SEP-15 13,732.80 14-SEP-15 405.00 09-SEP-15 3,710.63 361267 Reconciled 13,732.80 361268 Reconciled Reconciled 361269

361270	03-SEP-15	L & S CONSTRUCTION	382.77			Negotiable
		INC				
361271	03-SEP-15	LAKE PARK	211.16	14-SEP-15	211,16	Reconciled
		HOMEOWNERS				
		ASSOCIATION				
361272	03-SEP-15	LANDCARE HOLDINGS,	57,206.87	11-SEP-15	57,206.87	Reconciled
		INC.				
361273	03-SEP-15	LAZZERI, TONY	950.11	14-SEP-15	950.11	Reconciled
361274	03-SEP-15	LEONARD, KRISTIN	43.42	14-SEP-15	43.42	Reconciled
361275	03-SEP-15	LEWIS BRISBOIS	6,846.91	10-SEP-15	6,846.91	Reconciled
		BISGAARD AND	•			
		SMITH, LLP				
361276	03-SEP-15		19.88	08-SEP-15	19.88	Reconciled
361277		LOOS, ALAN	28,18	22-SEP-15	28,18	Reconciled
361278		LUBRICATION	78,91	08-SEP-15	78.91	Reconciled
301276	03-521-13	ENGINEERS, INC.	10131	00 001 10	, , , , ,	***************************************
361279	03_GED_15	MARVIN GARDENS LLC	241.54	03-SEP-15	241.54	Reconciled
361279		MC FADDEN-DALE	966.14	09-SEP-15	966,14	Reconciled
361280	02-2FL-12	INDUSTRIAL	500.14	09 BEI 13	500,11	ncconcilca
361281	03-SEP-15	MC MASTER CARR	1,655.51	09-SEP-15	1,655.51	Reconciled
301201	00 001 10	SUPPLY CO	-,		-,	
361282	03-SEP-15	MEJIA, FELIX	32.02			Negotiable
361283		NATIONAL READY	4,712.36	08-SEP-15	4,712.36	Reconciled
301203	03-351-13	MIXED CONCRETE CO.	4,712130	00 021 10	.,	
361284	03-SEP-15	NATURES IMAGE INC	596.33	09-SEP-15	596.33	Reconciled
361285	03-SEP-15		406.53	10-SEP-15	406.53	Reconciled
304203	00 021 10	CORPORATION				
			00 464 50	10 GBD 15	22 464 50	Reconciled
361286		NINYO & MOORE	22,464.50	10-SEP-15	22,464.50	Reconciled
361287		NOVACOAST INC	6,891.50		6,891.50	
361288	03-SEP-15		16,744.08		16,744.08	Reconciled
361289	03-SEP-15	ONESOURCE DISTRIBUTORS LLC	1,204.53	08-SEP-15	1,204.53	Reconciled
361290	03-SEP-15	ORANGE COUNTY AUTO	269.15	08-SEP-15	269,15	Reconciled
		PARTS CO				
361291	03-SEP-15	ORANGE COUNTY	2,571.65	10-SEP-15	2,571.65	Reconciled
		VECTOR CONTROL				
		DISTRICT				
361292	03-SEP-15		108.37	22-SEP-15	108,37	Reconciled
		APARTMENTS				
IRWD Ledger		Payment Register For	01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10:52

APARTMENTS

Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT-2015 10:52

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

ayment Number Seq		Supplier Name Site			Cleared Amount	Statu
Payment Document	: IRWD CHECK					
361293	03-SEP-15	PACIFIC COAST BOLT	851.46	09-SEP-15	851.46	Reconciled
361294	03-SEP-15	PACIFIC HYDROTECH CORP	755.18	09-SEP-15	755.18	Reconciled
361295	03-SEP-15	PAHLAVANAN, AL	77.04	28-SEP-15	77.04	Reconciled
361296	03-SEP-15	PARADA PAINTING INC	8,500.00	09-SEP-15	8,500.00	Reconciled
361297	03-SEP-15	PARKER, JACQUELINE	16.85	09-OCT-15	16,85	Reconciled
361298	03-SEP-15	PARKWAY LAWNMOWER SHOP	390.00	09-SEP-15	390.00	Reconciled
361299	03-SEP-15	PAYNE & FEARS LLP	13,683.50	10-SEP-15	13,683.50	Reconciled
361300	03-SEP-15	PERS LONG TERM CARE	851.14	14-SEP-15	851.14	Reconciled
361301	03-SEP-15	PRAXAIR DISTRIBUTION INC	783.11	00-SEP-15	783.11	Reconciled
361302	03-SEP-15	PRO MOBILE AUTO DETAILING	250.00	08-SEP-15	250.00	Reconciled
361303	03-SEP-15	RAINBOW NUT & BOLT INC	234.06	09-SEP-15	234.06	Reconciled
361304	03-SEP-15	RAM AIR ENGINEERING INC	4,607.72	08-SEP-15	4,607.72	Reconciled
361305	03-SEP-15	REAL PROPERTY MANAGEMENT COAST	1,080.44	11-SEP-15	1,080.44	Reconciled
361306		RED WING SHOES	200.00	08-SEP-15	200.00	Reconciled
361307	03-SEP-15		5,000.00	09-SEP-15	5,000.00	Reconciled
361308	03-SEP-15		34.13	17-SEP-15	34.13	Reconciled
361309	03-SEP-15	ROBERT FERGUSON COMPANY	558.74	08-OCT-15	558.74	Reconciled
361310	03-SEP-15	ROBERT HALF INTERNATIONAL, INC.	2,376.00	08-SEP-15	2,376.00	Reconciled
361311	03-SEP-15	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	213,871.64	09-SEP-15	213,871.64	Reconciled
361312	03-SEP-15		15.65	11-SEP-15	15,65	Reconciled
361313	03-SEP-15	S L RESIDENTIAL	785.00	30-SEP-15	785.00	Reconciled
361314	03-SEP-15	SANTA ANA BLUE PRINT	398.37	09-SEP-15	398.37	Reconciled
361315	03-SEP-15	SANTA MARGARITA FORD	447.61	08-SEP-15	447.61	Reconciled
361316	03-SEP-15	SCHINDLER ELEVATOR CORPORATION	180.14	00-SEP-15	180.14	Reconciled
361317	03-SEP-15	SHAMROCK SUPPLY CO INC	691.39	14-SEP-15	691.39	Reconciled

361318 03-SEP-15 SHARPE, DIANE D 48.37 00-SEP-15 48.37 Reconciled

IRWD Ledger Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT-2015 10:52

BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 6

Payment Currency: USD (US Dollar)

Payment Currency: USD (US Dollar)

Payment Type: All Display Supplier Address: No

Payment Document : IF 61319 61320 61321 61322 61323 61324 661325 661326 661327 661328	03-SEP-15	SHERWIN WILLIAMS COMPANY SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC. SIGMA-ALDRICH INC SMITH, CAROL SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY	1, 12, 28,	115.21 921.64 714.32 31.55 015.75 551.21 943.87 989.53	09-SEP-15 16-SEP-15 08-SEP-15 10-SEP-15 09-SEP-15 11-SEP-15	1,115.21 5,921.64 714.32 31.55 1,015.75 12,551.21 28,943.87 704,989.53	Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled Reconciled
61320 61321 61322 61323 61324 61325 61326 61327 61328 661329 661339 661331	03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15	COMPANY SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC. SIGMA-ALDRICH INC SMITH, CAROL SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN	1, 12, 28,	921.64 714.32 31.55 015.75 551.21	16-SEP-15 08-SEP-15 10-SEP-15 09-SEP-15 11-SEP-15	714,32 31,55 1,015,75 12,551,21 28,943.87	Reconciled Reconciled Reconciled Reconciled Reconciled
61321 61322 61323 61324 61325 61326 61327 61328	03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15	SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC. SIGMA-ALDRICH INC SMITH, CAROL SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN	1, 12, 28,	714.32 31.55 015.75 551.21	08-SEP-15 10-SEP-15 09-SEP-15 11-SEP-15	714,32 31,55 1,015,75 12,551,21 28,943.87	Reconciled Reconciled Reconciled Reconciled
61322 61323 61324 61325 61326 61327 61328	03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15	SMITH, CAROL SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN	1, 12, 28,	31.55 015.75 551.21	10-SEP-15 09-SEP-15 11-SEP-15	31.55 1,015.75 12,551.21 28,943.87	Reconciled Reconciled Reconciled
61323 61324 61325 61326 61327 61328 61329 61330 61331	03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15	SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN COMPANY SOUTHERN	12,	015.75 551.21 943.87	09-SEP-15 11-SEP-15	1,015.75 12,551.21 28,943.87	Reconciled Reconciled
61323 61324 61325 61326 61327 61328 61329 61330 61331	03-SEP-15 03-SEP-15 03-SEP-15 03-SEP-15	SMOG TIME SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN COMPANY SOUTHERN	12,	551.21 943.87	11-SEP-15	12,551.21 28,943.87	Reconciled Reconciled
61324 61325 61326 61327 61328 61329 61330 61331	03-SEP-15 03-SEP-15 03-SEP-15	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN	12,	551.21 943.87	14-SEP-15	28,943.87	Reconciled
61325 61326 61327 61328 61329 61330 61331	03-SEP-15 03-SEP-15	QUALITY MANAGEMENT DISTRICT SOUTH COAST TOYOTA SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN	28,	943.87	14-SEP-15	28,943.87	Reconciled
51326 51327 51328 51329 61330 51331	03-SEP-15	SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN					
61326 61327 61328 61329 61330 61331	03-SEP-15	SOUTHERN CALIFORNIA EDISON COMPANY SOUTHERN			08-SEP-15	704,989.53	Reconciled
61327 61328 61329 61330 61331	03-SEP-15	CALIFORNIA EDISON COMPANY SOUTHERN	,				
61328 61329 61330 61331		SOUTHERN					
61329 61330 61331	03-SEP-15	COMPANY		324.00	09-0CT-15	324.00	Reconciled
61330 61331		SOUTHERN CALIFORNIA SECURITY CENTER, INC.		658.80	15-SEP-15	658.80	Reconciled
61330 61331	03-SEP-15			403.35	14-SEP-15	403.35	Reconciled
61331	03-SEP-15		11	016.00	10-SEP-15	11,016,00	Reconciled
				251.73	08-SEP-15	1,251,73	Reconciled
61332	03-SEP-15						Reconciled
	03-SEP-15	STANDARD AUTOMATION AND CONTROL LP	23,	,524.75	11-SEP-15	23,524.75	Reconciled
61333	03-SEP-15	STANTEC CONSULTING SERVICES INC.	37,	,956.00	10-SEP-15	37,956.00	Reconciled
51334	03-SEP-15	STATE WATER RESOURCES CONTROL BOARD	5,	,975.00	09-SEP-15	5,975.00	Reconciled
61335	03-SEP-15	SUNNYHILLS RESTORATION	26,	,871.19	04-SEP-15	26,871.19	Reconciled
61336	03-SEP-15	TESTAMERICA LABORATORIES, INC		52.50	08-SEP-15	52.50	Reconciled
61337	03-SEP-15	TETRA TECH, INC		,190.00	08-SEP-15	9,190.00	Reconciled
61338		TIC-OFFICE PROPERTIES		,584.86	22-SEP-15	2,584.86	Reconciled
61339		TIC-SPECTRUM OFFICE	3,	,518,13	22-SEP-15	3,518.13	Reconciled
61340	03-SEP-15	INC		20.00	10-SEP-15	20.00	Reconciled
61341	03-SEP-15	TRICOR DIRECT INC		250.57	10-SEP-15	250.57	Reconciled
WD Ledger			egister For 01-SE			Report Date: 12	
ANK: Bank of America Bank Account Cur: Payment Type: 1	rency: USD (US I	ch : Los Angeles Dollar)		ent Curr	ing AP and PF ency: USD (ress: No		7
rayment Type;	UTT		Disping Supp.	ital nad			

Payment Number Sequence Num Date Supplier Name Site Payment Amount Date Payment Document : IRWD CHECK 4,467.54 03-SEP-15 TROPICAL PLAZA 4,467.54 08-SEP-15 Reconciled 361342 NURSERY INC 03-SEP-15 TRUCPARCO 3,560.67 11-SEP-15 3,560.67 Reconciled 361343 03-SEP-15 TSUCHIYAMA, ANNIE Negotiable 361344 248.47 248.47 TURELK, INC UNITED PARCEL 10-SEP-15 03-SEP-15 Reconciled 08-SEP-15 22.60 Reconciled 361346 03-SEP-15 22.60 SERVICE INC URS CORPORATION
VERIZON CALIFORNIA 2,300.80 08-SEP-15 2,308.80 Reconciled 03-SEP-15 361347 270.48 10-SEP-15 270.48 Reconciled 03-SEP-15 361348 03-SEP-15 80.10 10-SEP-15 80.10 Reconciled 361349 VERIZON CALIFORNIA INC VERIZON WIRELESS SERVICES LLC 4,826,49 Reconciled 4,826.49 11-SEP-15 361350 03-SEP-15 VHG LABS, INC 14-SEP-15 241.00 Reconciled 361351 03-SEP-15 241.00 1,339.38 08-SEP-15 1,339.38 Reconciled 361352 03-SEP-15 VULCAN MATERIALS COMPANY 1,748.64 Reconciled WALTERS WHOLESALE 1,748.64 08-SEP-15 361353 03-SEP-15 ELECTRIC 7,567.49 Reconciled 361354 03-SEP-15 WALTON MOTORS & 7,567.49 08-SEP-15 CONTROLS INC 03-SEP-15 WASTE MANAGEMENT 1,738.88 08-SEP-15 1,738.88 Reconciled 361355 OF ORANGE COUNTY 03-SEP-15 WAXIE'S 638.89 10-SEP-15 638.89 Reconciled 361356 ENTERPRISES, INC 1,480.00 08-SEP-15 1,480.00 Reconciled 03-SEP-15 WECK LABORATORIES 361357

		INC				
361358	03-SEP-15	WESTERN WATER	1,449.00	08-SEP-15	1,449.00	Reconciled
		WORKS SUPPLY				
		COMPANY				
361359	03-SEP-15	WILLIAMS, RAYMOND	41.37	08-SEP-15	41.37	Reconciled
361360	03-SEP-15	WOODRUFF, SPRADLIN	1,678.44	09-SEP-15	1,678.44	Reconciled
		& SMART APC				
361361	03-SEP-15	YANG, PINGCHU	134.55	10-SEP-15	134.55	Reconciled
361362	08-SEP-15	LEE, HYUN J PAY	140,29			Voided
361363	08-SEP-15	SYNAGRO-WWT, INC. BALTIMORE	168,285.86	16-SEP-15	168,285.86	Reconciled
361364	08-SEP-15	JCI JONES CINCINNATI	5,505.50	11-SEP-15	5,505.50	Reconciled
		CHEMICALS INC				
361365	10-SEP-15	Kalinsky, Arseny	387.00	10-SEP-15	387.00	Reconciled
		(Arseny)				
361366	10-SEP-15	Compton, Christine	137,31	11-SEP-15	137.31	Reconciled
		A				
361367	10-SEP-15	Sitzler, Roberta K	46.22	10-SEP-15	46.22	Reconciled
		(Roberta)				
361368	10-SEP-15	Martinez, Veronica	41.22	15-SEP-15	41.22	Reconciled
		P				
IRWD Ledger		Payment Register For			Report Date: 12-	
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Payment Type: All Page: 8 Account: Checking AP and PR Pag Payment Currency: USD (US Dollar) Display Supplier Address: No BANK: Bank of America N.A.

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Payment Document :							
61369	10-SEP-15	AIRGAS, INC.		89.94	14-SEP-15	89.94	Reconciled
61370	10-SEP-15			76.27			Negotiable
61371	10-SEP-15	API FUND FOR PAYROLL EDUCATION, INC.		440.00	15-SEP-15	440.00	Reconciled
61372	10-SEP-15	APPLIED MEMBRANES		1,855.41	14-SEP-15	1,855.41	Reconciled
61373	10-SEP-15	AQUA BEN CORPORATION		33,642.00	16-SEP-15	33,642.00	Reconciled
61374	10-SED-15	ARCADIS U.S., INC.		7,800.00	14-SEP-15	7,800,00	Reconciled
61375		ASSOCIATION OF		1,500.00	16-SEP-15	1,500.00	Reconciled
01312	10-251-13	CALIFORNIA CITIES		1,500.00	10 041 10	•	110001101200
61376	10-SEP-15	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		33,402.95	17-SEP-15	33,402.95	Reconciled
61377	10-SEP-15	AT&T		3,396.06	15-SEP-15	3,396.06	Reconciled
61378	10-SEP-15	AUTOZONE PARTS, INC.		382,13	15-SEP-15	382.13	Reconciled
61379	10-SEP-15			17,069.27	16-SEP-15	17,069.27	Reconciled
61380	10-SEP-15	BATTERIES PLUS AND BATTERIES PLUS BULBS		1,205.71	14-SEP-15	1,205.71	Reconciled
61381	10-SEP-15			709.80	15-SEP-15	709.80	Reconcile
61382	10-SEP-15	BIGWIG MONSTER,		2,375.00	14-SEP-15	2,375.00	Reconciled
61383	10-SEP-15	BLACK & VEATCH CORPORATION		409,946.06	17-SEP-15	409,946.06	Reconciled
61384	10-SEP-15	BORCHARD SURVEYING & MAPPING, INC.		5,307.50			Negotiable
61385	10-SEP-15			270.00	14-SEP-15	270.00	Reconcile
61386	10-SEP-15	BRITHINEE ELECTRIC		10,077.56	16-SEP-15	10,077.56	Reconcile
61387	10-SEP-15	C WELLS PIPELINE MATERIALS INC		23,899.53	21-SEP-15	23,899.53	Reconciled
61388	10-SEP-15	CALIFORNIA BARRICADE INC		3,462.50	14-SEP-15	3,462.50	Reconcile
861389	10-SEP-15			121,60	14-SEP-15	121.60	Reconcile
61390	10-SEP-15	COMMERCE ENERGY INC		161.65	14-SEP-15	161.65	Reconcile
861391	10-SEP-15			12.95	15-SEP-15	12.95	Reconcile
61392	10-SEP-15	CREATIVE ALLIANCE GROUP LLC		500.00	15-SEP-15	500.00	Reconcile
361393	10-SEP-15			116.90	14-SEP-15	116.90	Reconciled
RWD Ledger			Register For	01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 1
BANK: Bank of Americ	a N.A. Branc	ch : Los Angeles		Account: Check	ing AP and P	R Page:	9
Bank Account Cu	rrency: USD (US I				ency: USD (US Dollar)	
Payment Type:			Displa	ay Supplier Add	ress: No		

Cleared Supplier Name Site Payment Amount Date Cleared Amount Status Payment Number Sequence Num Date Payment Document : IRWD CHECK 17-SEP-15 16-SEP-15 14,652.98 399.60 7,363.24 Reconciled Reconciled 10-SEP-15 CROCKER & CROCKER 14,652.98 10-SEP-15 D & G SIGNS 10-SEP-15 D & H WATER 361395 361396 399.60 Reconciled SYSTEMS INC. 10-SEP-15 EI&C ENGINEERING 361397 26,460.00 18-SEP-15 26,460.00 Reconciled 3,611.10 14-SEP-15 3,611.10 Reconciled 10-SEP-15 ENTERPRISE 361398

		SECURITY, INC				
361399	10-SED-15	ENVIRONMENTAL	121.61	16-SEP-15	121.61	Reconciled
301333	10 001 10	RESOURCE				
		ASSOCIATES				
361400	10-SEP-15	ESCOBAR, JENNIFER	33.37	14-SEP-15	33.37	Reconciled
361401	10-SEP-15		2,500,00	11-SEP-15	2,500.00	Reconciled
361402		EXECUTIVE LIGHTING	294.40	15-SEP-15	294.40	Reconciled
501.02		& ELECTRIC				
361403	10-SEP-15	FEDEX	719.99	16-SEP-15	719.99	Reconciled
361404		FIDELITY SECURITY	6,039.58	15-SEP-15	6,039.58	Reconciled
		LIFE INSURANCE				
		COMPANY				
361405	10-SEP-15	FIRE EXTINGUISHING	877.38	14-SEP-15	877.38	Reconciled
		SAFETY & SERVICE				
361406	10-SEP-15	FIRST CHOICE	1,052.23	16-SEP-15	1,052.23	Reconciled
		SERVICES				
361407	10-SEP-15	FISHER SCIENTIFIC	1,257.51	14-SEP-15	1,257.51	Reconciled
		COMPANY LLC				
361408	10-SEP-15	FLOW SCIENCE	1,007.10	14-SEP-15	1,007.10	Reconciled
		INCORPORATED				
361409		GANAHL LUMBER CO.	68.20	16-SEP-15	60,20	Reconciled
361410	10-SEP-15		26,400.00	18-SEP-15	26,400.00	Reconciled
361411		GORDON, GINA	750.00			Negotiable
361412	10-SEP-15		841.56	14-SEP-15	841.56	Reconciled
361413	10-SEP-15		122.62	14-SEP-15	122.62	Reconciled
361414	10-SEP-15	GRAYBAR ELECTRIC	117.26	11-SEP-15	117.26	Reconciled
		COMPANY				
361415		HACH COMPANY	37,402.95	17-SEP-15	37,402.95	Reconciled
361416	10-SEP-15	HARRINGTON	4,459.53	14-SEP-15	4,459.53	Reconciled
		INDUSTRIAL				
		PLASTICS LLC	0 200 00	14-SEP-15	2,309.00	Reconciled
361417		HELP/SYSTEMS, LLC	2,309.00 30,256.76	14-SEP-15 16-SEP-15	30,256.76	Reconciled
361418	10-SEP-15	HELPMATES STAFFING	30,256.76	10-2Fb-12	30,230.10	Recollectied
0.54.44.0	10 000 15	SERVICES	4,831,25	14-SEP-15	4,831.25	Reconciled
361419	10-SEP-15	HILL BROTHERS	4,631.25	14-2EP-13	4,031.23	Recollerted
0.51.400	10 000 15	CHEMICAL COMPANY	870,14	17-SEP-15	870.14	Reconciled
361420		HOME DEPOT USA INC	122.89	17-SEP-15 17-SEP-15	122.89	Reconciled
361421	10-SEP-15	HU, DE XIN	For 01-SEP-15 To			
IRWD Ledger	D		Account: Check			10
BANK: Bank of America N.A.		h : Los Angeles		ency: USD (U		10
Bank Account Currency	טאט (טאַ נ	DITAL)	splay Supplier Add		P DOTTET /	
Payment Type: All		DI	shray subbitet wdd	ress: NO		

Cleared Amount Status Payment Number Sequence Num Date Supplier Name Site Payment Amount Date Payment Document : IRWD CHECK 335.96 14-SEP-15 335.96 Reconciled 361422 10-SEP-15 HYDRO-SCAPE PRODUCTS INC 14-SEP-15 10-SEP-15 IBM CORPORATION 361423 361424 10-SEP-15 INDUSTRIAL METAL 140.33 14-SEP-15 140.33 Reconciled SUPPLY CO 361425 10-SEP-15 IRVINE PIPE & 14.99 14-SEP-15 14.99 Reconciled SUPPLY INC 10-SEP-15 JOHN MICHAEL COVAS 194.20 01-OCT-15 194.20 Reconciled 361426 10-SEP-15 JOHNSTONE SUPPLY 94.95 14-SEP-15 94.95 Reconciled 30-SEP-15 24.08 361428 10-SEP-15 KANG, JOO YEON KENNY THE PRINTER 24.08 Reconciled 10-SEP-15 970.10 14-SEP-15 970.10 Reconciled 361429 1,300.00 361430 10-SEP-15 KILL-N-BUGS 14-SEP-15 1,300.00 Reconciled TERMITE AND PEST CONTROL SERVICES 11,685.85 16-SEP-15 11,685.85 Reconciled 10-SEP-15 361431 KLEINFELDER. INC. 3,167.42 15-SEP-15 3,167.42 Reconciled 10-SEP-15 LANDCARE HOLDINGS, 361432 INC. 10-SEP-15 LEE, JARED 14-SEP-15 361433 10-SEP-15 LU'S LIGHTHOUSE, 620.09 14-SEP-15 620.09 Reconciled 361434 INC. 361435 10-SEP-15 LUBRICATION 98.30 14-SEP-15 98.30 Reconciled ENGINEERS, INC. 2,039,10 17-SEP-15 2,039.10 10-SEP-15 MAIL PROS 361436 MAILFINANCE INC 10,427.63 18-SEP-15 10,427.63 Reconciled 16-SEP-15 Reconciled 6,152.82 361438 10-SEP-15 MARINA LANDSCAPE 6,152,82 MAINTENANCE, INC. MC FADDEN-DALE 361439 10-SEP-15 400.24 14-SEP-15 400.24 Reconciled INDUSTRIAL 10-SEP-15 MCCROMETER, INC. 725.67 14-SEP-15 725.67 Reconciled 22,788,60 17-SEP-15 22,788.60 Reconciled 361441 10-SEP-15 MEDORA CORPORATION 10-SEP-15 MOBILE MODULAR 972.00 Reconciled 361442 MANAGEMENT CORPORATION 10-SEP-15 MOROZOV, SERGEY 36.26 21-SEP-15 36.26 Reconciled 15-SEP-15 27.00 10-SEP-15 Reconciled 361444 MUTUAL PROPANE 27.00 10-SEP-15 387.72 14-SEP-15 387.72 Reconciled NATIONAL READY 361445 MIXED CONCRETE CO. 14-SEP-15 10-SEP-15 990.00 990.00 361446 NATURALWELL, LLC 361447 10-SEP-15 NCL OF WISCONSIN 155.21 17-SEP-15 155.21 Reconciled TNC 8,309.50 14-SEP-15 8,309.50 10-SEP-15 NINYO & MOORE 361448 10-SEP-15 O.I. ANALYTICAL OLIN CORPORATION 3,282.00 18-SEP-15 3,282,00 Reconciled 14,270.48 17-SEP-15 14,270.48 Reconciled 10-SEP-15 361450 ONESOURCE 16-SEP-15 26,060.40 Reconciled 361451 10-SEP-15 DISTRIBUTORS LLC Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT-2015 10:52 IRWD Ledger

BANK: Bank of America N.A. Branch: Los Angeles Bank Account Currency: USD (US Dollar) Payment Type: All Account: Checking AP and PR Page: 11 Payment Currency: USD (US Dollar) Display Supplier Address: No

yment Number Sequence Num	Date	Supplier Name	Site Payment Amount	Date	Cleared Amount	Stati
Payment Document : IRWD CHE						
361452	10-SEP-15	ORACLE AMERICA,	217,808.16	17-SEP-15	217,808.16	Reconciled
361453	10-SEP-15	ORANGE COUNTY AUTO	209.30	14-SEP-15	209.30	Reconciled
361454	10-SEP-15	PARTS CO ORANGE COUNTY VECTOR CONTROL	1,075.72	23-SEP-15	1,075.72	Reconciled
861455	10-SEP-15	DISTRICT PACIFIC GAS AND ELECTRIC COMPANY	22.67	16-SEP-15	22.67	Reconciled
361456	10-SEP-15	PAPER DEPOT DOCUMENT DESTRUCTION LLC	720.00	18-SEP-15	720.00	Reconciled
361457	10-SEP-15	PARKHOUSE TIRE INC		18-SEP-15	6,774.24	Reconciled
		PIERCE, TERI	28.31 2,268.00	18-SEP-15 14-SEP-15	28.31 2,268.00	Reconciled Reconciled
		PINNACLE EXHIBITS, INC.				Reconciled
		PMK ASSOCIATES INC PRUDENTIAL OVERALL		17-SEP-15 14-SEP-15	18,000.00 4,890.43	Reconciled
		SUPPLY	1,091.43	16-SEP-15	1,091.43	Reconciled
		PTI SAND & GRAVEL INC			·	
361463	10-SEP-15	R&B AUTOMATION, INC.	8,994.24	14-SEP-15	8,994.24	Reconciled
361464	10-SEP-15	RAM AIR ENGINEERING INC	12,141.97	18-SEP-15	12,141.97	Reconciled
		REED, JAMES D	1,930.00	21-SEP-15	1,930.00	Reconciled
61466	10-SEP-15	RESPONSE ENVELOPE, INC	2,544.26	15-SEP-15	2,544.26	Reconciled
		RINGCLEAR LLC	111.12	15-SEP-15	111.12	Reconciled
		ROBINSON, DYANI SANTA ANA BLUE	45.73 1,029.32	14-SEP-15	1,029.32	Negotiable Reconciled
61470	10-SEP-15	PRINT SANTA MARGARITA	662.86	14-SEP-15	662.86	Reconcile
361471	10-SEP-15	FORD SAXENA, JUGESH	61.65	15-SEP-15	61.65	Reconcile
		SHAMROCK SUPPLY CO	414.28	14-SEP-15	414.28	Reconcile
61473	10-SEP-15	SHERWIN WILLIAMS COMPANY	74.35	15-SEP-15	74.35	Reconciled
361474	10-SEP-15	SIEMENS DEMAG DELAVAL TURBOMACHINERY,	119.68	21-SEP-15	119.88	Reconcile
361475	10-SEP-15	INC. SIGN MART / PLASTIC PLUS	222.26	14-SEP-15	222.26	Reconcile
WD Ledger WANK: Bank of America N.A. Bank Account Currency: Fayment Type: All	Brand USD (US)	1 2 2 1 1 1		ing ND and Di	Report Date: 12 R Page: US Dollar)	
			December 1	Cleared	Cleared Amount	Sta
ayment Number Sequence Num Payment Document : IRWD CHI		Supplier Name	Site Payment Amount		created Amount	
		SIGNATURE FLOORING	3,729,00	14-SEP-15	3,729.00	Reconcile
361476		INC	741.33		741.33	Reconcile
361477		SOUTH COAST ANSWERING SERVICE	40.00		40.00	Reconcile
361478		SOUTH COAST WATER		17-SEP-15	151.68	Reconcile
361479		SOUTH COAST WATER	151.68	14-SEP-15		Reconcile
361480	10-SEP-15	CALIFORNIA EDISON	9,054.16	14-SEP-15	9,054.16	Keconcile
361481	10-SEP-15	COMPANY SOUTHLAND WATER TECHNOLOGIES LLC	4,422.40	15-SEP-15	4,422.40	Reconcile
361482		SPX CORP	195.10 8,354.00	14-SEP-15 16-SEP-15	195.10 8,354.00	Reconcile Reconcile
361483	10-SEP-15	CORPORATION				Reconcile
361484	10-SEP-15	STANDARD AUTOMATION AND	71,272.10	18-SEP-15	71,272.10	Vecoucile
361485	10-SEP-15	CONTROL LP STULL, PAMELA	424.51	28-SEP-15	424.51	Reconcile
361486		THE GAS COMPANY	138,27	21-SEP-15	138.27	Reconcile
	10-SEP-15	THE IRVINE COMPANY	31,500.00	17-SEP-15	31,500.00	Reconcile
361487					4 200 55	Reconcile
	10-SEP-15	TRUCPARCO	1,368.75	22-SEP-15	1,368.75	
361488 361489	10-SEP-15	TRUCPARCO TRUJILLO, RENEE	40.23	30-SEP-15	40.23	Reconcile
361487 361488 361489 361490 361491	10-SEP-15 10-SEP-15	TRUCPARCO TRUJILLO, RENEE				

		CALIFORNIA					
361492	10-SEP-1	5 UNITED PARCEL		35,84	14-SEP-15	35.84	Reconciled
301132	17 555 5	SERVICE INC					
361493	10-SEP-1	5 UNITED STATES POST	r .	27,083.33	18-SEP-15	27,083.33	Reconciled
		OFFICE		00 645 50	10 500 15	00 643 50	Reconciled
361494		5 URS CORPORATION 5 UTILITY SYSTEMS		20,647.50 1,160.00	18-SEP-15 15-SEP-15	20,647.50 1,160.00	Reconciled
361495	10-SEP-1	SCIENCE & SOFTWARE	2	1,100.00	13-366-13	1,100.00	Reconciled
		INC.	-				
361496	10-SEP-1	5 VALLEYCREST		3,375.12	11-SEP-15	3,375.12	Reconciled
		LANDSCAPE					
		DEVELOPMENT, INC.			14 400 15	1 426 16	Reconciled
361497	10-SEP-1	5 VULCAN MATERIALS COMPANY		1,436.16	14-SEP-15	1,436.16	Reconciled
361498	10-SEP-1	5 WALTERS WHOLESALE		1,351,16	15-SEP-15	1,351,16	Reconciled
		ELECTRIC		2,		-,	
IRWD Ledger	America N.A. Bra unt Currency: USD (US Type: All	Payment	Register Fo	or 01-SEP-15 To			
BANK: Bank of	America N.A. Bra	nch : Los Angeles		Account: Checki			13
Bank Acco	unt Currency: USD (US	Dollar)		Payment Curre		US Dollar)	
Payment	Type: All		Dis	olay Supplier Addı	ress: No		
					Cleared		
Payment Number	Sequence Num Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Docum	ent : IRWD CHECK						
361499	10~SEP-1	5 WASTE MANAGEMENT		2,500.96	14-SEP-15	2,500,96	Reconciled
501155		OF ORANGE COUNTY		-,		,	
361500	10-SEP-1	5 WATERLINE		2,280.00	14-SEP-15	2,280.00	Reconciled
		TECHNOLOGIES INC					
361501	10-SEP-1	5 WAXIE'S		1,075.20	15-SEP-15	1,075.20	Reconciled
361502	10-SED-1	ENTERPRISES, INC 5 WECK LABORATORIES		3,195.00	15-SEP-15	3,195.00	Reconciled
301302	10-3EF-1	INC		3,130.00	10 041 10	0,250,00	
361503	10-SEP-1	5 WESTERN NATIONAL		1,581.68	29-SEP-15	1,581.68	Reconciled
		CONTRACTORS					
361504	10-SEP-1	5 WOLTERS KLUWER LAN	N	300.74	14-SEP-15	300.74	Reconciled
0.515.05	10 000 1	& BUSINESS		102 50	14-GED-15	123.50	Reconciled
361505 361506		5 YP LLC 5 FOOTHILL/EASTERN	TOVINE	123.50 4,650.00	14-SEP-15 25-SEP-15	4,650.00	Reconciled
301200	10-2Fb-1		TIVA TIATI	4,000.00	- J- JEE - 1J	4,030.00	1.CCOHOLIGG
361507		TRANSPORTATION					
	11-SEP-1	TRANSPORTATION 5 LEE, HYUN J	PAY	140.29			Voided
361508			PAY IRVINE		14-SEP-15	1,256.37	

2540 MAIN 1,551.03 22-SEP-15 1.551.03 Reconciled 361509 14-SEP-15 CHICAGO'S BEST 361510 15-SEP-15 CORPORATE HEALTH PURCHASE 597.99 21-SEP-15 597.99 Reconciled EDUCATION SOLUTIONS LLC Reconciled 361511 17-SEP-15 17-SEP-15 Nieto, Agustin 325.52 24-SEP-15 325.52 21-SEP-15 645.00 Reconciled Murphy, Alexander 645,00 361512 J (Alexander) 18-SEP-15 520.05 Reconciled 520,05 361513 17-SEP-15 Blaska, Erika M (Erika) 17-SEP-15 17-SEP-15 4IMPRINT, INC. ABBOTT, SANDRA 21-SEP-15 1,372.93 Reconciled 1,372,93 361514 23.70 28-SEP-15 Reconciled 361515 361516 17-SEP-15 ACEVEDO, ALEX ACCT# 8089900000 487.00 22-SEP-15 487.00 Reconciled 17-SEP-15 ADS LLC 1,936.50 21-SEP-15 1,936.50 Reconciled 6,695.02 314.54 23-SEP-15 6,695.02 17-SEP-15 17-SEP-15 Reconciled 361518 AFLAC AFLAC 25-SEP-15 361519 AIRGAS, INC.
AKM CONSULTING
ENGINEERS, INC. 361520 17-SEP-15 291.60 21-SEP-15 291.60 Reconciled 23-SEP-15 17-SEP-15 46,600.00 46,600.00 Reconciled 361521 6,424.60 ALHAMBRA FOUNDRY 17-SEP-15 6,424.60 21-SEP-15 Reconciled 361522 CO LTD 17-SEP-15 17-SEP-15 ALKEMA SOLUTIONS ALPHA TRAFFIC SERVICES, INC. 1,000.00 21-SEP-15 1,000.00 Reconciled 361523 21-SEP-15 570.00 Reconciled 570,00 361524 562.26 Reconciled ANTHEM BLUE CROSS 562.26
Payment Register For 01-SEP-15 To 361525 17-SEP-15 28-SEP-15 30-SEP-15 Report Date: 12-OCT-2015 10:52 IRWD Ledger

Account: Checking AP and PR Pag Payment Currency: USD (US Dollar) Display Supplier Address: No BANK: Bank of America N.A. Branch : Los Angeles Page: 14 Bank Account Currency: USD (US Dollar)
Payment Type: All

Payment Number	Sequence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
	ment : IRWD CHECK		3-1-1-1-1	*************		***************************************	
361526	17-SEP-15	APARTMENT ASSOCIATION OF ORANGE COUNTY		1,000.00	21-SEP-15	1,000.00	Reconciled
361527	17-SEP-15	ARMORCAST PRODUCTS COMPANY		10,382.52	23-SEP-15	10,382.52	Reconciled
361528	17-SEP-15	AT&T		1,652.00	22-SEP-15	1,652.00	Reconciled
361529	17-SEP-15	ATHENS SERVICES		5,936.07	22-SEP-15	5,936.07	Reconciled
361530	17-SEP-15	BADGER METER INC		51,564.61	25-SEP-15	51,564.61	Reconciled
361531	17-SEP-15	BANK OF NEW YORK MELLON TRUST COMPANY NA		685.00	22-SEP-15	685,00	Reconciled
361532	17-SEP-15	BATTERY SPECIALTIES		112.49	22-SEP-15	112.49	Reconciled

361533	17-SEP-15	BDC SPECIAL WASTE	207,20	21-SEP-15	207.20	Reconciled
361534	17-SEP-15	BIOMAGIC INC	11,781.50	23-SEP-15	11,781.50	Reconciled
361535	17-SEP-15	BLOOMBERG FINANCE	12,465.00	25-SEP-15	12,465.00	Reconciled
		LP				
361536	17-SEP-15	BLOOMBERG, JAVIN	28,56	22-SEP-15	28.56	Reconciled
361537	17-SEP-15	BUFFENBARGER,	20,96	22-SEP-15	20.96	Reconciled
		CAROL				
361538	17-SEP-15	C WELLS PIPELINE	5,347.60	25-SEP-15	5,347.60	Reconciled
		MATERIALS INC				
361539	17-SEP-15	CABELA'S MARKETING	226,95	21-SEP-15	226.95	Reconciled
		AND BRAND				
		MANAGEMENT INC				
361540	17-SEP-15	CALIFORNIA	7,988.78	22-SEP-15	7,988.78	Reconciled
		BARRICADE INC				
361541	17-SEP-15	CANON FINANCIAL	402.85	21-SEP-15	402.85	Reconciled
		SERVICES, INC				
361542	17-SEP-15	CEMEX, INC.	450.96	21-SEP-15	450.96	Reconciled
361543	17-SEP-15	CH2M HILL, INC	1,283.89	21-SEP-15	1,283.89	Reconciled
361544	17-SEP-15	CHEM TECH	10,137.60	24-SEP-15	10,137.60	Reconciled
		INTERNATIONAL INC				
361545	17-SEP-15	CLEAN ENERGY	1,488.95	23-SEP-15	1,488.95	Reconciled
361546	17-SEP-15	CLEARINGHOUSE	477.67	22-SEP-15	477,67	Reconciled
361547	17-SEP-15	COLONIAL LIFE &	1,053.48	21-SEP-15	1,053.48	Reconciled
		ACCIDENT INSURANCE				
		co.				
361548	17-SEP-15	COMPUCOM SYSTEMS,	242.19	21-SEP-15	242.19	Reconciled
		INC.				
361549	17-SEP-15	CORELOGIC INC	12.00	21-SEP-15	12,00	Reconciled
361550	17-SEP-15	COUNTY OF ORANGE	24,720.00	21-SEP-15	24,720.00	Reconciled
361551	17-SEP-15	CURT PRINGLE AND	7,000.00	22-SEP-15	7,000.00	Reconciled
		ASSOCIATES				
361552	17-SEP-15	D & H WATER	4,989.16	24-SEP-15	4,989.16	Reconciled
		SYSTEMS INC.				
IRWD Ledger		Payment Register For				
BANK: Bank of America N.A.	Branc	ch : Los Angeles	Account: Check			15
Bank Account Currency:	USD (US I	ollar)	Payment Curr	ency: USD (U	S Dollar)	

Payment Currency: USD (US Dollar)
Display Supplier Address: No

Bank Account Currency: USD (US Dollar)
Payment Type: All

Payment Document : IRWD Ch		Supplier Name S	ite Payment Amount		Cleared Amount	Status
361553	17-SEP-15	DALOB, CZARINA	54.50	21-SEP-15	54.50	Reconciled
361554	17-SEP-15	DANG, CRYSTAL	27,14	25-SEP-15	27.14	Reconciled
361555	17-SEP-15		3,628.50	24-SEP-15	3,628.50	Reconciled
361556	17-SEP-15	EMPLOYEE BENEFIT SPECIALIST, INC	1,190.00	28-SEP-15	1,190.00	Reconciled
361557	17-SEP-15	FARRELL & ASSOCIATES	202.59	21-SEP-15	202,59	Reconciled
361558	17-SEP-15	FDM	19,100.00	24-SEP-15	19,100.00	Reconciled
361559	17-SEP-15	FISHER SCIENTIFIC COMPANY LLC	8,026.97	21-SEP-15	8,026.97	Reconciled
361560	17-SEP-15	FLEET SOLUTIONS LLC	4,441.00	21-SEP-15	4,441.00	Reconciled
361561	17-SEP-15	BOARD	621,54	30-SEP-15	621.54	Reconciled
361562	17-SEP-15	CO., INC.	5,732.16	21-SEP-15	5,732.16	Reconciled
361563	17-SEP-15	GM SAGER CONSTRUCTION CO, INC.	122,054.00	23-SEP-15	122,054.00	Reconciled
361564	17-SEP-15	GOULD, NATASHA	7.14			Negotiable
361565	17-SEP-15	GRAINGER	1,396.14	21-SEP-15	1,396.14	Reconciled
361566	17-SEP-15	GRAYBAR ELECTRIC COMPANY	5,613.89	18-SEP-15	5,613.89	Reconciled
361567	17-SEP-15	GRIFFIN DEWATERING CORPORATION	5,092.20	21-SEP-15	5,092.20	Reconciled
361568	17-SEP-15	HACH COMPANY	6,763.25	21-SEP-15	6,763.25	Reconciled
361569	17-SEP-15	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	132.24	22-SEP-15	132,24	Reconciled
361570	17-SEP-15	HDR ENGINEERING	59,562.50	24-SEP-15	59,562.50	Reconciled
361571	17-SEP-15	HELPMATES STAFFING SERVICES	23,922.82	23-SEP-15	23,922.82	Reconciled
361572	17-SEP-15	HILL BROTHERS CHEMICAL COMPANY	13,999.25	24-SEP-15	13,999.25	Reconciled
361573	17-SEP-15	HINES, CHAD	195.72	21-SEP-15	195.72	Reconciled
361574	17-SEP-15	HOME DEPOT USA INC	275.85	22-SEP-15	275.85	Reconciled
361575	17-SEP-15	HR/LABOR SOLUTIONS	2,989.55	01-OCT-15	2,989.55	Reconciled
361576	17-SEP-15	IBM CORPORATION	925.00	22-SEP-15	925.00	Reconciled
361577	17-SEP-15	IDEXX DISTRIBUTION, INC	9,232.25	21-SEP-15	9,232.25	Reconciled
361578	17-SEP-15	IRON MOUNTAIN INFORMATION MANAGEMENT INC	1,854.73	22-SEP-15	1,854.73	Reconciled
IRWD Ledger BANK: Bank of America N.A. Bank Account Currency		ch : Los Angeles	gister For 01-SEP-15 To Account: Check Payment Curr Display Supplier Add	ing AP and PF ency: USD (-OCT-2015 10: 16

•		Supplier Name Si	te Payment Amount	Date	Cleared Amount	Sta
	ent : IRWD CHECK					
361579	17-SEP-15	IRWD EMPLOYEE ASSOCIATION	880,00	18-SEP-15	800.00	Reconcile
361580	17-SEP-15	IRWD-PETTY CASH	929.36	10-SEP-15	929,36	Reconcile
61581	17-SEP-15	CUSTODIAN JCI JONES	2,377.97	21-SEP-15	2,377.97	Reconcile
61582	17-SEP-15	CHEMICALS INC JENNINGS, ROBERT JOHNSON, ROBERT	141.82	21-SEP-15	141.82	Reconcile
61583	17-SEP-15	JOHNSON, ROBERT	137,62	22-SEP-15	137.62	Reconcile
61584	17-SEP-15	KIKER, KRAIG	35.85		35.85	Reconcile
61585		KIM, YOUNG OK	33,45	29-SEP-15	33.45	Reconcil
61586		KLEINFELDER, INC.	94,369.00	23-SEP-15	94,369.00	Reconcil
61587	17-SEP-15	KOELLER NEBEKER CARLSON & HALUCK, LLP	2,534.42	21~SEP-15	2,534.42	Reconcil
61588	17-SEP-15	LANDCARE HOLDINGS, INC.	2,014.00	21-SEP-15	2,014.00	Reconcil
61589	17-SEP-15	LCS TECHNOLOGIES,	4,860.00	21-SEP-15	4,860.00	Reconcil
61590	17-SEP-15	LEWIS OPERATING	400.00	21-SEP-15	400.00	Reconcil
61591	17-SED-15	CORP LIN, SHUPEI	21.22	21-SEP-15	21,22	Reconcil
61592		MAHON, GENE	18.92		18.92	Reconcil
61593		MARVIN GARDENS LLC	89.15	17-SEP-15		Reconcil
61594		MAYFIELD, CONNIE		21-SEP-15	2,740.00	Reconcil
61595		MC MASTER CARR SUPPLY CO	519.19	21-SEP-15	519.19	Reconcil
61596	17-SEP-15	NATIONAL READY MIXED CONCRETE CO.	3,109.28	21-SEP-15	3,109.28	Reconcil
61597	17-SEP-15	NEPTUNE TECHNOLOGY	77,448.96	24-SEP-15	77,448.96	Reconcil
61598	17-SEP-15	GROUP, INC. NEWPORT BEACH CHAMBER OF	1,400.00	21-SEP-15	1,400.00	Reconcil
61500	17_crp_15	COMMERCE NEWPORT WINDOW	1,312.00	22-SEP-15	1,312.00	Reconcil
61599		MAINTENANCE INC				Reconcil
61600 61601		NINYO & MOORE O'HAREN GOVERNMENT RELATIONS	2,015.75 6,500.00	21-SEP-15 28-SEP-15	2,015.75 6,500.00	Reconcil
61602	17-SEP-15	O.I. ANALYTICAL	275.56	22-SEP-15	275,56	Reconcil
61603 61604	17-SEP-15	OLIN CORPORATION ORANGE COUNTY AUTO	25,876.52 123.02	24-SEP-15 21-SEP-15		Reconcil Reconcil
61605		PARTS CO OUTSOURCE	20,088.00	23-SEP-15	20,088.00	Reconcil
61606		TECHNICAL LLC PARKSIDE COMM	16,375.66		16,375.66	Reconcil
WD Ledger ANK: Bank of	America N.A. Brand		gister For 01-SEP-15 To Account: Check			
	ount Currency: USD (US)		Payment Curr Display Supplier Add			17
Payment	ount Currency: USD (US) : Type: All	Dollar)	Payment Curr Display Supplier Add	ress: No		
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Payment Number Payment Docum	ount Currency: USD (US) Type: All Sequence Num Date	Supplier Name S	Payment Curr Display Supplier Add ite Payment Amount	ress: No Cleared Date	US Dollar) Cleared Amount	St
Payment yment Number Payment Docum	ount Currency: USD (US) Type: All Sequence Num Date	Oollar) Supplier Name S:	Payment Curr Display Supplier Add ite Payment Amount 851.14	Cleared Date	Cleared Amount	St Reconcil
Payment yment Number Payment Docum	ount Currency: USD (US) Type: All Sequence Num Date	Supplier Name S: PERS LONG TERM CARE	Payment Curr Display Supplier Add ite Payment Amount 851.14	Cleared Date 23-SEP-15	Cleared Amount	St Reconcil
Payment yment Number Payment Docum 61607	Sequence Num Date IRWD CHECK 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR	Payment Curr Display Supplier Add ite Payment Amount 851.14	Cleared Date	Cleared Amount	Reconcil Reconcil
Payment yment Number Payment Docum 61607 61608	sequence Num Date Sequence Num Date 17-SEP-15 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL	Payment Curr Display Supplier Add ite Payment Amount 851.14	Cleared Date 23-SEP-15	Cleared Amount	Reconcil Reconcil
Payment yment Number Payment Docum 61607 61608 61609	Sequence Num Date Tentric IRWD CHECK 17-SEP-15 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54	Cleared Date	Cleared Amount	Reconcil Reconcil Reconcil
Payment Number Payment Docum 61607 61608 61610 661611 661612	Sequence Num Date T-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15	Cleared Amount	Reconcil Reconcil Reconcil Reconcil
Payment Number Payment Docum 61607 61609 61610 61611 661612 661613	Sequence Num Date Sequence Num Date 17-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80	Cleared Date 23-SEP-15 22-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15	Cleared Amount	Reconcil Reconcil Reconcil Reconcil
Payment Number Payment Docum 61607 61609 61610 61611 661612 661613 661614	Sequence Num Date Sequence Num Date 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15	US Dollar) Cleared Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67	Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil
Payment yment Number	Sequence Num Date	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 02-OCT-15 06-OCT-15	Cleared Amount	Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil
Payment Number Payment Docum 661607 661609 661610 661611 661612 661613 661614 661615 661615	Sequence Num Date Sequence Num Date 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15	US Dollar) Cleared Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67	Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil Reconcil
Payment Number Payment Docum 661607 661608 661610 661611 661612 661613 661614 661615 661616 661617 661618	Sequence Num Date Sequence Num Date 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 06-OCT-15 06-OCT-15 22-SEP-15 22-SEP-15	US Dollar) Cleared Amount	Reconcil
Payment Number Payment Docum 361607 361608 361610 361611 361612 361613 361614 361615 361616	Sequence Num Date Sequence Num Date 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PIT SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS SANTA ANA BLUE PRINT	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 02-OCT-15 06-OCT-15 22-SEP-15 22-SEP-15	US Dollar) Cleared Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08	Reconcil
Payment Number Payment Docum 361607 361609 361610 361611 361612 361614 361615 361616 361617 361618 361619 361620	Sequence Num Date Sequence Num Date 17-SEP-15	PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS SANTA ANA BLUE PRINT SANTA MARIA APTS SANTIAGO AQUEDUCT	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 06-OCT-15 06-OCT-15 22-SEP-15 22-SEP-15	US Dollar) Cleared Amount	Reconcil
Payment ayment Number	Sequence Num Date Sequence Num Date 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS SANTA ANA BLUE PRINT SANTA MARIA APTS SANTIAGO AQUEDUCT COMMISSION SHAMROCK SUPPLY CO	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 06-OCT-15 22-SEP-15 22-SEP-15 02-OCT-15 22-SEP-15 22-SEP-15	US Dollar) Cleared Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08 403.57	Reconcil
Payment Number Payment Number Payment Docum (61607) (61608) (61610) (61611) (61611) (61611) (61611) (61616) (61617) (61618) (61617) (61618) (61619) (61612) (61612) (61612) (61612) (61612) (61612) (61612) (61612) (61612)	Sequence Num Date Sequence Num Date 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS SANTA ANA BLUE PRINT SANTA MARIA APTS SANTIAGO AQUEDUCT COMMISSION SHAMROCK SUPPLY CO INC SHEA HOMES	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08 403.57	Cleared Date 23-SEP-15 22-SEP-15 24-SEP-15 21-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 06-OCT-15 02-OCT-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15	Cleared Amount	Reconcil
Payment Number Payment Number Payment Docum 861607 861609 861610 861611 861612 861613 861614 861615 861616 861617 861618 861619 861619	Sequence Num Date Sequence Num Date 17-SEP-15	Supplier Name S: PERS LONG TERM CARE PRAXAIR DISTRIBUTION INC PRE-PAID LEGAL SERVICES INC PRUDENTIAL OVERALL SUPPLY PTI SAND & GRAVEL INC PURE EFFECT INC RAINBOW DISPOSAL CO INC RANCHO MADERAS APTS RANCHO TIERRA APTS RED WING SHOES SAN LEON APTS SANTA ANA BLUE PRINT SANTA MARIA APTS SANTIAGO AQUEDUCT COMMISSION SHAMROCK SUPPLY CO INC SHEA HOMES	Payment Curr Display Supplier Add ite Payment Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08 403.57	Cleared Date 23-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 02-OCT-15 06-OCT-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 22-SEP-15 21-SEP-15 21-SEP-15	US Dollar) Cleared Amount 851.14 224.22 1,333.54 154.30 2,380.64 1,424.80 325.21 768.50 38.67 200.00 10.23 546.43 293.43 21,481.08 403.57	St Reconcil

361626	17-SEP-15	COMPANY SOUTHERN CALIFORNIA GAS COMPANY		2,131.56	23-SEP-15	2,131.56	Reconciled
361627	17-SEP-15	SPX CORP		1,272.97	21-SEP-15	1,272,97	Reconciled
361628	17-SEP-15	SUSAN A. SIROTA		4,195.00	22-SEP-15	4,195.00	Reconciled
361629	17-SEP-15	SWAINS ELECTRIC		3,032.80	21-SEP-15	3,832.80	Reconciled
		MOTOR SERVICE					
361630	17-SEP-15	TEKDRAULICS		9,986.60	25-SEP-15	9,986.60	Reconciled
361631	17-SEP-15	THE EASTWOOD		125.07	25-SEP-15	125.07	Reconciled
		COMPANY					
361632	17-SEP-15	THE FURMAN GROUP,		11,600.00	25-SEP-15	11,600.00	Reconciled
		INC.					
361633	17-SEP-15	THE GAS COMPANY		428.64	25-SEP-15	428.64	Reconciled
IRWD Ledger		Payment	Register For	01-SEP-15 To	30-SEP-15	Report Date: 12-	OCT-2015 10:52
BANK: Bank of America N.A.	Branc	h : Los Angeles		Account: Check	ing AP and PR	Page:	18
Bank Account Currency:	USD (US D	ollar)		Payment Curr	ency: USD (US	Dollar)	
Payment Type: All			Displ	ay Supplier Add	ress: No		

Cleared Payment Amount Date Cleared Amount Status Payment Number Sequence Num Date Supplier Name Payment Document : IRWD CHECK 41,850.20 24-SEP-15 41,850.20 Reconciled THE IRVINE COMPANY 361634 17-SEP-15 2,305.00 21-SEP-15 2,305,00 Reconciled 361635 17-SEP-15 THOMAS HARDER & CO 361636 17-SEP-15 THOMPSON 313.58 22-SEP-15 313.58 Reconciled INDUSTRIAL SUPPLY 173.65 21-SEP-15 173.65 Reconciled 361637 17-SEP-15 THYSSENKRUPP ELEVATOR CORPORATION 361638 17-SEP-15 TITAN OUTDOOR LLC 10,114.45 24-SEP-15 10,114.45 Reconciled 361639 17-SEP-15 TROPICAL PLAZA NURSERY INC 30,282.71 23-SEP-15 30,282.71 Reconciled 361640 17-SEP-15 TYCO INTEGRATED 680.90 22-SEP-15 680.90 Reconciled SECURITY, LLC U.S. HEALTHWORKS 880.00 21-SEP-15 880.00 Reconciled 361641 17-SEP-15 MEDICAL GROUP, P.C. 361642 17-SEP-15 ULINE INC 714.67 23-SEP-15 714.67 Reconciled ULTRA SCIENTIFIC 22-SEP-15 361643 17-SEP-15 487.35 487.35 Reconciled 17-SEP-15 UNITED PARCEL 21-SEP-15 83.38 Reconciled 361644 83.38 SERVICE INC 361645 17-SEP-15 630.56 23-SEP-15 630.56 Reconciled UNITED SITE SERVICES OF CALIFORNIA INC UNITED WAY OF 522,00 21-SEP-15 522.00 Reconciled 361646 17-SEP-15 ORANGE COUNTY UNIVAR USA INC 6,070.69 21-SEP-15 6,070.69 361647 17-SEP-15 Reconciled 17-SEP-15 URS CORPORATION 18,399.44 24-SEP-15 18,399.44 Reconciled 361649 17-SEP-15 VA CONSULTING, INC. 7,590.00 21-SEP-15 7,590.00 Reconciled Reconciled 17-SEP-15 VERIZON CALIFORNIA 50.17 22-SEP-15 50.17 361650 INC VERIZON WIRELESS 2,967,52 24-SEP-15 2,967.52 Reconciled 361651 17-SEP-15 SERVICES LLC 17-SEP-15 VILLA SIENNA APTS VRIDE INC 13,608,91 02-OCT-15 13,608,91 Reconciled 361652 17-SEP-15 10,110.00 24-SEP-15 10,110.00 Reconciled 361653 361654 17-SEP-15 VWR INTERNATIONAL, 3,079.13 22-SEP-15 3,079.13 Reconciled LLC 361655 17-SEP-15 WAKAYAMA, KAREN 23-SEP-15 115.01 Reconciled 361656 17-SEP-15 WALTERS WHOLESALE 424.50 23-SEP-15 424.50 Reconciled. ELECTRIC 361657 17-SEP-15 WATERLINE 2,840.00 21-SEP-15 2,840.00 Reconciled TECHNOLOGIES INC 361658 17-SEP-15 WATERSMART 17,974.42 24-SEP-15 17,974.42 Reconciled SOFTWARE, INC 361659 17-SEP-15 WAXIE'S 1,627,10 23-SEP-15 Reconciled ENTERPRISES, INC Payment Register For 01-SEP-15 To 30-SEP-15 IRWD Ledger Report Date: 12-OCT-2015 10:52 Branch : Los Angeles Account: Checking AP and PR BANK: Bank of America N.A. Page:

Payment Currency: USD (US Dollar) Bank Account 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 Docum	ent : IRWD CHECK						
361660	17-SEP-15	WECK LABORATORIES		160.00	20-SEP-15	160.00	Reconciled
361661	17-SEP-15	WESTERN EXTERMINATOR COMPANY		392.00	29-SEP-15	392.00	Reconciled
361662	17-SEP-15	WINDWOOD GLEN		56.86	22-SEP-15	56,86	Reconciled
361663	17-SEP-15	WIRELESS WATCHDOGS, LLC		432.00	25-SEP-15	432.00	Reconciled
361664	17-SEP-15	ZEE MEDICAL SERVICE CO		998.34	21-SEP-15	998.34	Reconciled
361665	18-SEP-15	US BANK NAT'L ASSOC N.DAKOTA	60 LIVINGSTON	11,780.13	22-SEP-15	11,780.13	Reconciled
361666	18-SEP-15	CITIGROUP GLOBAL MARKETS INC.	PITTSBURGH	2,655.21	23-SEP-15	2,655.21	Reconciled

361667	18-SEP-15	OLIN CORPORATION	ATLANTA	2,841.64	22-SEP-15	2,841.64	Reconciled
361668	18-SEP-15	CALIFORNIA BANK &		22,487.92	23-SEP-15	22,487.92	Reconciled
		TRUST	MALL				
361669	22-SEP-15	JCI JONES	CINCINNATI	4,523.78	25-SEP-15	4,523.78	Reconciled
		CHEMICALS INC					
361670	23-SEP-15	JCI JONES	CINCINNATI	9,909.90	28-SEP-15	9,909.90	Reconciled
		CHEMICALS INC		474 00	05 15	670.00	Reconciled
361671	23-SEP-15	REGENTS OF THE	7601	670.00	25-SEP-15	670.00	Reconciled
		UNIVERSITY OF	IRVINE BLV				
261672	00 CED 15	CALIFORNIA STATE BOARD OF	SACRAMENTO	1,328,00	29-SEP-15	1,328,00	Reconciled
361672	23-SEP-13	EOUALIZATION	SACRAMENTO	1,320.00	23 551 13	1,020,00	Reconciled
361673	24-SEP-15	Arant, Anita E		10.92			Negotiable
301073	LI DEL IO	(Anita)					
361674	24-SEP-15	Reinhart, Douglas		603.79	30-SEP-15	603.79	Reconciled
		J					
361675	24-SEP-15	Soto, Franklin E		106.40	29-SEP-15	106.40	Reconciled
		(Frank)					
361676	24-SEP-15			168.45	28-SEP-15	168.45	Reconciled
361677	24-SEP-15	Shanafelt, Shane	D	275.29	28-SEP-15	275.29	Reconciled
		(Shane)			00 ann 15	640 10	D
361678		LaMar, Steven E		649.19	28-SEP-15	649.19	Reconciled
361679		Rice, Tera L		1,559.07	01-OCT-15	1,559.07 10,834.25	Reconciled Reconciled
361680	24-SEP-15	HELPMATES STAFFIN	GIRVINE	10,034.25	30-SEP-15	10,634.25	Reconciled
261601	24-SEP-15	SERVICES		2,066,20	29-SEP-15	2,066,20	Reconciled
361681	Z4-SEF-15	ELECTRONICS INC		2,000.20	29-361-13	2,000.20	Reconciled
361682	24_CED_15	AIRGAS, INC.		554.43	28-SEP-15	554.43	Reconciled
361683		ALL AMERICAN SEWE	R	1,059.15	28-SEP-15	1,059.15	Reconciled
301003	24 001 10	TOOLS		1,003,110	2	-,	
361684	24-SEP-15	ALSTON & BIRD LLF		1,533.11	28-SEP-15	1,533.11	Reconciled
IRWD Ledger				01-SEP-15 To			OCT-2015 10:52
BANK: Bank of America N.A.	Branc	h : Los Angeles		Account: Checki			20
Bank Account Currency:	USD (US I	ollar)		Payment Curre	ency: USD (U	S Dollar)	
Payment Type: All			Displa	ay Supplier Add	ess: No		

Payment Number Seque	ence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document :							
361685	24-SEP-15	ALTMAN SPECIALTY		748.57	28-SEP-15	748.57	Reconciled
361686	24-SEP-15	PLANTS, INC APPLIED INDUSTRIAL TECHNOLOGIES - CA		112.68	28-SEP-15	112.68	Reconciled
361687	24-SEP-15	ARCADIS U.S., INC.		107.865.29	01-OCT-15	107,865.29	Reconciled
361688	24-CED-15	ASHFORD, WALT		472.81	30-SEP-15	472.81	Reconciled
361689	24-SEP-15			50.18	29-SEP-15	50.18	Reconciled
	24-SEP-15 24-SEP-15			3,590.13	29-SEP-15	3,590.13	Reconciled
361690				5,862.71	29-SEP-15	5,862.71	Reconciled
361691	24-SEP-15					48,51	Reconciled
361692	24-SEP-15	AT&T		48.51	29-SEP-15		
361693	24-SEP-15	AUTOZONE PARTS, INC.		812,17	29-SEP-15	812.17	Reconciled
361694	24-SEP-15	BARTEL ASSOCIATES, LLC		1,569.20	28-SEP-15	1,569.20	Reconciled
361695	24-SEP-15	BATTERIES PLUS AND BATTERIES PLUS BULBS		642.06	28-SEP-15	642.06	Reconciled
361696	24-SEP-15			327.40	29-SEP-15	327,40	Reconciled
361697	24-SEP-15	BECKHAM, ANTONY		25.14			Negotiable
361698		BELL TOWER FLORIST		97.19	05-OCT-15	97.19	Reconciled
361699	24-SEP-15	BILINGUAL TRAINING		1,910.00	02-OCT-15	1,910.00	Reconciled
361700	24-SEP-15			13,364.68			Negotiable
361701	24-SEP-15	BOWIE, ARNESON, WILES & GIANNONE		27,831.38			Negotiable
361702	24-SEP-15	C WELLS PIPELINE MATERIALS INC		9,761.59	30-SEP-15	9,761.59	Reconciled
361703	24-SEP-15	CALIFORNIA DEPT OF PUBLIC HEALTH		473.00	29-SEP-15	473,00	Reconciled
361704	24-SEP-15	CALIFORNIA PACIFIC		2,433.51	30-SEP-15	2,433.51	Reconciled
361705	24-SEP-15	CANON FINANCIAL SERVICES, INC		8,817.57	28-SEP-15	0,817.57	Reconciled
361706	24_SED_15	CARL WARREN & CO		2,500.00	28-SEP-15	2,500,00	Reconciled
361707		CAROLLO ENGINEERS,		1,756.00	29-SEP-15	1,756.00	Reconciled
261700	24 GED 15			96.32	28-SEP-15	96.32	Reconciled
361708		CHERKASKY, ANDREW			20-3EF-13	90.52	Negotiable
361709		CITY OF IRVINE		2,599.67	05 0GB 15	1,154.50	
361710	24-SEP-15	CITY OF NEWPORT BEACH		1,154.50	05-OCT-15	1,154.50	Reconciled
361711	24-SEP-15	CITY OF SANTA ANA		86.44	28-SEP-15	96.44	Reconciled
361712	24-SEP-15	CLA-VAL COMPANY		393.80	29-SEP-15	393.80	Reconciled
IRWD Ledger		Pavment I	Register Fo	or 01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10:5
BANK: Bank of Ameri	ca N.A. Brand	ch : Los Angeles	-	Account: Check			21
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Page	Payment 1000 CHICK	Payment Number Sequence Num						
REPORT R	REPORT R						221000000000000000000000000000000000000	344
DEPOSTORY 19.77 19.70 19.77	1977 1978 1979	361713	24-SEP-15	COATING	3,990.00	29-SEP-15	3,990.00	Reconcile
187714 24-88F-15 CORLIENE, SIGNANCE 19.77 OP-CH-15 19.77 Recommendation 19.77 Amount 19.77 19.77 Amount 19.77 Amou	1877 24-88F-15 COMENNE 19.77 27-08-15 19.77 28-08-15			INSPECTION				
14716	140110	361714	24-SEP-15	COLLIER, KANDACE	19.77	07-OCT-15	19.77	Reconcile
160116	GROUP LICE GRO	361715	24-SEP-15		269.24	28-SEP-15	269.24	Reconcile
160116	GROUP LICE GRO	361716	24-SEP-15	COX COMMUNICATIONS	251.97	28-SEP-15	251.97	Reconcile
CAMPAIN CAMP	CARPORATION CARPORATION 7,57,50 01-007-15 7,57,10 New Control 7,			GROUP LLC				
ACCESS Content Conte	ANTER DISTRICT ANTER DISTRICT	361718		CODDODDETON				Reconcile
ACCESS Content Conte	ANTER DISTRICT ANTER DISTRICT	361719	24-SEP-15	DATAGEAR, INC.	757.30			Reconcile
AND	ANTER DISTRICT ANTER DISTRICT		24-SEP-15	DIRECTV INC	110.98	28-SEP-15	110.98	
ACCESS Content Conte	ANTER DISTRICT ANTER DISTRICT		24-SEP-15	DURAN CONSTRUCTION	868.48	29-SEP-15	868.48	Reconcile
1967264 24-58F-15 SISS 3,240.00 24-58F-15 3,240.00 Reconcil	194726 24-88F-15 RISES 3,240.00 25-88F-15 3,240.00 Reconcil 194726	361723	24-SEP-15	EAST ORANGE COUNTY	5,851.56	29-SEP-15	5,851.56	Reconcil
181725 24-85P-15 ELECTRABOUN 7,314.00 30-85P-15 7,314.00 Reconcil 1	181725 24-85P-15 ELECTRABON 7,314.00 30-85P-15 7,134.00 Reconcil	361724	24-SEP-15	EHS		28-SEP-15	3,240.00	Reconcil
Second S	INC.		24-SEP-15			30-SEP-15	7,314.00	
10.00 24-8EP-15 EMD MILLIFORE 1,722,92 02-OCT-15 1,722,92 Reconcil	10.00 24-58F-15 EMD MILLIFORE 1,722,92 02-007-15 1,722,92 Reconcil- 26.1729 24-58F-15 EMCOUNTE LIGHTING 2,434,99 28-58F-15 2,434,99 Reconcil- 16.1729 24-58F-15 EMCOUNTE LIGHTING 2,434,99 28-58F-15 2,434,99 Reconcil- 16.1731 24-58F-15 FARKELL 180,99 05-007-15 29,998,48 Reconcil- 16.1731 24-58F-15 FARKELL 180,99 05-007-15 180,99 Reconcil- 16.1731 24-58F-15 FARKELL 180,99 05-007-15 180,99 Reconcil- 16.1731 24-58F-15 FARKELL 180,99 05-007-15 180,99 Reconcil- 16.1731 24-58F-15 FARKELL 180,99 05-007-15 069,74 Reconcil- 16.1733 24-58F-15 FARKELL 180,99 05-007-15 069,74 Reconcil- 16.1733 24-58F-15 FERNISSON MAVID 2,175,00 30-58F-15 069,74 Reconcil- 16.1736 24-58F-15 FERNISSON MAVID 2,175,00 30-58F-15 069,74 Reconcil- 16.1737 24-58F-15 FERNISSON MAVID 2,175,00 30-58F-15 069,74 Reconcil- 16.1738 24-58F-15 FERNISSON MAVID 2,175,00 30-58F-15 069,74 Reconcil- 16.1739 24-58F-15 FERNISSON MAVID 2,175,00 30-58F-15 14,507,26 Reconcil- 16.1739 24-58F-15 GANABL LUMBER CO.	361726	24-SEP-15	ELITE EQUIPMENT, INC.	270.56			Reconcil
RESOURCE CALLED RESOURCE RESOURCE CALLED RESOURCE RESOURCE CALLED RESOURCE RESOURC	RESOURCE CALL STOCK CALL	361727		EMD MILLIPORE	1,722.92	02-OCT-15	1,722.92	Reconcil
24-SEP_16 SECURITY LIGHTING 2,434,99 28-SEP_15 2,434,99 Reconcil	24-SEP_16 EXECUTIVE LIGHTING 2,434,99 28-SEP_15 2,434,99 Reconcil	361728	24-SEP-15	ENVIRONMENTAL	269.36	01-OCT-15	269.36	Reconcile
## ELECTRIC 24-SEP-15 MARBANIN, MSTI N. 29,096.40 05-OCT-15 29,098.40 Reconcil Not	## SELECTRIC ## SE	361729	24-SEP-15	ASSOCIATES EXECUTIVE LIGHTING	2,434.99	28-SEP-15	2,434.99	Reconcil
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Payment Register For 01-58P-15 To 30-58P-15 Report Date: 12-0CT-2015 RANK: Bank of America N.A. Branch: Los Angeles Payment Currency: USD (US Dollar) Payment Type: All Paym	Payment Register For 01-58P-15 To 30-58P-15 Report Date: 12-0CT-2015	361735	24-SEP-15	FERGUSON, DAVID	2,175.00	30-SEP-15	2,175.00	Reconcile
RMD Ledger Bank: Bank of America N.A. Branch : Los Angeles Bank: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles Agment Currency: USD (US Dollar) Page: 22 Page	RMD Ledger Bank: Bank of America N.A. Branch : Los Angeles Bank: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles ABANK: Bank of America N.A. Branch : Los Angeles Agment Currency: USD (US Dollar) Page: 22 Page	361737	24-SEP-15 24-SEP-15	FISHER SCIENTIFIC	5,052.99	29-SEP-15 28-SEP-15	5,052.99	Reconcil
Agment Number Sequence Num Date Supplier Name Site Payment Amount Date Cleared Amount St. Payment Document: IRWD CHECK 361739	Agment Number Sequence Num Date Supplier Name Site Payment Amount Date Cleared Amount St. Payment Document: IRWD CHECK 361739	361738	24-SEP-15	COMPANY LLC FISHER, SANDRA	45,56	06-OCT-15	45.56	Reconcil
Agment Number Sequence Num Date Supplier Name Site Payment Amount Date Cleared Amount St. Payment Document: IRWD CHECK 361739	Agment Number Sequence Num Date Supplier Name Site Payment Amount Date Cleared Amount St. Payment Document: IRWD CHECK 361739	BANK: Bank of America N.A. Bank Account Currency: Payment Type: All	Branc USD (US D	rayment in the Los Angeles (collar)	Register For UI-SEP-15 To Account: Check Payment Curr Display Supplier Add	ing AP and Pl ency: USD (ress: No	Report Date: 12- Report Date: 12- Report Date: 12- Report Date: 12-	22
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RESTORATION SCIENCES, INC. 361745 24-SEP-15 HACH COMPANY 685.80 28-SEP-15 685.80 Reconcile 361746 24-SEP-15 HAMILTON, KURT 2,245,36 28-SEP-15 2,245,36 Reconcile 361747 24-SEP-15 HAMILTON, KURT 2,245,36 28-SEP-15 2,245,36 Reconcile INSURANCE COMPANY 361748 24-SEP-15 HELPMATES STAFFING SERVICES 361749 24-SEP-15 HERMAN WEISSKER 100 361750 24-SEP-15 HILL BROTHERS CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 361752 24-SEP-15 HOME DEPOT USA INC 361753 361754 24-SEP-15 IBM CORPORATION 361754 361755 361755 361756 361757 361757 361757 361758 361757 361758	RESTORATION SCIENCES, INC. 361745 24-SEP-15 HACH COMPANY 685.80 28-SEP-15 685.80 Reconcile 361746 24-SEP-15 HAMILTON, KURT 2,245,36 28-SEP-15 2,245,36 Reconcile 361747 24-SEP-15 HAMILTON, KURT 2,245,36 28-SEP-15 2,245,36 Reconcile INSURANCE COMPANY 361748 24-SEP-15 HELPMATES STAFFING SERVICES 361749 24-SEP-15 HERMAN WEISSKER 100 361750 24-SEP-15 HILL BROTHERS CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 361752 24-SEP-15 HOME DEPOT USA INC 361753 361754 24-SEP-15 IBM CORPORATION 361754 361755 361755 361756 361757 361757 361757 361758 361757 361758	361741 361742	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER	32,442,38 77,140.25 2,151.32	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15	1,232,38 32,442.38 77,140.25 2,151.32	Reconcile Reconcile Reconcile
361745	361745	361741 361742	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY	32,442,38 77,140.25 2,151.32	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15	1,232,38 32,442.38 77,140.25 2,151.32	Reconcile Reconcile Reconcile
361746 24-SEP-15 HAMILTON, KURT 2,245.36 28-SEP-15 2,245.36 Reconcile 361747 24-SEP-15 HARTFORD LIFE 25,343.13 02-OCT-15 25,343.13 Reconcile INSURANCE COMPANY 361748 24-SEP-15 HELPMATES STAFFING 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 361749 24-SEP-15 HELPMATES STAFFING 699.95 28-SEP-15 699.95 Reconcile INC 361750 24-SEP-15 HILL BROTHERS 6,405.90 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 878.43 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361756 24-SEP-15 IRANI, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile	361746 24-SEP-15 HAMILTON, KURT 2,245.36 28-SEP-15 2,245.36 Reconcile 361747 24-SEP-15 HARTFORD LIFE 25,343.13 02-OCT-15 25,343.13 Reconcile INSURANCE COMPANY 361748 24-SEP-15 HELPMATES STAFFING 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 361749 24-SEP-15 HELPMATES STAFFING 699.95 28-SEP-15 699.95 Reconcile INC 361750 24-SEP-15 HILL BROTHERS 6,405.90 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 878.43 Reconcile 361754 24-SEP-15 IDEX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIBUTION, INC 361756 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 SEP-15 1,088.80 Reconcile	361741 361742 361743	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT	32,442.38 77,140.25 2,151.32 155.79	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15	1,232.38 32,442.38 77,140.25 2,151.32 155.79	Reconcile Reconcile Reconcile Reconcile
361747 24-SEP-15 HARTFORD LIFE 25,343.13 02-OCT-15 25,343.13 Reconcile INSURANCE COMPANY 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 18,405.90 28-SEP-15 699.95 Reconcile INC CHEMICAL COMPANY 18,000 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 19,000 11,005.26 30-SEP-15 1,005.26 Reconcile Reconcile ASSOCIATES IRVINE 18,000 28-SEP-15 1,005.26 Reconcile ASSOCIATES IRVINE 19,000 11,005.26 30-SEP-15 1,005.26 Reconcile Reconcile SERVINE 19,000 11,005.26 SEP-15 1,005.26 Reconcile SERVINE 19,000 11,005.26 SEP-15 1,000 11,000 11,005.26 SEP-15 1,000 11,005.26 S	361747 24-SEP-15 HARTFORD LIFE 25,343.13 02-OCT-15 25,343.13 Reconcile INSURANCE COMPANY 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 18,405.90 28-SEP-15 699.95 Reconcile INC 18,065.26 SEP-15 18,405.90 Reconcile CHEMICAL COMPANY 18,065.26 SEP-15 18,405.90 Reconcile SERVICES 18,405.90 SEP-15 18,405.90 Reconcile SERVICES 18,405.90 SEP-15 18,665.26 Reconcile SEP-15 HUNSAKER 6 26,245.00 30-SEP-15 18,665.26 Reconcile ASSOCIATES IRVINE 18 COMPORATION 3,821.00 28-SEP-15 26,245.00 Reconcile SEP-15	361741 361742 361743 361744	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC.	32,442.38 77,140.25 2,151.32 155.79 2,103.00	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15	1,232.38 32,442.38 77,140.25 2,151.32 155.79 2,103.00	Reconcile Reconcile Reconcile Reconcile
361748 24-SEP-15 HELPMATES STAFFING 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 361749 24-SEP-15 HERMAN WEISSKER 699.95 28-SEP-15 699.95 Reconcile INC 361750 24-SEP-15 HILL BROTHERS 6,405.90 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile ASSOCIATES IRVINE 361752 24-SEP-15 HEM CORPORATION 3,821.00 28-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile SIPTISHUTION, INC 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC SUPPLY INC CUSTODIAN RECONCILE SUPPLY CASH 1,088.80 Reconcile CUSTODIAN	361748 24-SEP-15 HELPMATES STAFFING 17,144.46 30-SEP-15 17,144.46 Reconcile SERVICES 361749 24-SEP-15 HERMAN WEISSKER 699.95 28-SEP-15 699.95 Reconcile INC 361750 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile SERVICES 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile ASSOCIATES IRVINE 361752 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile SERVISE 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRVINE 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE 6 806.82 SEP-15 1,088.80 Reconcile SUPPLY INC 361758 361758 24-SEP-15 IRVINE PIPE 6 806.82 SEP-15 1,088.80 Reconcile SUPPLY INC 361758 361758 361759 36175	361741 361742 361743 361744	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY	32,442.38 77,140.25 2,151.32 155.79 2,103.00	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15	1,232,38 32,442,38 77,140,25 2,151,32 155.79 2,103.00	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
361749 24-SEP-15 HERMAN WEISSKER 699.95 28-SEP-15 699.95 Reconcile 361750 24-SEP-15 HILL BROTHERS 8,405.90 28-SEP-15 8,405.90 Reconcile 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER 6 26,245.00 30-SEP-15 26,245.00 Reconcile 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361756 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile	361749 24-SEP-15 HERMAN WEISSKER 699.95 28-SEP-15 699.95 Reconcile 361750 24-SEP-15 HILL BROTHERS 8,405.90 28-SEP-15 8,405.90 Reconcile 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER 6 26,245.00 30-SEP-15 26,245.00 Reconcile 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile 361754 24-SEP-15 IDEXX 678.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIBUTION, INC 361755 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361756 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile	361741 361742 361743 361744 361745 361746	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GHO INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HAMILTON, KURT HARTFORD LIFE	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15	1,232.38 32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
361750 24-SEP-15 HILL BROTHERS 8,405.90 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER 6 26,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IDEX 878.43 28-SEP-15 878.43 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361756 24-SEP-15 IRANI, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile	361750 24-SEP-15 HILL BROTHERS 8,405.90 28-SEP-15 8,405.90 Reconcile CHEMICAL COMPANY 361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER 6 26,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IDEX 878.43 28-SEP-15 878.43 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIAL METAL 613.50 29-SEP-15 613.50 Reconcile 361756 24-SEP-15 IRANI, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRWINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile	361741 361742 361743 361744 361745 361746 361747	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 28-SEP-15 02-OCT-15	1,232,38 32,442,38 77,140,25 2,151,32 155.79 2,103.00 685.80 2,245,36 25,343.13	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER & 26,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IEM CORPORATION 3,821.00 28-SEP-15 878.43 Reconcile DISTRIBUTION, INC 361754 24-SEP-15 INDUSTRIBL METAL 878.43 28-SEP-15 613.50 Reconcile SUPPLY CO 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 1,088.80 Reconcile SUPPLY INC	361751 24-SEP-15 HOME DEPOT USA INC 1,065.26 30-SEP-15 1,065.26 Reconcile 361752 24-SEP-15 HUNSAKER & 26,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IEM CORPORATION 3,821.00 28-SEP-15 878.43 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIBUTION, INC 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 8	361741 361742 361743 361744 361745 361746 361747	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15	1,232.38 32,442.39 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
361752 24-SEP-15 HUNSAKER 6 20,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile B78.43 28-SEP-15 B78.43 Reconcile B78.43 28-SEP-15 B78.43 Reconcile B78.43 28-SEP-15 B78.43 Reconcile B7	361752 24-SEP-15 HUNSAKER 6 20,245.00 30-SEP-15 26,245.00 Reconcile ASSOCIATES IRVINE 361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 678.43 Reconcile 361755 24-SEP-15 INDUSTRIBUTION, INC 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRANI, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361757 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIET CASH 1,088.80 28-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIET CASH 1,088.80 28-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 IRVINE PIET CASH 1,088.	361741 361742 361743 361744 361745 361746 361747 361748	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GHD INC. GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 28-SEP-15 02-OCT-15 30-SEP-15	1,232,38 32,442,38 77,140.25 2,151,32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile DISTRIBUTION, INC 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRWIN, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 IRWID-PETTY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile CUSTODIAN	361753 24-SEP-15 IBM CORPORATION 3,821.00 28-SEP-15 3,821.00 Reconcile 361754 24-SEP-15 IDEXX 878.43 28-SEP-15 878.43 Reconcile 361755 24-SEP-15 INDUSTRIAL METAL SUPPLY CO 361756 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361757 24-SEP-15 IRVINE PIPE 6 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 INDUSTRIAL METAL 1,008.80 28-SEP-15 1,088.80 Reconcile 361757 24-SEP-15 INDUSTRIAL METAL 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 INDUSTRIAL METAL 1,008.80 28-SEP-15 1,088.80 Reconcile 361758 24-SEP-15 INDUSTRIAL METAL 1,008.80 28-SEP-15 1,088.80 Reconcile	361741 361742 361743 361744 361745 361746 361747 361748 361749	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15	1,232,38 32,442,38 77,140,25 2,151,32 155.79 2,103.00 685.80 2,245,36 25,343.13 17,144.46 699.95 8,405.90	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
DISTRIBUTION, INC STRIBUTION, INC STRIBUTION, INC STRIBUTION, INC STRIBUTION, INC STRIBUTION, INC STRIBUTION, INC STRIBUTION, INC SUPPLY CO SUPPLY CO SUPPLY CO SUPPLY INC SUPP	DISTRIBUTION, INC STRIBUTION, INC STRIBUTION,	361741 361742 361743 361744 361745 361746 361747 361748 361749 361750 361751	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY HULL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER 6	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15	1,232,38 32,442,39 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26	Reconcile
SUPPLY CO 361756 24-SEP-15 TRANI, KATY 124.34 08-OCT-15 124.34 Reconcile 361757 24-SEP-15 TRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile 361758 24-SEP-15 TRVINE PIPE & SUPPLY INC SUPPLY INC SUPPLY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile 361758 CUSTODIAN 1,088.80 28-SEP-15 1,088.80 Reconcile 361758 R	SUPPLY CO 124.34 08-OCT-15 124.34 Reconcile 124.35 Reconcile 124.36 Reconci	361741 361742 361743 361744 361745 361746 361747 361748 361749 361750 361751 361752 361753	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER & ASSOCIATES IRVINE IBM CORPORATION	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00	29-SEP-15 02-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 30-SEP-15 30-SEP-15 30-SEP-15	1,232,38 32,442,39 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00	Reconcile
361757 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRWD-PETTY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile CUSTODIAN	361757 24-SEP-15 IRVINE PIPE & 806.82 29-SEP-15 806.82 Reconcile SUPPLY INC 361758 24-SEP-15 IRWD-PETTY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile CUSTODIAN	361741 361742 361743 361744 361745 361746 361747 361748 361750 361750 361751 361752 361753 361753	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER & ASSOCIATES IRVINE IBM CORPORATION IDEXX DISTRIBUTION, INC	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43	29-SEP-15 02-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 30-SEP-15 30-SEP-15	1,232,38 32,442,38 77,140,25 2,151,32 155.79 2,103.00 685.80 2,245,36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43	Reconcile
361758 24-SEP-15 IRWD-PETTY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile CUSTODIAN	361758 24-SEP-15 IRWD-PETTY CASH 1,088.80 28-SEP-15 1,088.80 Reconcile CUSTODIAN	361741 361742 361743 361744 361744 361746 361747 361748 361749 361750 361751 361752 361753 361754	24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER & ASSOCIATES IRVINE IBM CORPORATION IDEXX DISTRIBUTION, INC INDUSTRIAL METAL SUPPLY CO	32,442.36 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 678.43 613.50	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15	1,232.38 32,442.39 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43 613.50	Reconcile
		361741 361742 361743 361744 361745 361746 361747 361748 361749 361750 361751 361752 361753 361754 361755 361755	24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HILL BROTHERS INC HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER & ASSOCIATES IRVINE IBM CORPORATION IDEXX DISTRIBUTION, INC INDUSTRIAL METAL SUPPLY CO IRANI, KATY IRVINE PIPE &	32,442.38 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43 613.50 124.34	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 30-SEP-15 30-SEP-15	1,232,38 32,442,38 77,140,25 2,151,32 155.79 2,103.00 685.80 2,245,36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43 613.50	Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile Reconcile
	2,500,00 Z9-5EF-15 Z,500,00 Keconcile	361741 361742 361743 361744 361745 361746 361747 361748 361749 361750 361751 361752 361753 361753	24-SEP-15 24-SEP-15	GENERAL PUMP COMPANY INC GRAINGER HAAKER EQUIPMENT COMPANY HABITAT RESTORATION SCIENCES, INC. HACH COMPANY HAMILTON, KURT HARTFORD LIFE INSURANCE COMPANY HELPMATES STAFFING SERVICES HERMAN WEISSKER INC HILL BROTHERS CHEMICAL COMPANY HOME DEPOT USA INC HUNSAKER & ASSOCIATES IRVINE IBM CORPORATION IDEXX DISTRIBUTION, INC INDUSTRIAL METAL SUPPLY CO IRANI, KATY IRVINE PIPE & SUPPLY INC	32,442.36 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 678.43 613.50 124.34 806.82	29-SEP-15 02-OCT-15 01-OCT-15 29-SEP-15 28-SEP-15 02-OCT-15 28-SEP-15 02-OCT-15 30-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15 28-SEP-15	1,232.38 32,442.39 77,140.25 2,151.32 155.79 2,103.00 685.80 2,245.36 25,343.13 17,144.46 699.95 8,405.90 1,065.26 26,245.00 3,821.00 878.43 613.50 124.34 806.82	Reconcile

361760	24-SEP-15	KIMBALL MIDWEST		909,91	28-SEP-15	909.91	Reconciled
361761	24-SEP-15	KINNING, DERIK		23.96	30-SEP-15	23.96	Reconciled
361762	24-SEP-15	KONECRANES INC		4,740.00	28-SEP-15	4,740.00	Reconciled
361763	24-SEP-15	KS DIRECT LLC		745.20	28-SEP-15	745.20	Reconciled
361764	24-SEP-15	L. G. SUPPLY		1,094.68			Negotiable
		COMPANY					
361765	24-SEP-15	LAGUNA BEACH		4,826.51	29-SEP-15	4,826.51	Reconciled
		COUNTY WATER					
		DISTRICT					
361766	24-SEP-15	LANDCARE HOLDINGS,		55,664.00	30-SEP-15	55,664.00	Reconciled
		INC.					
361767	24-SEP-15	LEE, BONNIE		1,220.74	29-SEP-15	1,220.74	Reconciled
IRWD Ledger		Payment Regis	ter For	01-SEP-15 To	30-SEP-15	Report Date: 12-	-OCT-2015 10:52
BANK: Bank of America N.A.	Branc	h : Los Angeles		Account: Check	ing AP and PR	Page:	23
Bank Account Currency:	USD (US D	ollar)		Payment Curr	ency: USD (US	Dollar)	
			D. J		11-		

Display Supplier Address: No Payment Type: All

Payment Number	Sequence Num Date	Supplier Name Site	Payment Amount	Cleared Date	Cleared Amount	Status
	nt : IRWD CHECK					
361768	24-SEP-15	LEE, HYUN J	140.29	28-SEP-15	140.29	Reconciled
361769		LENNAR HOMES	200,00	28-SEP-15	200,00	Reconciled
361770		LEWIS OPERATING CORP	200.00	30-SEP-15	200.00	Reconciled
361771	24-SEP-15	LIAN, JING	29.18	20-SEP-15	29.18	Reconciled
361772	24-SEP-15	LILLESTRAND LEADERSHIP CONSULTING, INC.	586.03	05-OCT-15	586.03	Reconciled
361773	24-SEP-15	LUBRICATION ENGINEERS, INC.	565.27	28-SEP-15	565.27	Reconciled
361774	24-SEP-15	M & G PROPERTIES, LLC	450.00	29-SEP-15	450.00	Reconciled
361775	24-SEP-15	MARVIN GARDENS LLC	2,593.70	24-SEP-15	2,593.70	Reconciled
361776		MBC APPLIED ENVIRONMENTAL SCIENCES	1,300.00	28-SEP-15	1,300.00	Reconciled
361777	24-SEP-15	MBF CONSULTING, INC.	6,720.00	30-SEP-15	6,720.00	Reconciled
361778	24-SEP-15	MC FADDEN-DALE INDUSTRIAL	613.56	29-SEP-15	613.56	Reconciled
361779	24-SEP-15	MC MASTER CARR SUPPLY CO	766,74	28-SEP-15	766.74	Reconciled
361780	24-SEP-15	METTLER-TOLEDO INC	1,065.95	28-SEP-15	1,065.95	Reconciled
361781	24-SEP-15	MICHAEL BAKER INTERNATIONAL, INC.	7,706.68	28-SEP-15	7,706.68	Reconciled
361782	24-SEP-15	MISCOWATER	2,906.84	28-SEP-15	2,906.84	Reconciled
361783	24-SEP-15	MOBILE MODULAR MANAGEMENT CORPORATION	972.00	29-SEP-15	972.00	Reconciled
361784	24-SEP-15	MORTON SAFETY CO	1,231.20	20-SEP-15	1,231,20	Reconciled
361785	24-SEP-15	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	43,139.41	30-SEP-15	43,139,41	Reconciled
361786	24-SEP-15	NATURES IMAGE INC	1,562.50	28-SEP-15	1,562.50	Reconciled
361787	24-SEP-15	NOVACOAST INC	4,593.75	28-SEP-15	4,593.75	Reconciled
361700	24-SEP-15	OCTA	2,405.00	29-SEP-15	2,405.00	Reconciled
361789	24-SEP-15	OLIN CORPORATION	19,806.08	01-OCT-15	19,806.08	Reconciled
361790	24-SEP-15	SUPPORT	1,597.68	28-SEP-15	1,597.68	Reconciled
361791	24-SEP-15	ORANGE COUNTY AUTO PARTS CO	1,735.32	28-SEP-15	1,735.32	Reconciled
361792	24-SEP-15	ORANGE COUNTY SANITATION DISTRICT	1,570.00	28-SEP-15	1,570.00	Reconciled
IRWD Ledger		Payment Regist	er For 01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10:52

IRWD Ledger Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT
BANK: Bank of America N.A. Branch: Los Angeles Account: Checking AP and PR Page: 24
Bank Account 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 Docum	ent : IRWD CHECK						
361793	24-SEP-15	ORANGE COUNTY WATER DISTRICT		182,210.60	29-SEP-15	182,210.60	Reconciled
361794	24-SEP-15	OUTSOURCE TECHNICAL LLC		44,516.00	30-SEP-15	44,516.00	Reconciled
361795	24-SEP-15	OZONIA NORTH AMERICA, LLC		27,746.95	01-OCT-15	27,746.95	Reconciled
361796	24-SEP-15	PACIFIC PARTS & CONTROLS INC		10,666.95	30-SEP-15	10,666.95	Reconciled
361797	24-SEP-15	PACIFIC PARTY RENTAL		393.00	07-OCT-15	393.00	Reconciled
361798	24-SEP-15	PARKHOUSE TIRE INC		1,746.06	29-SEP-15	1,746.06	Reconciled
361799	24-SEP-15	PELLETIER & ASSOCIATES, INC.		2,680.00	01-OCT-15	2,680.00	Reconciled
361800	24-SEP-15	PINNACLE TOWERS		640.42	28-SEP-15	640.42	Reconciled
361801	24-SEP-15	PIVOT INTERIORS		29,974.67	30-SEP-15	29,974.67	Reconciled

		INC				
361802	24-SEP-15	PRAXAIR	242,55	28-SEP-15	242.55	Reconciled
		DISTRIBUTION INC				
361903	24-SEP-15	PUMP CHECK	2,695.00	07-OCT-15	2,695.00	Reconciled
361804	24-SEP=15	PYRO-COMM SYSTEMS	6,732.00	28-SEP-15	6,732.00	Reconciled
		INC				
361805	24-SEP-15	R & R INDUSTRIAL	4,000.00	29-SEP-15	4,000.00	Reconciled
		SERVICES, INC.				
361806	24-SEP-15	R C FOSTER	193,106.02	30-SEP-15	193,106.02	Reconciled
		CORPORATION				
361807	24-SEP-15	RAM AIR	6,556.42	29-SEP-15	6,556.42	Reconciled
		ENGINEERING INC				
361808	24-SEP-15	RAO, BEIDUO	13.43	28-SEP-15	13.43	Reconciled
361809	24-SEP-15	REACH EMPLOYEE	907.20	06-OCT-15	907.20	Reconciled
		ASSISTANCE INC				
361810	24-SEP-15	REFRIGERATION	206.63	29-SEP-15	206.63	Reconciled
		SUPPLIES				
		DISTRIBUTOR				
361811	24-SEP-15	RINCON TRUCK	1,084.15	28-SEP-15	1,084.15	Reconciled
		CENTER INC.				
361812	24-SEP-15	RMS ENGINEERING &	14,380.00	30-SEP-15	14,380.00	Reconciled
		DESIGN, INC.				
361813	24-SEP-15	ROBERT HALF	1,450.00	28-SEP-15	1,458.00	Reconciled
		INTERNATIONAL,				
		INC.				
361814	24-SEP-15	SANTA ANA BLUE	670.40	30-SEP-15	670.40	Reconciled
		PRINT				
361815	24-SEP-15	SANTA MARGARITA	2,113.83	28-SEP-15	2,113.83	Reconciled
		FORD				0045 40 50
IRWD Ledger		Payment Register For	01-SEP-15 To	30-SEP-15	Report Date: 12	-OCT-2015 10:52

IRWD Ledger Payment Register For 01-SEP-15 To 30-SEP-15 Report Date: 12-OCT-2015 10:5
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

Cleared Payment Amount Date Cleared Amount Status Supplier Name Payment Number Sequence Num Date Payment Document : IRWD CHECK 77,929.88 30-SEP-15 77,929.88 Reconciled 24-SEP-15 SANTA MARGARITA 361816 WATER DISTRICT 63,741.60 SANTIAGO AQUEDUCT 63,741.60 Reconciled 361817 24-SEP-15 02-OCT-15 COMMISSION 361818 24-SEP-15 SCHULER 240,284,50 30-SEP-15 240,284,50 Reconciled ENGINEERING CORPORATION 26.05 30-SEP-15 26.05 Reconciled SCOTTINI, KRISTA SECURTEC DISTRICT 361819 24-SEP-15 12,379.50 12,379.50 Reconciled 24-SEP-15 06-OCT-15 361820 PATROL, INC. 24-SEP-15 SHAMROCK SUPPLY CO 4,435.08 28-SEP-15 4,435.08 Reconciled 361821 7,178.26 SIRIUS COMPUTER 7,178,26 29-SEP-15 Reconciled 361822 24-SEP-15 SOLUTIONS INC 466,963,96 361823 24-SEP-15 SOUTHERN 466,963,96 25-SEP-15 Reconciled CALIFORNIA EDISON COMPANY SOUTHERN COUNTIES 28-SEP-15 3,024.98 Reconciled 361824 24-SEP-15 3,024.98 LUBRICANTS LLC 48,521,10 48,521.10 Reconciled 361825 24-SEP-15 SUNNYHILLS 25-SEP-15 RESTORATION 24-SEP-15 TESTAMERICA 192.15 29-SEP-15 192.15 Reconciled 361826 LABORATORIES, INC Reconciled 24-SEP-15 THE GAS COMPANY 684.59 30-SEP-15 684.59 361827 24-SEP-15 THE IRVINE COMPANY 90.00 01-OCT-15 90.00 Reconciled 361828 LLC 24-SEP-15 TIC-IPG-COMMON 275.56 07-OCT-15 275.56 Reconciled 361829 361830 24-SEP-15 TIC-OFFICE 183.32 07-OCT-15 183.32 Reconciled PROPERTIES 9.507.00 361831 24-SEP-15 TROPICAL PLAZA 9,507.00 28-SEP-15 Reconciled NURSERY INC 24-SEP-15 TROPICAL PLAZA 3,377.00 28-SEP-15 3,377.00 Reconciled 361832 NURSERY INC 3,121.52 24-SEP-15 TRUCPARCO 3,121.52 06-OCT-15 Reconciled 361833 24-SEP-15 TSI INCORPORATED 8,141.78 28-SEP-15 8,141.78 Reconciled Negotiable 361835 24-SEP-15 TURTLE ROCK PARK & 3,541,51 RECREATION 2,958.52 Reconciled 2.958.52 28-SEP-15 361836 24-SEP-15 TYCO INTEGRATED SECURITY, LLC 361837 24-SEP-15 ULTRA SCIENTIFIC 120.80 29-SEP-15 120,80 Reconciled Reconciled 40.90 28-SEP-15 40.90 361838 24-SEP-15 UNITED PARCEL SERVICE INC 1,000.00 1,000.00 30-SEP-15 Reconciled 361839 24-SEP-15 UNITED STATES POST OFFICE Report Date: 12-OCT-2015 10:52 Payment Register For 01-SEP-15 To 30-SEP-15 IRWD Ledger Account: Checking AP and PR Payment Currency: USD (US Dollar) Page: BANK: Bank of America N.A. Branch : Los Angeles Bank Account Currency: USD (US Dollar) Payment Type: All Display Supplier Address: No

361840	24-SEP-15	US BANK NAT'L ASSOCIATION NORTH		89,095.97	06-OCT-15	89,095.97	Reconciled
		DAKOTA					- (2.2
361841 361842		VARGAS, EDWIN VERIZON CALIFORNIA INC	1	44.18 265.65	05-OCT-15 29-SEP-15		Reconciled Reconciled
361843	24-SEP-15	VERTECH INDUSTRIAL SYSTEMS, LLC	,	3,939.16	29-SEP-15	3,939.16	Reconciled
361844	24-SEP-15	VIRTUAL POLYMER COMPOUNDS		11,398.25	01-OCT-15	11,398.25	Reconciled
361845	24-SEP-15	WALTERS WHOLESALE ELECTRIC		31.21	29-SEP-15	31,21	Reconciled
361846	24-SEP-15			2,840.00	28-SEP-15	2,840.00	Reconciled
361847	24-SEP-15	WAXIE'S		738.56	29-SEP-15	738.56	Reconciled
361848	24-SEP-15	ENTERPRISES, INC WECK LABORATORIES		6,775.00	30-SEP-15	6,775.00	Reconciled
361849	24-SEP-15	INC WEST ENVIRONMENTAL SERVICES &		1,102.50			Negotiable
361850	24-SEP-15	TECHNOLOGY, INC. WESTAMERICA COMMUNICATIONS,		20,438.63	30-SEP-15	20,438.63	Reconciled
361851	24-SEP-15	EXTERMINATOR		1,309.00			Negotiable
		COMPANY			01 00m 15	10 510 50	Danasilad
361852		WOOD RODGERS, INC.	•	18,512.50			Reconciled
361853		WU, MINCHUAN		22.73	29-SEP-15		
361854	24-SEP-15	XIE, YUEZENG		13.99	08-OCT-15	13.99	Reconciled
361855	24-SEP-15	YIP, ROBIN YSI, INC		24.02	28-SEP-15	24.02 28,612.61	Reconciled
361856				28,612.61	01-OCT-15	28,612.61	Reconciled
361857	24-SEP-15	ZEBRON CONTRACTING	3	44,100.00	02-OCT-15	44,100.00	Reconciled
						7,608,004.31	
		ment Subtotal:		7,676,716.91		7,000,004.31	
Payment Docume	ent : IRWD Wire						
11150	08-SEP-15	YORK INSURANCE SERVICES GROUP INC - CA		7,214.66			Negotiable
11151	08-SEP-15	CALPERS	SACRAMENTO	378,328.91			Negotiable
		0114+ /		Payment Curre	ency: USD (US Dollar)	
raymene	1,100. 1111			,	Cleared	Page: 2	
Payment Number	Sequence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Number	Sequence Num Date	Supplier Name	Site	Payment Amount	Cleared Date		
Payment Number	Sequence Num Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Number	Sequence Num Date	Supplier Name YORK INSURANCE SERVICES GROUP IN	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Number Payment Docum	Sequence Num Date ent : IRWD Wire 10-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN-	Site PAY C	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Number Payment Docume	Sequence Num Date ent : IRWD Wire 10-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP INC CA YORK INSURANCE SERVICES GROUP INC CA EMPLOYEE BENEFIT	Site PAY C PAY C	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Number Payment Document 11152	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15	YORK INSURANCE SERVICES GROUP IN CA YORK INSURANCE SERVICES GROUP IN CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE	PAY C PAY	Payment Amount 4,119.82 12,195.30	Cleared Date	Cleared Amount	Status Negotiable Negotiable
Payment Number Payment Docume 11152 11153	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15	YORK INSURANCE SERVICES GROUP INC - CA YORK INSURANCE SERVICES GROUP INC - CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX	PAY C PAY	Payment Amount 4,119.82 12,195.30 11,709.35	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP INC CA YORK INSURANCE SERVICES GROUP INC CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT	PAY C PAY FRESNO	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT DEPARTMENT ORDONEZ, CYNTHIA	PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN CA YORK INSURANCE SERVICES GROUP IN CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT	PAY C PAY C PAY FRESNO SACRAMENTO W SACRAMENTO	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT	PAY C PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159	Sequence Num Date ent : IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEFARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SECIALIST, INC	PAY C PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159	Sequence Num Date 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN CA YORK INSURANCE SERVICES GROUP IN CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EPHOYMENT DEVELOPMENT DEVELOPMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC	PAY C PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159	Sequence Num Date ent: IRWD Wire 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL	PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159 11160 11161	Sequence Num Date 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL MARKETS INC. BANK OF NEW YORK MELLON TRUST	PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER NEW YORK	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26 10,646.23 95,426.61	Cleared Date	Cleared Amount	Status Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159 11160 11161 11162	Sequence Num Date 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL MARKETS INC. BANK OF NEW YORK MELLON TRUST COMPANY NA SUMITOMO MITSUI BANKING	PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER NEW YORK	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26 10,646.23 95,426.61 365,128.83	Cleared Date	Cleared Amount	Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159 11160 11161 11162 11163	Sequence Num Date 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15 18-SEP-15	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL MARKETS INC. BANK OF NEW YORK MELLON TRUST COMPANY NA SUMITOMO MITSUI BANKING U.S. BANK NATIONA	PAY PAY PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER NEW YORK NEWARK	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26 10,646.23 95,426.61 365,128.83 3,615.07	Cleared Date	Cleared Amount	Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159 11160 11161 11162 11163 11164	Sequence Num Date 10-SEP-15 15-SEP-15 17-SEP-15 18-SEP-15 18-SEP-15	Supplier Name YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEVELOPMENT DEVELOPMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SECIALIST, INC GREAT-MEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL MARKETS INC. BANK OF NEW YORK MELLON TRUST COMPANY NA SUMITOMO MITSUI BANKING CORPORATION	PAY PAY PAY PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER NEW YORK NEW YORK NEW YORK LPAY SAN	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26 10,646.23 95,426.61 365,128.83 3,615.07	Cleared Date	Cleared Amount	Status Negotiable
Payment Number Payment Docume 11152 11153 11154 11155 11156 11157 11158 11159 11160 11161 11162 11163 11164 11165	Sequence Num Date	YORK INSURANCE SERVICES GROUP IN- CA YORK INSURANCE SERVICES GROUP IN- CA EMPLOYEE BENEFIT SPECIALIST, INC INTERNAL REVENUE SERVICE FRANCHISE TAX BOARD EMPLOYMENT DEPARTMENT ORDONEZ, CYNTHIA MARIE CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES EMPLOYEE BENEFIT SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY CITIGROUP GLOBAL MARKETS INC. BANK OF NEW YORK MELLON TRUST COMPANY NA SUMITOMO MITSUI BANKING CORPORATION U.S. BANK NATIONA ASSOCIATION	PAY C PAY C PAY FRESNO SACRAMENTO W SACRAMENTO DESERT HOT SPR SACRAMENTO PAY DENVER NEW YORK NEW YORK NEW YORK	Payment Amount 4,119.82 12,195.30 11,709.35 170,371.92 46,357.19 9,683.68 500.17 2,074.26 10,646.23 95,426.61 365,128.83 3,615.07 120.60 573.19	Cleared Date	Cleared Amount	Status Negotiable Negotiable

		BANKING CORPORATION					
11168	18-SEP-15	U.S. BANK NATIONAL ASSOCIATION	LPAY	293.86			Negotiable
11169	18-SEP-15	MERRILL LYNCH CAPITAL SERVICES,	CHARLOTTE	824,865.01			Negotiable
IRWD Ledger BANK: Bank of America N.A. Bank Account Currency: Payment Type: All		h : Los Angeles		r 01-SEP-15 To Account: Check: Payment Curr lay Supplier Add	ing AP and PR ency: USD (US		-OCT-2015 10:52
Payment Number Sequence Num	Date	Supplier Name	Site	Payment Amount		Cleared Amount	Status
Payment Document : IRWD Wi							
11170	18-SEP-15	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	824,864.27			Negotiable
11171 11172	18-SEP-15 18-SEP-15	CALPERS INTERNAL REVENUE	SACRAMENTO FRESNO	85,958.67 171,246.02			Negotiable Negotiable
11173	10-SEP-15	SERVICE FRANCHISE TAX BOARD	SACRAMENTO	46,816.17			Negotiable
11174	18-SEP-15	EMPLOYMENT DEVELOPMENT	W SACRAMENTO	9,512.98			Negotiable
11175	18-SEP-15	DEPARTMENT ORDONEZ, CYNTHIA MARIE	DESERT HOT	500.17			Negotiable
11176	18-SEP-15	CALIFORNIA DEPARTMENT OF CHILD SUPPORT	SACRAMENTO	2,074.26			Negotiable
11177	18-SEP-15	SERVICES EMPLOYEE BENEFIT	PAY	10,951.42			Negotiable
11178	18-SEP-15	SPECIALIST, INC GREAT-WEST LIFE & ANNUITY INSURANCE		95,418.28			Negotiable
11179	18-SEP-15	COMPANY BANK OF NEW YORK MELLON TRUST	NEWARK	125.00			Negotiable
11180	18-SEP-15	COMPANY NA U.S. BANK NATIONA	LST. LOUIS	8,859.48			Negotiable
11181	22-SEP-15	ASSOCIATION YORK INSURANCE SERVICES GROUP IN - CA	PAY C	7,604.53			Negotiable
11182 11183	22-SEP-15 23-SEP-15	GILLESPIE, DONNA PCL CONSTRUCTION,	ACCT	22.23 4,367,142.90			Negotiable Negotiable
11184	23-SEP-15	INC. PCL CONSTRUCTION, INC.	6971821722 ESR 141511.1	485,238.10			Negotiable
11185 11186	23-SEP-15 23-SEP-15		SACRAMENTO	85,958.67 23,020.83			Negotiable Negotiable
11187	23-SEP-15	COMPANY NA BANK OF NEW YORK MELLON TRUST	NEWARK	1,940,200.00			Negotiable
11100	29-SEP-15	COMPANY NA YORK INSURANCE SERVICES GROUP IN	PAY	7,781.95			Negotiable
IRWD Ledger BANK: Bank of America N.A. Bank Account Currency: Payment Type: All		h : Los Angeles		or 01-SEP-15 To Account: Check Payment Curr blay Supplier Add	ing AP and PR ency: USD (US		-OCT-2015 10:52 29
Payment Number Sequence Num		Supplier Name	Site	Payment Amount		Cleared Amount	Status
Payment Document : IRWD Wi							
11189	30-SEP-15	BANK OF NEW YORK MELLON TRUST	NEWARK	112.50			Negotiable
11190	30-SEP-15	COMPANY NA BANK OF NEW YORK MELLON TRUST COMPANY NA		3,524.31			Negotiable
Р	ayment Docu	ument Subtotal:		10,121,176.48	***		
	Bank Acco	ount Subtotal :		17,797,893.39		7,608,004.31	
Report Count : 714			17,797,893.3	7,608,			
			Total Di	sbursement	S		

*** End of Report ***

IRWD Ledger

Report Date: 12-OCT-2015 10:52 Void Payment Register Page: To: 30-SEP-15 Date: Void Date

Period From: 01-SEP-15

Include Zero Amount Payments: Yes Display Payee Address: No

Branch: Los Angeles

Account: Checking AP and PR

Bank: Bank of America N.A. Bank Account Currency: USD

Payment Currency: USD (US Dollar)

Payment Numb	er Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment	Document: II	RWD CHECK			18.35.65.000000000000000000000000000000000	
358434	15-MAY-1	5 CHEM TECH INTERNATIONAL INC	FULLERTON		13,516.80	02-SEP-15
358889	04-JUN-15	5 ASTRONICS TEST SYSTEMS INC	PAY		115.81	29-SEP-15
358996	04-JUN-1	5 PRIDEMARK CONTRACTORS INC	PAY		529.16	29-SEP-15
359027	04-JUN-1	5 SONG, ZHIYIN	PAY		14.95	29-SEP-15
359139	11-JUN-15	5 GOKA, RAHUL	PAY		26,78	29-SEP-15
359846	30-JUN-15	5 WALTERS WHOLESALE ELECTRIC	LONG BEACH		118.01	29-SEP-15
361362	00-SEP-15	5 LEE, HYUN J	PAY		140.29	08-SEP-15
361507	11-SEP-1	5 LEE, HYUN J	PAY		140.29	14-SEP-15

				Payment Document Subtota	14,602.09	

Bank Account Subtotal

14,602.09

Report Total Report Count: 0

Total Voids

*** End of Report ***

\$ 17,797,893.39 Disbursements

<14,602.09> Voids

\$ 17,783,291.30 Total Disbursement and Voids

Exhibit "E"

IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received. 01-SEP-15 to 30-SEP-15

NAME	CHECK NO.	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Blaska, Erika	361513	17-Sep-15	520.05	Other(Misc)	Meeting supplies for Drought Survival Exposition
Borowski, Michael	361187	3-Sep-15	183.58	Other(Misc)	Safety shoes allowance
Kalinsky, Arseny	361365	10-Sep-15	115.00	Membership/Certification	Board of Professional Engineers membership renewal
Kalinsky, Arseny	361365	10-Sep-15	272.00	Membership/Certification	WEF membership renewal
LaMar, Steven	361678	24-Sep-15	224.27	Lodging	Urban Water Institute Annual Conf., San Diego, CA - Aug. 26-28, 2015
LaMar, Steven	361678	24-Sep-15	132.48	Lodging	Urban Water Institute Annual Conf., San Diego, CA - Aug. 26-28, 2015
Murphy, Alexander	361512	17-Sep-15	645.00	Other(Misc)	Basketball League fee
Reinhart, Douglas	361674	24-Sep-15	224.27	Lodging	Urban Water Institute Annual Conf., San Diego, CA - Aug. 26-28, 2015
Reinhart, Douglas	361674	24-Sep-15	224.27	Lodging	Urban Water Institute Annual Conf., San Diego, CA - Aug. 26-28, 2015
Shanafelt, Shane	361677	24-Sep-15	105.29	Other(Misc)	Wireless case reimbursement
Shanafelt, Shane	361677	24-Sep-15	170.00	Membership/Certification	CWEA membership renewal fee
Soto, Frank	361675	24-Sep-15	106.40	Other(Misc)	Safety shoes allowance
Trementozzi, Cody	361185	3-Sep-15	156.60	Other(Misc)	Safety shoes allowance

October 26, 2015

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton

Approved by: Paul Cook Con.

CONSENT CALENDAR

PLANNING AREA 51 HERITAGE FIELDS CAPITAL FACILITIES

SUMMARY:

Heritage Fields El Toro, LLC (Heritage Fields) is proceeding with development of District 4 within Planning Area (PA) 51 (Great Park), which includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. Staff recommends that the Board:

- Authorize budget increases for Project 31213 in the amount of \$33,000, from \$383,900 to \$416,900; Project 30503 in the amount of \$30,800, from \$240,900 to \$271,700; and Project 11804 in the amount of \$67,100, from \$176,000 to \$243,100;
- Authorize the addition of the Cultivate Street Sewer Improvements, Project 21286, to the FY 2015-16 Capital Budget in the amount of \$ 220,000; and
- Authorize the General Manager to approve Expenditure Authorizations with adjustments to splits within Improvement Districts (IDs) for Projects 31213, 30503, 11804, and 31804.

BACKGROUND:

Heritage Fields is moving forward with the District 4 development within PA 51. District 4 is bound by Irvine Boulevard to the north, Cadence to the south, Bosque to the west and Chinon Street to the east. The project location map is shown as Exhibit "A". As part of this development, Heritage Fields will design and construct IRWD's domestic water, sewer, and recycled water capital improvements. The required IRWD capital facilities are documented in the PA 51 Sub-Area Master Plan Update, as prepared by RBF Consulting in September 2011.

The design and construction of the IRWD facilities will be performed under the terms of the Master Reimbursement Agreement and Supplemental Reimbursement Agreement between Heritage Fields and IRWD approved by the Board in August 2012 and August 2015, respectively.

Cadence and Chinon Domestic and Recycled Water Improvements:

The Cadence and Chinon Domestic Water and Recycled Water Improvements consist of installing approximately 6,000 feet of 12-inch diameter recycled water pipeline, 1,300 feet of 16-inch diameter domestic water pipeline, and 1,300 feet of 16-inch diameter recycled water pipeline within Cadence and Chinon between Bosque and Irvine Boulevard. Heritage Fields retained Hunsaker to prepare the Cadence and Chinon Domestic and Recycled Water Improvements plans and it received bids from five contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, FYDAQ, for a bid amount of \$692,182 as shown in Exhibit "B". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying, and construction support services. Staff has

Consent Calendar: Planning Area 51 Heritage Fields Capital Facilities

October 26, 2015

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reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. Proposals for field archeological and paleontological monitoring were not necessary because those costs were included as a part of the previously-approved sanitary sewer improvements. A summary of the Cadence and Chinon Domestic and Recycled Water Improvement costs is shown below.

Design (Hunsaker)	\$103,850.00
Design Change Order No. 1 (Hunsaker)	\$ 4,400.00
Construction (FYDAQ)	\$692,182.00
Construction Change Order No. 1(FYDAQ)	\$<78,924.00>
Geotechnical Services (Engeo)	\$ 18,300.00
Construction Engineering/Surveying (Hunsaker)	\$ 59,400.00
Heritage Fields Administration Fee (1%)	\$ 6,132.00
	\$805,340.00

Cultivate Street Sewer Improvements:

Improvements to Cultivate Street consist of installing approximately 420 feet of 16-inch diameter sanitary sewer in Cultivate Street from Bosque to 500 feet east of Bosque. Heritage Fields retained Hunsaker to prepare the Cultivate Street Sewer Improvements plans and it received bids from three contractors. Heritage Fields recommends awarding the construction contract to the lowest bidder, FYDAQ, for a bid amount of \$104,155 as shown in Exhibit "C". In addition, Heritage Fields has received consultant proposals for geotechnical observation and testing, surveying and construction support services. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. Proposals for field archeological and paleontological monitoring were not necessary because those costs were included as a part of the previously-approved sanitary sewer improvements. A summary of the Cultivate Street Sewer Improvement costs is shown below.

Design (Hunsaker)	\$ 15,900.00
Construction (FYDAQ)	\$104,155.00
Geotechnical Services (Engeo)	\$ 10,900.00
Construction Engineering/Surveying (Hunsaker)	\$ 16,692.00
Heritage Fields Administration Fee (1%)	\$ 1,041.55
	\$148,688.55

FISCAL IMPACTS:

Projects 31213 (5536), 30503 (5758), 11804 (5756) and 31804 (5757) are included in the FY 2015-16 Capital Budget. Staff requests the addition of the Cultivate Street Sewer Improvements, Project 21286, to the FY 2015-16 Capital Budget in the amount of \$220,000, and Expenditure Authorization approval for Project 21286 (6331) will be requested at the General Manager approval level. Expenditure Authorization approval for Projects 31213 (5536), 30503 (5758), 11804 (5756) and 31804 (5757) require Board approval because of adjustments to splits within IDs. In an effort to better manage budgets, staff is adjusting the ID splits within PA 51 to more accurately reflect the actual ID cost responsibilities. The revised ID splits are shown in Expenditure Authorizations that are attached as Exhibit "D".

Consent Calendar: Planning Area 51 Heritage Fields Capital Facilities

October 26, 2015

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Project No.	Current Budget	Addition <reduction></reduction>	Total Budget
31213 (5536)	\$ 383,900	\$ 33,000	\$ 416,900
30503 (5758)	\$ 240,900	\$ 30,800	\$ 271,700
11804 (5756)	\$ 176,000	\$ 67,100	\$ 243,100
31804 (5757)	\$ 240,900	\$ -0-	\$ 240,900
21286 (6331)	\$ -0-	\$ 220,000	\$ 220,000
Total	\$1,041,700	\$ 350,900	\$1,392,600

ENVIRONMENTAL COMPLIANCE:

Construction of capital domestic water, sewer, and recycled water facilities for the Great Park Development is subject to CEQA. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 an Environmental Impact Report was certified by the City of Irvine, the lead agency on April 4, 2012 (SCH# 2002101020).

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE FOR PROJECT 31213 (5536) IN THE AMOUNT OF \$33,000, FROM \$383,900 TO \$416,900, PROJECT 30503 (5758) IN THE AMOUNT OF \$30,800, FROM \$240,900 TO \$271,700, AND PROJECT 11804 (5756) IN THE AMOUNT OF \$67,100, FROM \$176,000 TO \$243,100; AUTHORIZE THE ADDITION OF THE CULTIVATE STREET SEWER IMPROVEMENTS PROJECT 21286 (6331) TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$220,000; AND AUTHORIZE THE GENERAL MANAGER TO APPROVE EXPENDITURE AUTHORIZATIONS FOR PROJECTS 31213 (5536), 30503 (5758), 11804 (5756) AND 31804 (5757).

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" - Bid Summary, Cadence and Chinon Domestic and Recycled Water Improvements

Exhibit "C" – Bid Summary, Cultivate Street Sewer Improvements

Exhibit "D" – Expenditure Authorizations

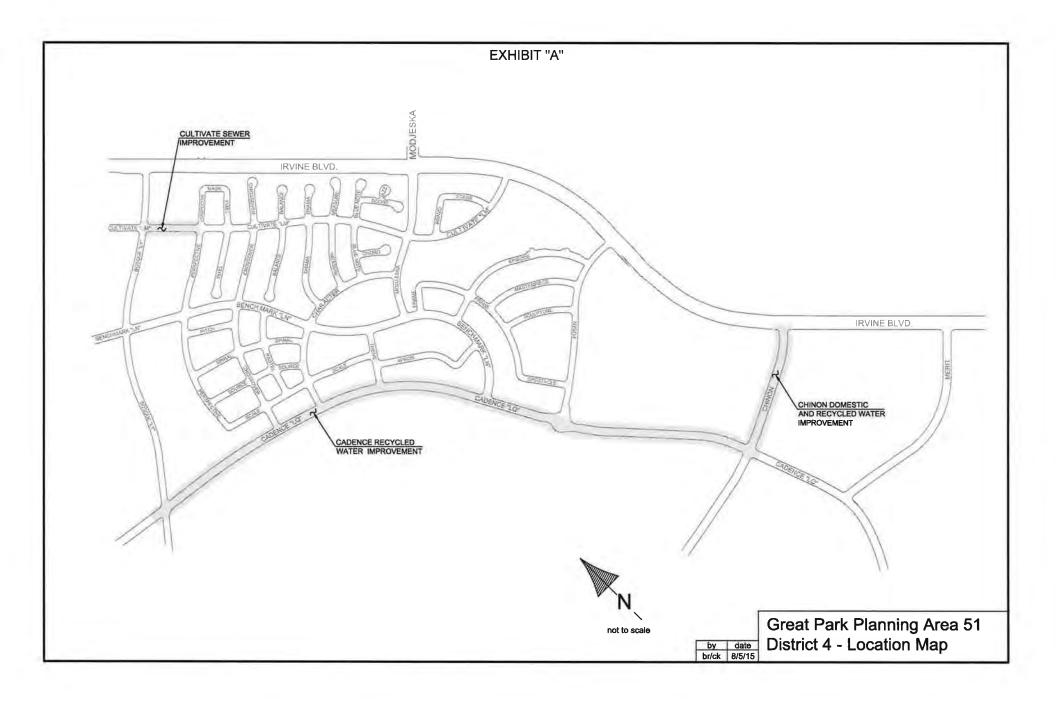


EXHIBIT "B"

Bid Tabulations



Owner: Heritage Fields El Toro, LLC

Project: IRWD CODE 6196 CAPITAL and NON-CAPITAL Improvements Cadence from Bosque to Pusan 12" Recycled Water

Bid Date:6/23/2015

				Engineer E	stimate	FYDAQ Attn: Steve Beyer Tel: 714-447-9760		L&S Construction Attn: Elton Welhern Tel: 714-528-3232		Attn: David Chorak Tel: 949-380-8363		Leatherwood Construction Attn: Bobby Kaiwai Tel: 714-593-6575		KEC Engli Attn: James Tel: 951-73	P. Elfring
ITEM NO		UNIT	QUAN	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1.	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	7,000.00	7,000.00	500.00	500.00	1,700,00	1,700.00	6.500.00	6.500.00	7,200,00	7,200,00	5,000,00	5 000 0
2	Furnish and Install Traffic Control, Complete	1.5	1	500.00	500.00	0.00	0.00	250.00	250.00	1,000,00	1,000,00	100.00	100.00	7,000,00	7,000.0
3	Performance, Labor and Payment Bond, Complete	LS	1	2,000,00	2.000.00	3,800,00	3,800,00	4.700.00	4.700.00	6,700.00	6,700.00	6,000.00	5,000.00	4,000,00	4,000.0
4	Furnish and Install 12" PVC Purple Pipe, C-905, DR 18, wirrenoning and bedding per IRVVD Std. W-17 and all fittings, appurtenances and thrust blocks per IRVVD Std. W-16 and W-19 and as shown on the blans, Complete	LF	4 266	65.00	277 290 00	42.00	179 172 00	49.00	209.034.00	55 00	234.630.00	60.00	255.960.00	78.00	332 748 0
5	Furnish and install 10" PVC Purple Pipe, C-900, DR 14, witrenching and bedding per IRWD Std. W-17 and all filtings, appurers and thrust blocks per IRWD Std. W-16 and W-19 and as shown on the parts. Complete.	UF	85	65 00	5.525.00	46.00	3,910.00	41.00	3,485,00	50.63	4.303.55	60.00	5.100.00	84.00	7 140 00
6	Furnish and Install 20" Steel Casing with 60 lb. Anodes at Each End per IRWD Std. W-21, including Irenching, bedding. Complete	LF	91	150.00	13,650.00	130.00	11,830.00	200.00	16.200.00	147 00	13.377.00	120 00	10.920.00	550 00	50.050.0
T	Furnish and Initial 12' Butterfly Valve, Cl 150, figd, including valve box per IRWD Std. W-22, Complete	EA	5	4,200.00	21,000,00	5,000.00	29,000.00	3,075,00	15 375 00	3.565.00	17.825.00	4,000,00	20,000,00	7,200.00	36,000.0
	Furnish and Install 10" Butterfly Valve, Ct 150, figd, including valve box per IRWD Std. W-22, Complete	EA	1	3,500,00	3 300 00	3.400.00	3,400,00	2.770.00	2,770,00	3,000,00	3,000,00	3,550.00	3,550,00	6,900,00	6,900.0
9	Furnish and Install 4" Blow-off Assembly, Case 3 per IRWD Std. W-14, including Gate Valves, Manhole w Frame & Cover Zinc Anodes, all Appurtenances, Complets	EA	2	5,600 00	11 200 00	6.500.00	13,000,00	9,900,00	19,600.00	5.493.00	10,986.00	11 750 00	23.500.00	12.000.00	24 000 0
10	Furnish and Install 2" Air Vac Assembly, Case 3 including Gate Valve, Air Vent Cover, Concrete Pad, Adjustment, all Appurtenances, per IRWD Std. W-11, Complete	EA	5	5,800,00	17,400.00	3.800.00	11,400.00	3,870.00	11,610.00	4.052.00	12,156.00	5.400 00	16,200 00	6 000 00	18 000 0
11.	Remove & Dispose of Temporary Flush-out Assembly and join existing 12" PVC Recycled Water Line, Complete.	EA	1	1,500.00	1.500.00	1 500 00	1.500.00	4 300 00	4 300 00	4.014.00	4.014.00	3.100.00	3.100.00	2.300.00	2,300.0
12	Furnish and Install Temporary Flush-out Assembly per IRWD Std. W-12, including Gate Valves, Markers. Warning Tape, all Appurtenances. Complete	EA	3	2.500.00	7.500.00	1.500.00	4 500 00	2 350 00	7 050 00	2 102 00	6.306.00	1.700.00	5.100.00	9 200 00	27 600 0
13	Raise Valve Can to Interim Grade, Complete	EA	16	500,00	8,000,00	500.00	0.000.00	380.00	6.080.00	600.00	9,600,00	350.00	5 500 00	1,000.00	16,000.00
14.	Raise Valve Can to Final Grade, Complete	EA	16	500.00	8.000.00	500.00	8,000.00	380.00	6.080.00	630.00	9 500 00	350.00	5,600,00	1,000,00	15,000.00
tE.	Pressure test pipeline. Complete	LS	1	7,000,00	7,000.00	3 600 00	3,600,00	4.150.00	4.150.00	1 987 00	1.987.00	3,150.00	3,150,00	23,000,00	23,000.00
	SUB-TOTAL, IRWD CODE 6186 RECYCLED WATER CAPITAL IMPROVEMENTS.				\$390,865.00		\$277,612.00		\$314,584.00		\$341,984.55	317467001	\$371,080.00		1575,738,00

Project: IRWD CODE 6240 CAPITAL and NON-CAPITAL (CFD) Improvements Cadence from Pusan to Chinon 12" & 16" Recycled Water Bid Date:6/23/2015

				ÇIIQIINGELE	зинас	Attn: Steve Beyer Tel: 714-447-9760		Attn: Elton Welhem Tel: 714-528-3232		Attn: Bobby Kawai Tel: 714-593-6576		Attn: David Chorak Tel: 949-380-8363		Attn: James Tel: 951-7	s P. Elfring
				τ.	1										
TEM NO.	LIRWD CODE \$240 RECYCLED WATER CAPITAL IMPROVEMENTS - CADENCE FROM PUSAN TO	UNIT	QUAN	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
L	Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	3,500.00	3,500.00	500.00	500.00	1,700.00	1,700.00	3,400.00	3,400.00	3,200.00	3,200.00	5 000 00	5,000 0
2	Furnish and Install Traffic Control, Complete	15	1	500.00	500.00	0.00	0.00	660.00	660.00	100.00	100.00	920.00	920 00	7,000,00	7,000 0
	Performance, Labor and Payment Bond, Complete	LS	1 = 1	1,000,00	1,000.00	2,014,00	2,014.00	2,400,00	2,400.00	2,500,00	2,500,00	3.350.00	3,350,00	2 200 00	2 200 0
4	Furnish and Install 16" PVC Purple Pipe, C-905, DR 18, witrenching and bedding per IRWD Std. W-17	LF	132	F5.00	11,220.00	75 00	9,900 00	93 00	12 276 00	110.00	14,520,00	78.00	10,296.00	119.00	15,708.00
5	Furnish and Install 12" PVC Purple Pipe, C-905, DR 18, withenching and bedding per IRWD Std. W-17	LF	1.642	65.00	106,730,00	42.00	68,964.00	46.00	78.515.00	55.00	90.310.00	56.00	91 952 00	82 00	134 644.0
6	Furnish and Install 16' Sutterfly Valve, Ct. 150, figd. including valve box per IRWD Std. W-22. Complete	EA.	2	6.000.00	12,000,00	6 000 00	12 000 00	7.940.00	15 680 00	5.350.00	10,700.00	6,940.00	13,880 00	10,500,00	21,000.0
7.	Furnish and Install 12' Butterty Valve, CI. 150, figd. including valve box per IRVAD Std. W-22, Complete	EA	4	4,200,00	16,800.00	5,000,00	70,000,00	3,075,00	12 300 00	4,100.00	15.400.00	3.562.00	14,248 00	7,000.00	26,000 0
8	Furnish and Install 4" Blow-off Assembly, Case 3 per IRVID Std. VI-14, including Gate Valves, Manhole W.	EA	4	5,600.00	5,600,00	5,500,00	5.500 00	9,900 00	9 900 00	12,100,00	12,100,00	5.431.00	5,431.00	13,000,00	13,000.0
9	Furnish and Install 2' Air Vac Assembly, Case 3 including Gate Valve. Air Vent Cover, Concrete Pad.	EA	- 1	5,800.00	5,800.00	3,751,00	3,751.00	3,870.00	3,870,00	4,500,00	4.500.00	4,100,00	4,100,00	9,000.00	9.000.0
10	Remove & Dispose of Temporary Flush-out Assembly and join existing 12" PVC Recycled Water Line.	ĒĀ	1	1,500.00	1,500,00	1,500,00	1,500,00	4 300 00	4 300 00	3,000 00	3,000.00	3,765.00	3,765.00	2,500,00	2,500.00
11.	Furnish and install Temporary Flush-out Assembly per IRWD Std. W-12, including Gate Valves, Markers,	EA	2	2,500.00	5.000.00	1.500.00	3,000,00	2,460.00	6,920,00	2.450.00	4,900,00	2,200,00	4,400,00	9,800,00	19,600,0
12	Raise Valve Can to Inferim Grade, Complete	EA	25	500.00	5 500 00	500.00	5,500,00	380.00	4 180 00	350.00	3,650,00	600.00	6,500,00	1,000,00	11,000.0
13	Raise Valve Can to Final Grade. Complete	EA	11	500.00	5.500.00	500.00	5,500.00	380.00	4.150.00	350 00	3,850,00	600.00	6,600,00	1,000,00	11,000.0
14	Pressure test pipeline, Complete	LS		4,000.00	4.000,00	3 600 00	3 600 00	3 500 00	3.500.00	2,500,00	2.500.00	2.200,00	2,200,00	10,000.00	10,000.0
	SUB-TOTAL, IRWD CODE 8240 RECYCLED WATER CAPITAL IMPROVEMENTS			llannalezenzen eta kilologiak	\$184,650.00		\$141,B29.00		\$160,882.00		\$172,630.00		\$170,942.00		\$289,652.0



Project: IRWD CODE 6245 CAPITAL AND NON-CAPITAL (CFD) IMPROVEMENTS CHINON (B) FROM CADENCE TO IRVINE BLVD.
16" RECYCLED WATER & 12", 10" AND 8" DOMESTIC WATER
Bid Date: 6/23/2015

				r <u>Estimate</u>	Attn: Steve Tel: 714-4-	9 Bayer	L&S Cons Attn: Ellon Tel: 714-5	Welham	Kennedy Pipelis Attn: Davi Tel: 949-	id Chorak	Leatherwood Attn: Bob Tel: 714-	by Kawai	Attn; Jan	gineering nes Elfring -734-3010
I. IRWO GODE \$34\$ RECYCLED WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM TIEM (GAGENCE NO. TO IRWINE BLVD.	UNIT	QUAN	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1 [Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete	LS	1	3,000.00	3,000,00	500 00	500.00	1.700.00	1 700 00	3.550.00	3.550.00	3,500.00	3,500.00	5.000.00	5,000
2 Furnish and Install Traffic Control, Complete	LS	1	2,000.00		2,500,00	2,500.00	3,500,00	3,500.00	1 500 00	1 500 00	1,000,00	1,000.00		13,500
3 [Performance, Labor and Payment Bond, Complete	LS	1	1,000.00		1 849 00	1 849 00	3,140,00	3,140.00	3 600 00	-	3,000,00	3,000.00	13/10/10/	2,100
4. Furnish and Install 16" PVC Purple Pipe, C-905, DR 18, w/trenching and bedding per IRWD Std. W-17	LF	1.235	85.00		59.00	72.865.00	65.00	80.275.00	89.00	109.915.00	87 00	107 445 0		113.620
5 Furnish and Install 16" Ductile Iron Pipe, Cl. 350, FEXFE w/trenching and bedding per IRWD Std. W-17	LF	5	200.00		200.00	1,000,00	1,100.00	6,500,00	276 00	1.380.00		6,000,00		2,550
6 Furnish and Install 16" Butterfly Valve, Ct_150, flgd, including valve box per IRWD Std W-22, Complete	EA	2	5,000,00		6,000 00	12 000 00	8,200.00	12,400,00	7,000.00	14,000.00	5,300.00	10.600.00		
7 Furnish and Install 16" Ductile Iron Cut-in Tee figd per IRWD Std. W-16 and W-19 and as shown on the	EA	1	4,600.00	-	10,000,00	10,000,00	8,800.00	8,800.00			The Control of the Co			20,000
B Furnish and Install 2" Air Vac Assembly, Case 3 including Gate Valve, Air Vent Cover, Concrete Pad,	EA	1	5,800.00		4.155.00	4 155 00	3,870,00	3.870.00	4,985.00			15,300.00 5,100.00		5,500
g Remove & Dispose of Temporary Flush-out Assembly and join existing 12" PVC Recycled Water Line,	EA	1	1,500.00		1.500.00	1,500.00	4 300 00							8,500
10. Demo, Remove, Haul-off and Replace Existing Pavement per City of Irvine Std. 223. At. A and as shown		490				-	-	4,300.00	4.430 00			3 350 00		2,30
11 Sawcut Existing AC Pavement, Complete	LF	166	25.00		20.00	9,600,00	15,00	7,200.00	30.00			9,120.00		
12 Furnish and Install Slurry Backfill per IRWD specification on 16" PVC Pipe, Complete	LF	80	50.00		10 00	1.560.00	7.00	1.162 00	5 00		10.00	1,550.00		
13 Cold Plane 10' and AC Cap Trench Repair, Complete	LS	00			50.00	4,000.00	100.00	8,000.00	70.00			6,150.00		
14 Raise Valve Can to Interim Grade, Complete			2,000,00		2 000 00	2 000 00	3,500 00	3,500 00	3,010.00	3,010.00		3,900.00		6,500
15 Raise Valve Can to Final Grade, Complete	EA	3	500.00		500.00	1.500.00	360.00	1,140,00	500.00	-		1,050.00		3,00
16 Presoure test pipeline. Complete	LS	2	4,000.00		3,600.00	1,500,00	3,500,00	3,500,00	3,575.00	1,800.00	350.00 2.500.00	2 500 0		3,00
SUB-TOTAL, IRWD CODE 6245 RECYCLED WATER CAPITAL IMPROVEMENTS		H11414		\$161,705.00 r Estimate	FYDA Attn: Steve		L&S Cons		Kennetty Pipelin		Leatherwood		KEC En	gineering
SUB-TOTAL, IRWD CODE 6245 RECYCLED WATER CAPITAL IMPROVEMENTS		OCCUPATION OF THE PERSON OF TH			FYDA Attn: Steve Tel: 714-4-	AQ Beyer	L&S Cons Attn: Elton Tel: 714-5	struction Welham	Kennethy Pipelir Attn: Devi Tel: 949-	ne Construction of Chorak		Construction by Kawai	KEC En	
ITEM III. IRWO CODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM	UNIT MEAS	QUAN	Enginee		Attn: Steve Tel: 714-4	AQ Beyer	Attn: Elton	struction Welham	Attn: Davi	ne Construction of Chorak	Leatherwood Attn: Bob	Construction by Kawai	KEC En	gineering nes Elfring
ITEM III. IRWO CODE 6248 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM	UNIT	I se	Enginee	r Estimate AMOUNT	Attn: Steve Tel: 714-44	AQ 9 Beyer 47-9760	Attn: Elton Tel: 714-5	struction Welham (28-3232	Attn: Davi Tel: 949-3	d Chorak 380-8363	Leatherwood Altn: Bob Tel: 714-5	Construction by Kawai 593-6575	KEC En Attn: Jan Tel: 951	gineering nes Elfring -734-3010 AMOUNT
ITEM IIII. IRWO CODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM NO. CADENCE TO BYVINE BLVD.	UNIT	QUAN	Enginee t PRICE	AMOUNT 3.000.00	Attn: Steve Tel: 714-4-	AQ B Beyer 47-9760 AMOUNT	Attn: Eiton Tel: 714-5 PRICE	AMOUNT	Attn: Devi Tel: 949-3 PRICE	d Chorak 380-8363 AMOUNT	Leatherwood Attn: Bob. Tel: 714-3 PRICE	Construction by Kawai 593-6575 AMOUNT 3,700 CK	KEC En Attn: Jan Tel: 951 PRICE 5 000 00	gineering nes Elfring -734-3010 AMOUNT 5 00
ITEM III. IRWO GODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [B] FROM NO. CADENCE TO BRVINE BLVD. 22 (Mobilization, Exables Construction Water (Not to Exceed 2% of Bid), Complete	UNIT MEAS LS	QUAN 1	t PRICE 3,000.00	AMOUNT 3.000.00	Attn: Steve Tel: 714-4- 1 PRICE	AQ 9 Beyer 97-9760 AMOUNT 500.00	Attn: Elton Tel: 714-5 PRICE 1,700.00	AMOUNT	Attn: Davi Tel: 949-0 PRICE 1,300,00	e Construction of Chorak 380-8363 AMOUNT 2 300 00	Leatherwood	Construction by Kawai 593-6575 AMOUNT 3,700 EK	KEC En Attn: Jan Tel: 951 PRICE 5 000 00	gineering nes Elfring -734-3010 AMOUNT 5 00 13,50
ITEM IIII. IRWO CODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO REVINE BLVD. 23 [Fundamental Traffic Control, Complete 23] Fundamental Install Traffic Control, Complete	UNIT MEAS LS LS	QUAN 1	t PRICE 3,000.00	AMOUNT 3.000.00 2.000.00 1.000.00	Attn: Steve Tel: 714-44 1 PRICE 500-00 2-500-00	AQ B Beyer 87-9760 AMOUNT 550.00 2,500.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00	AMOUNT 1,700.00	Attn: Devi Tel: 949-3 PRICE	AMOUNT 2 300 00 1 500 00 2 370 00	Leatherwood	Construction by Kawai 593-6575 AMOUNT 3,700 fx 1,500 fx 3,000 fx	KEC En Attn: Jar. Tel: 951 PRICE 5 5 000 00 11 500 00 2 100 00	gineering nes Elfring -734-3010 AMOUNT 5 00 13,50 2 10
ITEM III. IRWO GODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO BRUNE BLVD. 22 (Mobilization, Extablish Construction Water (Not to Exceed 2% of Bid), Complete 23 (Furnish and Install Traffic Control, Complete 24) Performance, Labor and Payment Bond, Complete	UNIT MEAS LS LS LS	QUAN 1 1	t PRICE 3,000.00 2,000.00 1,000.00	AMOUNT 3.000.00 2.000.00 1.000.00 83.655.00	Attn: Steve Tel: 714-4-1 1 PRICE 500.00 2.500.00 2,024.00	AQ 9 Beyer 47-9760 AMOUNT 500.00 2.500.00 2.024.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00	AMOUNT 1,700.00 3,500.00 3,140.00	Attn: Davi Tel: 949-3 PRICE 1,300,00 1,500,00	AMOUNT 2.300.00 1.500.00 2.370.00 35,229.00	Leatherwood	Construction by Kawai 593-6575 AMOUNT 3,700 00 1,500 00 102,960 00	MEC En Alth: Jar. Tel: 951 PRICE 5 000 00 13 500 00 2 100 00 82 00	aineering nes Elfring -734-3010 AMOUNT 5 00 13,50 2 10
ITEM III. IRWO GODE 8244 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM CADENCE TO BRVINE BLVD. 22 (Mobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete 23 Furnish and Install 17 ITallic Control, Complete 24 Performance, Labor and Payment Board, Complete 25 Furnish and Install 12" PVC Pipe, C-900, DR 14, w/benching and bedding per IRWO Sid W-17 and all	UNIT MEAS LS LS LS LS	QUAN 1 1 1 1 1,287	# PRICE 3,000.00 22,000.00 1,000.00 65.00	AMOUNT 3.000.00 2.000.00 1.000.00 83.655.00 25.200.00	Attn: Steve Tel: 714-4-1 1 PRICE 500.00 2,500.00 2,024.00 43.00	AQ 9 Beyer 97-9760 AMOUNT 500.00 2.500.00 2.024.00 55.341.00	Attn: Elton Tel: 714-5 PRICE 1,760.00 3,500.00 3,140.00 50.00	AMOUNT 1,700.00 3,500.00 64,350.00	Attn: Devi Tel: 949-3 PRICE 1300 00 1,500 00 3,370 00	AMOUNT 2.300.00 1.500.00 2.370.00 35,229.00	Leatherwood	Construction by Kawai 593-6575 AMOUNT 3,700 fx 1,500 fx 3,000 fx	MEC En Attn: Jan Tel: 951 PRICE 5 000 00 13,500 00 2 100 00 22,00 00 00 21,000 00 00 00 00 00 00 00 00 00 00 00 00	gineering nes Elfring -734-3010 AMOUNT 5 00 13,50 2 10 105,53 126,00
ITEM IIII. IRWO CODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO BYVINE BLVD. 22 (Mobilization, Exabilish Construction Water (Not to Exceed 2% of Bid), Complete 23 [Furnish and Install Traff Control, Complete 24 [Prictmance, Labor and Payment Bond, Congrete, 25 [Furnish and Install Tr2" PVC Pipe, C-900, DR 14, w/branching and bedding per IRWO Sid. W-17 and all per I	UNIT MEAS LS LS LS LS LS LS LS	QUAN 1 1 1 1 1,287	PRICE 3,000.00 2,000.00 1,000.00 65.00 4,200.00	AMOUNT 3.000.00 2.000.00 1.000.00 83.655.00 25.200.00 3.000.00	Attn: Steve Tel: 714-4-1 1 PRICE 500.00 2.500.00 2.024.00 43.00 5.000.00	AQ 9 Beyer 97-9760 AMOUNT 500.00 2.500.00 2.024.00 55.341.00 30.000.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50,00 17,000.00	AMOUNT 1,702.00 3,500.00 13,450.00 17,000.00 1	Attn: Devi Tel: 949-3 PRICE 1300 00 1,500 00 3,370 00 67,00 3,600 00	E Construction of Chorak 880-8363 AMOUNT 1,500,00 1,500,00 21,600,00 21,600,00 18,500,00	Leatherwood Attn: Bob Tol: 714-: PRICE 3,700.00 1,500.00 3,600.00 3,650.00 20,300.00	Construction by Kawai 593-6575 AMOUNT 3,700.00 1,500.00 3,000.00 20,900.00 20,900.00	KEC En Aftr: Jer: 951 PRICE 5 000 00 13 500 00 2 100 00 2 2 100 00 2 1,000 00 1 1,500 00	AMOUNT 5 00 13,50 2 10 105,50 11,50
ITEM III. IRWO GODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO IRVINE BLVD. 22 Mobilization, Exabisin Construction Water (Not to Exceed 2% of Bid), Complete 23 Furnish and Install Traffic Control. Complete 24 Pertormance, Labor and Payment Bond, Complete 25 Furnish and Install 12 PVC Pipe, C-900, DR 14, witrenbing and bedding per IRWO Sid W-17 and all 26 Furnish and Install 12 Butterfly Valve, Ct. 150, figd, including valve box per IRWO Sid W-22, Complete 27 Furnish and Install 35*3/5*1.2* CALLACES Cut-in Tee, figd per detail 1 on plan sheet 5 in IRWO.	UNIT MEAS LS LS LS LS LS EA EA EA	0UAN 1 1 1 1,287 6	# PRICE 3,000.00 2,000.00 1,000.00 65.00 4,200.00 3,000.00 3,000.00 9.00 9.00 9.00 9.00 9.00 9.00 9.	AMOUNT 3,000.00 2,000.00 1,000.00 83,655.00 25,200.00 3,000.00 5,500.00	Attn: Steve Tel: 714-4-1 PRICE 500 00 2.500 00 2.024.00 43.00 5.000 00 20.000.00	AQ 9 Beyer 47-9760 AMOUNT 500.00 2,500.00 2,004.00 55.341.00 30.000.00 20.000.00 3,987.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 3,075.00 17,000.00 3,870.00	AMOUNT 1,700,00 3,500,00 64,350,00 17,000,00 3,870,00 3,870,00	Attn: Devi Tel: 949-3 PRICE 1 300 00 1 500 00 3 370 00 3 500 00 16 500 00 3 3110 00	AMOUNT 2 300 00 2 370 00 21 500 00 2 1500 00 3 110 500 00 3 110 500 00	Leatherwood	Construction by Kawai 993-6575 AMOUNT 3,700 00 1,500.00 3,000 00 21,500.00 22,500.00 4,500.00 4,500.00	KEC En Aftr: Jar Tel: 951 PRICE 9 5 000 00 9 2 100 00 9 2 100 00 9 21,000 00 0 11,500 00 0 11,500 00	AMOUNT 5.00 11,50 11,50 6.50
ITEM III. IKWO CODE 6746 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM CADENCE TO BRVINE BLVD. 23 Formish and Install 17 Taffic Control, Complete 24 Perthimance, Labor and Payment Bend, Complete 25 Furnish and Install 17 TVC Pipe, C-900, DR 14, whrenching and bedding per IRWO Sid W-17 and all 28 Furnish and Install 17 TVC Pipe, C-900, DR 14, whrenching and bedding per IRWO Sid W-17 and all 28 Furnish and Install 17 Eduterity Valve, Cl. 150, fled, including valve box per IRWO Sid W-22, Complete 7 Furnish and Install 37 A/30-12 CMLACSP Cut-in Tex. fled per detail 1 on plan sheet 6 6 IRWO 29 Furnish and Install 27 A/1 Vac Assembly, Case 3 including Gale Valve, Air Vert Cover, Concrete Pad,	UNIT MEAS LS LS LS LS LS EA EA EA	QUAN 1 1 1 1,287 6 1	Engines 1 PRICE 3.000.00 2.000.00 1.000.00 65.00 4.200.00 3.000.00 5.000.00	AMOUNT 3,000.00 2,000.00 1,000.00 83,650.00 25,500.00 5,600.00 2,500.00 2,500.00	Attn: Steve Tel: 714-4-1 1 PRICE 500 00 2 500 00 2 024 00 43 00 5 000 00 20 000 00	AQ b Bayer 47-9760 AMOUNT 500.00 2.500.00 2.024.00 55.341.00 30,600.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50,00 17,000.00	AMOUNT 1,700,00 3,140,00 18,450,00 17,000,00 3,870,00 2,350,00 2,350,00 2,350,00 2,350,00 2,350,00 2,350,00 2,350,00 2,350,00 2,350,00	Attn: Davi Tel: 949-3 PRICE 1 300 00 1 500 00 3 500 00 16 500 00 3 110 00 2 431 00	AMOUNT 2.300.00 1.500.00 2.370.00 2.1600.00 2.1600.00 2.1400.00 2.1400.00 2.1400.00 2.1400.00 2.1400.00	Leatherwood Aftr: Bob. Tel: 714-1 PRICE 3,700,00 1,500,00 3,000,00 3,550,00 20,300,00 1,500,00 1,500,00 1,500,00 1,500,00 1,500,00	Construction by Kawai 593-6575 AMOUNT 3,700.00 1,500.00 3,000.00 102,960.00 21,900.00 4,500.00 1,550.00	KEC En Atts: Jan. 1919.	gineering nes Elfring 734-3010 AMOUNT 5.00 13,500 2.10 195,53 126,000 11,500 8.500 9.50
ITEM III. IRWO CODE 6248 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM NO. CADENCE TO RIVINE BLVD. 20 (Nobilization, Extabilish Construction Water (Not to Exceed 2% of Bid), Complete 32 Furnish and Install Traffic Control, Complete 23 Furnish and Install Traffic Control, Complete 26 Furnish and Install Traffic Control, Complete 27 Furnish and Install Traffic Traffic Valve, C. 1156, flug Including valve box per IRWD Sid W-17 and all logs. Furnish and Install Traffic Valve, C. 1156, flug Including Valve of the plan sheet 5 & IRWD. 28 Furnish and Install Traffic Valve, C. 150, Case 3 including Cate Valve, Air Vert Cover, Concrete Pad. 39 Furnish and Install Traffic Valve of Valve, Valve, Valve, Valve, Valve, Valver, Concrete Pad.	UNIT MEAS LS LS LS LS EA EA EA	QUAN 1 1 1 1,287 6 1 1	# PRICE 3,000.00 2,000.00 1,000.00 4,200.00 4,200.00 5,000.00 2,200.00 2,200.00 2,200.00	AMOUNT 3,000,00 2,000,00 1,000,00 83,655,00 25,200,00 3,000,00 5,600,00 4,000,00 4,000,00	Affin: Steve Tel: 714-4- 1 PRICE 500.00 2.500.00 2.024.00 43.00 5.500.00 3.967.00 1.500.00	AQ B Beyer 47-9760 AMOUNT \$500.00 2,530.00 2,024.00 55.341.00 30,000.00 30,000.00 1,587.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 17,000.00 3,870.00 2,350.00 3,870.00	AMOUNT 1,760,500 3,500,000 64,350,000 15,450,000 3,140,000 63,000,000 17,000,000 3,000,000 3,000,000 3,000,000 3,000,000	Attn: Devi 7al: 949-3 PRICE 1:00 00 1,500 00 3,370 00 67,00 3,500 00 16,500 00 3,110 00 2,431,00 800 00	E Construction of Chorak 880-8363 AMOUNT 2.500.00 1.500.00 2.570.00 21.600.00 3.110.00 3.110.00 4.800.00 4.800.00	Leatherwood Aftir Bob Tol: 714-: PRICE 3,700,00 1,500,00 3,000,00 3,000,00 20,300,00 4,600,00 1,500,00 1,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00 3,500,00	Construction by Kawai 993-6575 AMOUNT 3,700 00 1,500.00 3,000 00 21,500.00 22,500.00 4,500.00 4,500.00	KEC En Attr: Jer: 951 PRICE 9 5 000 00 1 15 000 00 2 100 00 9 82 00 0 11 500 00 0 15 000 00 0 15 000 00 0 5 00	gineering nes Elfring -734-3010 AMOUNT 5 00 13,500 2 10 105,53 126,000 11,500 8,500 9,500
ITEM ISL IRWO CODE \$246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (6) FROM NO. CADENCE TO REVINE BLVD. 22 Nobilization, Extablish Construction Water (Not to Exceed 2% of Bid), Complete 23 Furnish and Install Traffic Control, Complete 24 Performence, Labor and Payment Bond, Complete 25 Furnish and Install 12 PVC Pipe, C-900, DR 14, withreshing and bedding per IRWD Sid W-17 and all 26 Furnish and Install 12 Euterfly Valve, Ct. 150, (6d, including valve box per IRWD Sid W-22, Complete 27 Furnish and Install 2 Sid Valve Assembly, Case 3 including Gale Valve, Air Verti Cover, Concrete Pad, 28 Furnish and Install 2 Air Valve Assembly, Case 3 including Gale Valve, Air Verti Cover, Concrete Pad, 29 Furnish and Install Temporary Flush-out Assembly per IRWO Sid. W-12, including Gate Valves, Manners. 30 Raise Valve Can to Interno Grade, Complete	UNIT MEAS LS LS LS LS LS EA EA EA EA	QUAN 1 1 1 1,287 6 1 1	Engines 1 PRICE 3,000.00 2,000.00 1,000.00 65.00 4,200.00 5,000.00 5,000.00 5,000.00 5,000.00 5,000.00	AMOUNT 3,000.00 2,000.00 1,000.00 3,000.00 28,200.00 3,000.00 5,000.00 2,500.00 4,000.00 4,000.00	Affin: Steve Tel: 714-4- 1 PRICE 500 00- 2,024 00- 43 00- 5,000 00- 20,000 00- 3,967 00- 1,500 0	AQ B Beyer 47-9760 AMOUNT 500,00 2:500,00 2:500,00 3:50,00,00 3:000,00 3:687.00 1:500.00 4:900.00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,140.00 5,000 3,075.00 17,000.00 3,877.00 2,350.00 3,877.00 3,877.00	AMOUNT 1,700,00 3,500,00 1,450,00 15,450,00 17,000,00 3,370,00 2,350,00 3,370,00 2,350,00 3,040,00	Attn: Devi 7el: 949-3 PRICE 1.300 00 1.500 00 67.00 3.570 00 67.00 3.600 00 16.500.00 3.110 00 2.431.90 500.00	E Construction of Chorak 380-8363 AMOUNT 2.300.00 1.500.00 2.370.00 21.600.00 3.110.00 2.431.00 4.800.00 4800	Leatherwood Aftr: Bob. Tel: 714-1 PRICE 3,700:00 1,500:00 3,000:00 3,000:00 4,000:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00 1,500:00	Construction by Kawai 593-6575 AMOUNT 3,700 of 1,500 of 102,960 of 20,900 of 4,500 of 1,550 of 2,800 of 1,550 of 2,800 of 2,800 of 2,800 of 2,800 of 2,800 of	KEC En Attn. Jar. 1917 PRICE 0. 5.000.00 0. 13.500.00 0. 21.000.00 0. 21.000.00 0. 11.500.00 0. 6.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00 0. 9.500.00	gineering nes Elfring 734-3010 AMOUNT 5.00 13,500 2.10 195,53 126,000 11,500 8.500 9.50
ITEM III. IRWO GODE 6348 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO RIVINE BLVD. 22 (Mobilization, Extablish Construction Water (Not to Exceed 2% of Bid), Complete 23 [Furnish and Install Traffic Control, Complete 24 [Performance, Labor and Payment Bond, Complete 25 [Furnish and Install 12 PVC Pipe, C-900, DR 14, witeroching and bedding per IRWD Sid W-17 and all 26 [Furnish and Install 12 Extractly Valve, CI 150, find, Including valve box per IRWD Sid W-22, Complete 27 [Furnish and Install 25 CAP Vac Assembly, Case 3 including Gale Valve, Air Verit Cover, Concrete Pad, 28 [Furnish and Install 25 CAP Vac Assembly, Case 3 including Gale Valve, Air Verit Cover, Concrete Pad, 30 [Raise Valve Can to Interno Grade, Complete] 20 [Demo, Remove, Issu-of and Replace Costing Paverment per City of Irvine Sid 223, Alt A and as shown	UNIT MEAS LS LS LS LS LS EA EA EA EA	0HAN 1 1 1 1 1 1,287 6 1 1 1 5 5 5	# PRICE 3,000.00 (2,000.00 (1,000.00	AMOUNT 3,000.00 2,000.00 1,000.00 83,655.00 3,000.00 5,000.00 5,000.00 4,000.00 4,000.00	Affin: Steve Tel: 714-4: 1 PRICE 500.00 2.500.00 2.024.00 43.00 5.00.00 70.000.00 3.967.00 1.500.00 5.00.00	AQ S Beyer 47-9780 AMOUNT 500.00 2.5500.00 2.004.00 30.600.00 30.600.00 1.500.00 1.500.00 3.687.00 1.500.00 3.687.00 3.600.00 3.	Attn: Eltan Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 3,075.00 17,000.00 2,350.00 2,350.00 3,870.00 2,350.00 3,870.00	AMOUNT 1,700,00 3,500,00 1,450,00 15,450,00 17,000,00 3,370,00 2,350,00 3,370,00 2,350,00 3,040,00	Attn: Devi 7et: 949-3 PRICE 1300 00 1,500 00 3,370 00 67,00 3,600 00 16,500 00 3,110 00 2,431.50 200 00	AMOUNT 2.300 00 1.500 00 2.370 00 3.100 00 3.110 00 2.431 00 3.4800 00	Leatherwood Attr: Bob Tot: 714-1 PRICE 3,700,00 1,500,00 3,000,00 3,000,00 20,000,00 4,500,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00 1,550,00	Construction by Kawai 593-6575 AMOUNT 3,700.00 1,500.00 3,000.00 102,960.00 20,300.00 4,600.00 1,550.00 2,500.00 2,500.00 2,500.00 2,500.00	KEC En Attn: Jar. 7el: 951 PRICE 0 5 000 00 0 2 100 00 0 22 100 00 0 11,500 00 0 11,500 00 0 1,500 00 0 9 500 00 0 1,000 00	ginsering nes Elfring -734-3010 AMOUNT 5 00 15,500 2 10 105,500 1150 0 5,500 8,500 8,000
ITEM ISL IRWO CODE \$246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON [6] FROM NO. CADENCE TO EXVINE BLVD. 22 Nobilization, Extablish Construction Water (Not to Exceed 2% of Bid), Complete 23 Furnish and Install Traffic Control, Complete 24 Performence, Labor and Payment Bonst, Complete 25 Furnish and Install T2 PVC Pipe, C-900, DR 14, withouting valve box per IRWD Sid W-17 and all 26 Furnish and Install T2 Evt Pipe, C-900, DR 14, withouting valve box per IRWD Sid W-17 and all 27 Furnish and Install T2 Evt Pipe, C-900, DR 14, withouting valve box per IRWD Sid W-17 and all 28 Furnish and Install T2 Evt Pipe, C-900, DR 14, withouting valve box per IRWD Sid W-17 and all 29 Furnish and Install T2 Fir Van Assembly, Case 3 including Gale Valve, Air Verit Cover, Concrete Pad, 29 Furnish and Install Temporary Flush-out Assembly per IRWO Sid W-12, including Gale Valves, Manwera, 30 Raise Valve Can to Internet Grade, Complete 10 Raise Valve Can to Frail Grade, Complete 11 Cempo, Remove, Haul-off and Replace Existing Pavement per City of Irvine Sid 223, Ait A and as shown 12 Sewood Existing AD Pavement, Complete 13 Sewood Existing AD Pavement, Complete	UNIT MEAS LS LS LS LS LS EA EA EA EA	QUAN 1 1 1 1 1 1,287 6 1 1 1 8 8 8 420	# PRICE 3,000.00 (2,000.00 (1,000.00	AMOUNT 3,000.00 2,000.00 1,000.00 83,655.00 283,000.00 1,5600.00 2,500.00 4,000.00 1	Affin: Steve Tel: 714-4- 3 PRICE 500.00 2.0024 00 43.00 5.000.00 3.667.00 1.500.00 500.00 500.00 500.00 500.00	AQ B Beyer 47-9760 AMOUNT 500,000 2,500,000 2,500,000 30,000,000 20,000,000 20,000,000 1,500,000 1,	Attn: Elton Tel: 714-5 PRICE 1,760.00 3,500.00 3,140.00 50,00 3,075.00 17,000.00 3,870.00 3,870.00 3,800.00 3,800.00 3,800.00	AMOUNT 1,700,000 3,500,000 17,000,000 3,140,000 3,140,000 3,140,000 3,000,000 3,000,000 3,000,000 3,000,000	Aftn: Devit 7et: 949-3 PRICE 3.306.00 1,500.00 1,500.00 3,370.00 3,500.00 16,500.00 3,110.00 2,431.00 2,431.00 2,431.00 2,431.00 3,000.00	AMOUNT 2.500.00 1.500.00 3.370.00 2.1600.00 3.110.00 2.431.00 4.800.00 4.800.00 770	Leatherwood Aftr: Bob Tel: 714-: PRICE 3,700,00 1,500,00 3,000,00 3,000,00 4,600,00 1,560,00 1,560,00 30,00,00 30,00 30,00 30,00 30,00 30,00 30,00	Construction by Kawai 939-6575 AMOUNT 3,700.00 1,500.00 3,000.00 102,960.00 21,900.00 4,500.00 1,590.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00 2,500.00	KEC En Attn: Jar. Tel: 951 PRICE 5 000 00 0 1 15 500 00 0 2 100 00 0 2 100 00 0 0 115 500 00 0 115 500 00 0 115 500 00 0 115 500 00 0 10	ginsering nes Elfring -734-3010 AMOUNT 5.00 115.50 2.10 105.53 125.00 11.59 8.500 8.000 22580
ITEM III. IRWO CODE 6248 DOMESTIC WATER CAPITAL LIMPROVEMENTS - CHINON (B) FROM NO. CADENCE TO SKYNE BLVD. 26 (Nobilization, Extablish Construction Water (Not to Exceed 2% of Bid), Complete 27 [Furnish and Install Taffe Control, Complete 28 [Furnish and Install Taffe Control, Complete 29 [Furnish and Install Taffe Control, Complete 20 [Furnish and Install Taffe Control, Valve, CITSO, Edd, Including valve box per IRWD Sid W-17 and all 20 [Furnish and Install 32 Furnish Valve, CITSO, Edd, Including valve box per IRWD Sid W-22, Complete 20 [Furnish and Install 35 ASSW-152 CMLBCSP Clark-IT Ext. Rigd per detail 1 on plan sheet 5 & IRWD 21 [Furnish and Install Temporary Flush-out Assembly, Case 3 including Gale Valve, Air Verit Cover, Concrete Ped. 22 [Oemo, Remove, Haul-off and Replace Existing Pavement per City of Irvine Sid 223, Alt A and as shown 3 [Savout Existing AC Pavement, Complete] 3 [Savout Existing AC Pavement, Complete] 4 [Furnish and Install Sturry Bacedill per IRWD specification on 12" PVC Pipe, Complete	LS LS LS LS EA EA EA EA EA EA EA EA	OUAN 1 1 1,287 6 1 1 8 8 420 146	## Engines 1 PRICE 3,000.00 2,000.00 1,000.00 650.00 3,000.00 5,800.00 5,800.00 500.00 550.00 550.00 550.00 550.00	AMOUNT 3,000.00 2,000.00 1,000.00 83,655.00 25,200.00 3,000.00 3,000.00 4,000.00 4,000.00 4,000.00 10500 730 3300	Affin: Steve Tel: 714-44: 1 PRICE 500 00. 2 500 00. 2 500 00. 3 500 00. 5 500 00. 5 500 00. 1 500 00. 1 500 00. 5 500 00. 1 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00. 5 500 00.	AGQ 8 Beyer 47-9780 AMOUNT 500.00 2:590.00 2:590.00 3:55.341.00 3:55.341.00 3:560.00 3:567.0	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 5,000 17,000.00 3,870.00 12,950.00 3,870.00 12,950.00 3,970.00 13,00	AMOUNT 1,760,90, 3,500,00 13,460,00 17,000,00 3,000,00 17,000,00 3,000,00 17,000,00 3,000,00 18,450,00 17,000,00 3,000,0	Aftr: David Tai: 949-3 PRICE 1 100 00 1 500 00 3 370 00 67 50 3 600 00 1 650 00 2 431 00 2 00 00 1 500 00 1 500 00 1 500 00 1 500 00 1 500 00	AMOUNT 2.500.00 1.500.00 3.370.00 2.1600.00 3.110.00 2.431.00 4.800.00 4.800.00 770	Leatherwood Aftr: Bob Tol: 714-1 PRICE 3,700.00 3,000.00 3,000.00 3,000.00 20,300.00 4,500.00 1,560.00 350,00 350,00 350,00	Construction by Kavai \$93-6575 AMOUNT 3.700.05 1.500.05 3.000.05 20.500.00 20.500.00 20.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00 2.500.00	KEC En Attn: Jar. 7el: 951 PRICE 1 5 000 000 1 13,500 00 2 100 00 2 100 00 2 100 00 1 1,500 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00	sineering nes Elfring -734-3010 AMOUNT 5.00 13,500 2,10 195,53 125,00 11,50 8,500 8,000 23550 3,796
TEM III. IRWO CODE 2349 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM NO. CADENCE TO SKYNE BLVD. 22 (Nobilization, Establish Construction Water (Not to Exceed 2% of Bid), Complete 23 [Furmish and Install Tarlic Control. Complete 25 [Furmish and Install Tarlic Control. Complete 26 [Furmish and Install 12 FUC Pipe, C-900, DR 14, witrenching and bedding per IRWD Sid W-17 and all 128 [Furmish and Install 25 Furmish Yavlev, CI-156, Figd, Including valve box per IRWD Sid W-22, Complete 27 [Furnish and Install 27 Air Vao Assembly, Case 3 including Gate Valve, Air Vert Cover, Concrete Pad, 28 [Furnish and Install 27 Air Vao Assembly, Case 3 including Gate Valve, Air Vert Cover, Concrete Pad, 29 [Furnish and Install 27 Empcary Flush-out Assembly per IRWD Sid. W-12, Including Gate Valves, Manners, 30 [Raise Valve Can to Install Gate, Complete 20 [Comp, Remove, Hau-off and Replace Existing Pavement per City of Irvine Sid. 223, Alf. A and as shown 3 Serect Enisting AC Pavement, Complete 5 Furnish and Install Sturry Sacrifit per IRWD specification on 12" PVC Pipe, Complete 5 Furnish and Install Sturry Sacrifit per IRWD specification on 12" PVC Pipe, Complete	LS LS LS LS EA	OUAN 1 1 1,287 6 1 1 8 8 420 146	# PRICE 3,000.00 2,000.00 1,00	AMOUNT 3,000.00 2,000.00 1,000.00 83,000.00 25,200.00 3,000.00 4,0	Affir: Steve Tel: 714-4: 1 PRICE 500.00 2.500.00 2.002.00 3.000 3.000 3.000 1.500.00 1.500.00 3.000 3	AQQ 8 Beyer 47-9780 AMOUNT 500.00 2:500.00 2:500.00 2:500.00 3:500.00 2:0.000.00 3:507.00 1:500.00 4:000.00 3:507.00 1:500.00 1:	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 1,700.00 1,700.00 1,700.00 1,870.00 1,	AMOUNT 1,700,00 3,500,00 3,140,00 64,350,00 17,000,00 3,300,00 2,350,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00	Aftn: Davi 7et: 949-3 PRICE 1300.00 1,500.00 3,370.00 57.00 3,500.00 16,500.00 3,110.00 2,431.00 800.00 800.00	AMOUNT 2.300.00 3.300.00 3.300.00 3.370.00 3.370.00 3.310.00 3.310.00 3.410.00 3.410.00 4.800.00 4.800.00 4.800.00	Leatherwood Aftir Bob Tol: 714-1 PRICE 3,700,00 1,500,00 3,000,00 3,000,00 4,000,00 1,550,00 20,300,00 4,000,00 3,500,0	Construction by Kavai 593-6575 AMOUNT 3,700.00 1,500.00 3,000.00 20,500.00 21,500.00 20,500.00 4,500.00 1,550.00 2,800.00 2,800.00 2,800.00 2,800.00 1,850.00 1,850.00 1,850.00 1,850.00 1,850.00 1,850.00 1,850.00 1,850.00	KEC En Attn: Jar. 7el: 951 PRICE 1 5 000 000 1 13,500 00 2 100 00 2 100 00 2 100 00 1 1,500 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00 1 1,000 00	AMOUNT 5 00 13,500 125,500 8 500 8 500 3796
ITEM III. IRWO GODE 6246 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (6) FROM NO. CADENCE TO RIVINE BLVD. 22. Nobilization, Exsabisin Construction Water (Not to Exceed 2% of Bid), Complete 23. Furnish and Install Traffic Control. Complete 24. Performance, Labor and Payment Bond, Complete 25. Furnish and Install 12 PVC Pipe, C-900, DR 14, witrenching and bedding per IRWD Sid W-17 and all 26. Furnish and Install 12 PVC Pipe, C-900, DR 14, witrenching valve box per IRWD Sid W-22, Complete 27. Furnish and Install 27 PVC Pipe, C-900, DR 164, Indianing valve box per IRWD Sid W-22, Complete 28. Furnish and Install 36 x36 x12 * CMLSCSP Clui-in Tee, figd per detail 1 on plan sheet 6 & IRWD 29. Furnish and Install 7 Air Vac Assembly, Case 3 including Gate Valve, Air Vert Cover, Concrete Pad, 30. Cases Valve Can to Interim Grade, Complete 20. Demo, Remove, Hau-Joff and Replace Existing Pavement per City of Irvine Sid 223, Alt. A and as shown 31. Sawout Existing AD Pavement, Comparise 42. Furnish and Install Stary Backfüll per IRWD specification on 12" PVC Pipe, Complete 33. Gate Valve Can Install Stary Backfüll per IRWD specification on 12" PVC Pipe, Complete 34. Gold Page 10" and AC Day Transin Repairs. Complete 35. Gold Page 10" and AC Day Transin Repairs. Complete	UNIT MEAS LS LS LS LS LS EA	OUAN 1 1 1,287 6 1 1 8 8 420 146	# PRICE 3,000.00 2,000.00 55.00 4,200.00 5,000.00	AMOUNT 3,000.00 2,000.00 1,000.00 63,655.00 3,000.00 5,600.00 2,500.00 4,000.00 4,000.00 105500 730 3500 4000 4000 4000 4000 4000 4000 40	Affir: Steve Tel: 714-4: 1 PRICE 500.00 2.500.00 2.002.00 3.000 3.000 3.000 1.500.00 1.500.00 3.000 3	AQ Beyer 97-9760 AMOUNT \$50,000 2,500,000 2,500,000 30,000,000 30,000,000 30,000,000 30,000,00	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 1,700.00 1,700.00 1,700.00 1,870.00 1,	AMOUNT 1,700,00 3,500,00 11,700,00 3,140,00 64,350,00 17,000,00 3,040,00 3,	Aftr: David Tel: 949-1 PRICE 1300 00 1,500 00 3,370 00 16,500 00 1	MOUNT 3 500 00 1 500 00 3 700 2 1 800 00 3 1 800 3 1 1 800 4 800 00 4 800 00 4 800 00 4 800 00 5 730 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00 6 800 00	Leatherwood Afm: Bob Tel: 714-: PRICE 3,700,00 1,500,00 3,000,00 3,000,00 4,500,00 1,550,00 1,550,00 20,300,00 350,00 1,550,00 1,550,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00	Construction by Kawai 593-6575 AMOUNT 3,700 0X 1,500 0X 3,000 0X 20,900 0X 21,500 0X	KEC En Attn: Jar. Tel: 951 PRICE 5 000 000 1 13,500 00 2 1000 000 2 1000 000 1 1,500 000 5 11,000 000 1 1,000 000 1 1,000 000 1 1000 000 1	AMOUNT S 000 15,500 2100 115,534 126,000 11,500 6,000 23560 3798 138440 5500
ITEM ISL IRWO GODE \$249 DOMESTIC WATER CAPITAL IMPROVEMENTS - CHINON (B) FROM NO. CADENCE TO IRVINE BLVD. 22 Nobilization. Establish Construction Water (Not to Exceed 2% of Bid), Complete 23 Furnish and Install Traffic Control. Complete 24 Performance, Labor and Payment Bond, Complete 25 Furnish and Install 12 PVC Pipe, C-900, DR 14, witeroching and bedding per IRWD Sid W-17 and all 26 Furnish and Install 12 PVC Pipe, C-900, DR 14, witeroching and bedding per IRWD Sid W-22, Complete 27 Furnish and Install 12 PVC Pipe, C-900, DR 14, witeroching and bedding per IRWD Sid W-22, Complete 28 Furnish and Install 12 PVC Pipe, C-900, DR 14, witeroching of per detail 1 sh plan sheet 6 5 IRWD 29 Furnish and Install 12 PVC PALLACEP Cut-n Tee, figd per detail 1 sh plan sheet 6 5 IRWD 29 Furnish and Install 12 Air Vac Assembly, Case 3 including Gate Valve, Air Vert Cover, Concrete Pad, 30 Raise Valve Can to Interim Grade, Complete 10 Demo, Romove, Haud-off and Replace Costing Pavement per City of Irvine Sid 223, Alt. A and as shown 11 Sewout Existing AD Pavement, Complete 12 Demo, Romove, Haud-off and Replace Costing Pavement per City of Irvine Sid 223, Alt. A and as shown 13 Sewout Existing AD Pavement, Complete 14 Furnish and Install Surry Backfüll per IRWD specification on 12" PVC Pipe, Complete	UNIT MEAS LS LS LS LS LS EA	OUAN 1 1 1,287 6 1 1 8 8 420 146	# PRICE 3,000.00 2,000.00 55.00 4,200.00 5,000.00	AMOUNT 3,000.00 2,000.00 1,000.00 83,000.00 25,200.00 3,000.00 4,0	Affir: Steve Tel: 714-4: 1 PRICE 500.00 2.500.00 2.002.00 3.000 3.000 3.000 1.500.00 1.500.00 3.000 3	AQQ 8 Beyer 47-9780 AMOUNT 500.00 2:500.00 2:500.00 2:500.00 3:500.00 2:0.000.00 3:507.00 1:500.00 4:000.00 3:507.00 1:500.00 1:	Attn: Elton Tel: 714-5 PRICE 1,700.00 3,500.00 3,140.00 50.00 1,700.00 1,700.00 1,700.00 1,870.00 1,	AMOUNT 1,700,00 3,500,00 3,140,00 64,350,00 17,000,00 3,300,00 2,350,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00 3,370,00	Aftr: David Tel: 949-1 PRICE 1300 00 1,500 00 3,370 00 16,500 00 1	AMOUNT 2.500.00 1.500.00 2.500.00 2.500.00 2.1600.00 3.110.00 2.431.00 4.800.00 4.800.00 4.800.00 3.300.00 3.300.00	Leatherwood Afm: Bob Tel: 714-: PRICE 3,700,00 1,500,00 3,000,00 3,000,00 4,500,00 1,550,00 1,550,00 20,300,00 350,00 1,550,00 1,550,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00 350,00	Construction by Kavai 939-6575 AMOUNT 3,700,00 1,500,00 3,000,00 102,960,00 20,300,00 4,500,00 1,950,	KEC En Attn: Jar. 7el: 951 PRICE 1 5 000 000 000 000 000 000 000 000 000	ainsering nes Elfring -734-9010 AMOUNT -5 000 -13,500 -2 100 -105,534 -126,000 -1,500 -5,500 -6,500 -6,500 -7,766 -7,776

EXHIBIT "C"



Bid Tabulations

Owner: Heritage Fields El Toro, LLC

Project: Upper Bee & Bosque 1A Grading, Undercrossing, Storm Drain and Sanitary Sewer Improvements - CAPITAL Bid Date: 6/5/2015



			Engineer	Engineer Estimate		Engineer Estimate FYDAQ Attn: Steve Beyer Tel: 714-441-9760		L&S Construction Altin William Larkin Tel: 714-528-3232		KEC Engineering Altin James P Ellining Tel:951-734-3010				Low Bidder Compared to Average Unit Price		Law Bidder Compared to Average Unit Price Less +/- 30% Outliers	
			1								2	3	11-3		11-	51	
M 1 CULTIVATE (LM) - SANITARY SEWER (CAP) - IRWD CODE 6429	UNIT	DUAN	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	TAUCHA	PRICE	AMOUNT	Contractors Average Unit	Average Unit Price - Less +/- 30% Cuthers	(minus = lower i higher		(minus = lower high		
Modeumer, Establish Construmen Water (Not to Exceed 2% of Bul); Complete	1,5	1	5 000 00	5,000,00	900 00	500 00	5,700,00	3.700.00	2700 00	2,700.00	1 725.00	#DV/O	/1.225 00)	100	#DW/S	#DWGF	
to PVC (Green) CSUS DR to with indicator Tape, begoing & eacidin per City of invine Standard S-6, 2 Complete	LE	400	120.00	49 080 00	70.00	28.630.00	239.00	97 751 00	197.00	80.573.00	126.50		/56 50	-	#OW/o	BCKV(0)	
Standard 72" Diameter Sewer Manhole, Average D=24 5" with Modified Base on Sheet 4 of 4 & per City of Irvine Standard S-1 Including 1 Raise. Complete	EA	3	18.000.00	54,000,00	15 462 00	46 386 00	16 500 00	49 500 00	25 400 00	76 200 00	14 340 50		1 121 50	7.82%	31.443.00	196 75	
27" Steet County with IO LB. Accous per City of Invite Staincard S.7, Including, Wood Pipe Swar, Strape, 4. Complete.	LF.	100	125.00	11,250,00	200.00	18 000 00	300.00	27.000.00	536.00	49.240.00	299 00		(39.00)	22.79%	450.00	18000	
5. ST Ferminal Clean Out per City of Hime Standard 5-5, including 1 Raise, Complete	EL	1	1,500,00	1,500,00	5160.00	\$ 160.00	1 500 00	1 500 00	5.200.00	5 200 00	2 965 00	#DIVO	2,195.00	74000	#CIV/O	*D(V(0)	
Remove Existing interiening Sewer Une & Connect to Existing, U=24 1" Deep including Excavation, Removal: Disposel Complete	EA		2 500 00	2,500,00	1500.00	1 500 00	3,500,00	2,500,00	1 500 00	1 800 00	1 650 00	1.550.00	(15000)	9.09%	3.050.00	19617	
7 As Test and Week Positive	13	- 1	2,000,00	3,000.00	2500-35	2,500,00	1,850,00	1,850,00	7,200.00	7,200,00	2.887.50	2,500,00	(347.50)	-11.4%	5.000.00	200 001	
8 Performance Later and Payment Band	LB	- 1	1,500.00	1,500.00	1.479.00	1,479.00	1,200,00	3,200,00	2,300,00	2.200.00	1,719.75		(240.75)	14.00%	3:318:50	180 401	
SUB-TOTAL, CULTYATE (LM SANITARY SEWER (CAP) IMPROVEMENTS				127,630.00		104,156.00		188,001.00		223,913.00							

IRVINE RANCH WATER DIST EXHIBIT "D"

Expenditure Authorization

Project Name: PA51 LQ ST FROM BOSQUE TO Z ST 12" RW

EPMS Project No: 31213 EA No: 1

Oracle Project No: 5536

Project Manager: LEW, KELLY

Project Engineer: KESSLER, CHRISTIAN

Request Date: October 13, 2015

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No. Allocation % Source of Funds

 212
 87.4
 BONDS YET TO BE SOLD**

 253
 12.6
 BONDS YET TO BE SOLD**

 Total
 100.0%

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$416,900
Total EA Requests:	\$416,900
Previously Approved Budget:	\$383,900
Budget Adjustment Requested this EA:	\$33,000
Updated Budget:	\$416,900

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start I	Finish
ENGINEERING DESIGN - IRWD	15,000	0	15,000	0	15,000	15,000	5/14	6/15
ENGINEERING DESIGN - OUTSIDE	45,000	0	45,000	20,000	25,000	45,000	5/14	6/15
DESIGN STAFF FIELD SUPPORT	10,000	0	10,000	0	10,000	10,000	7/15	12/16
ENGINEERING - CA&I IRWD	20,000	0	20,000	0	20,000	20,000	7/15	12/16
ENGINEERING - CA&I OUTSIDE	35.000	0	35,000	10.000	25,000	35,000	7/15	12/16
CONSTRUCTION FIELD SUPPORT	10,000	0	10,000	0	10,000	10,000	7/15	12/16
CONSTRUCTION	240,000	0	240,000	0	240,000	240,000	7/15	12/16
LEGAL	4,000	0	4,000	0	4,000	4,000	7/15	12/16
Contingency - 10.00% Subtotal	\$37,900	\$0	\$37,900	\$3,000	\$34,900	\$37,900		
Subtotal (Direct Costs)	\$416,900	\$0	\$416,900	\$33,000	\$383,900	\$416,900		
Estimated G/A - 185.00% of direct labor*	\$101,800	\$0	\$101,800	\$0	\$101,800	\$101,800		
Total	\$518,700	\$0	\$518,700	\$33.000	\$485.700	\$518.700		
Direct Labor	\$55,000	\$0	\$55,000	\$0	\$55,000	\$55,000		

EA Originator:	Christin Kersh	10/13/15
Department Director:	Lovin & Benton	10/13/15
Finance:		

^{**} IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of additional documents, if any, which are hereby incorp project is made under Treasury Regulation Section 1.1

Expenditure Authorization

Project Name: PA51 CADENCE - PUSANTO CHINON 12" & 16"

EPMS Project No: 30503 EA No: 1

Oracle Project No: 5758

Project Manager: LEW, KELLY

Project Engineer: KESSLER, CHRISTIAN

Request Date: October 5, 2015

Summary of Direct Cost Authorizations

\$271,700 \$271,700
\$271,700
\$240,900
\$30,800
\$271,700

Comments:

ID Split: Miscellaneous
Improvement District (ID) Allocations

ID No. Allocation % Source of Funds

 212
 87.4
 BONDS YET TO BE SOLD**

 253
 12.6
 BONDS YET TO BE SOLD**

Total 100.0%

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start F	Finisl
ENGINEERING DESIGN - IRWD	10,000	0	10,000	0	10,000	10,000	8/14	6/15
ENGINEERING DESIGN - OUTSIDE	35,000	0	35,000	19,000	16,000	35,000	8/14	6/15
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	0	5,000	5,000	8/14	6/15
ENGINEERING - CA&I IRWD	10,000	0	10,000	0	10,000	10,000	7/15	12/16
ENGINEERING - CA&I OUTSIDE	25,000	0	25,000	9,000	16,000	25,000	7/15	12/16
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	0	5,000	5,000	7/15	12/16
CONSTRUCTION	155,000	. 0	155,000	0	155,000	155,000	7/15	12/16
LEGAL	2,000	0	2,000	0	2,000	2,000	8/14	12/16
Contingency - 10.00% Subtotal	\$24,700	\$0	\$24,700	\$2,800	\$21,900	\$24,700		
Subtotal (Direct Costs)	\$271,700	\$0	\$271,700	\$30,800	\$240,900	\$271,700		
Estimated G/A - 185.00% of direct labor*	\$55,600	\$0	\$55,600	\$0	\$55,600	\$55,600		
Total	\$327.300	\$0	\$327,300	\$30,800	\$296.500	\$327,300		
Direct Labor	\$30,000	\$0	\$30,000	\$0	\$30,000	\$30,000]	

EA Originator:	Christian Kersler	10/13/15
Department Director:	Leven & Benton	10/13/15
Finance:		

^{**} IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of additional documents, if any, which are hereby incorping project is made under Treasury Regulation Section 1.1

D-2

in of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.1

Expenditure Authorization

Project Name: PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 12" ZN 4

EPMS Project No: 11804 EA No: 1

Oracle Project No: 5756

Project Manager: LEW, KELLY

Project Engineer: KESSLER, CHRISTIAN

Request Date: October 5, 2015

ID Split: Miscellaneous

Improvement District (ID) Allocations

ID No. Allocation % Source of Funds

112	98.2	BONDS YET TO BE SOLD**
153	1.8	BONDS YET TO BE SOLD**
	100.00	

Total 100.0%

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$243,100
Total EA Requests:	\$243,100
Previously Approved Budget:	\$176,000
Budget Adjustment Requested this EA:	\$67,100
Updated Budget:	\$243,100

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	9,000	0	9,000	0	9,000	9,000	8/14	6/15
ENGINEERING DESIGN - OUTSIDE	20,000	0	20,000	9,000	11,000	20,000	8/14	6/15
DESIGN STAFF FIELD SUPPORT	6,000	0	6,000	0	6,000	6,000	8/14	6/15
ENGINEERING - CA&I IRWD	18,000	0	18,000	7,000	11,000	18,000	7/15	8/16
ENGINEERING - CA&I OUTSIDE	9,000	0	9,000	0	9,000	9,000	7/15	8/16
CONSTRUCTION FIELD SUPPORT	6,000	0	6,000	0	6,000	6,000	7/15	8/16
CONSTRUCTION	150,000	0	150,000	45,000	105,000	150,000	7/15	8/16
LEGAL	3,000	0	3,000	0	3,000	3,000	8/14	8/16
Contingency - 10.00% Subtotal	\$22,100	\$0	\$22,100	\$6,100	\$16,000	\$22,100		
Subtotal (Direct Costs)	\$243,100	\$0	\$243,100	\$67,100	\$176,000	\$243,100		
Estimated G/A - 185.00% of direct labor*	\$72,200	\$0	\$72,200	\$12,900	\$59,300	\$72,200		
Total	\$315,300	\$0	\$315,300	\$80,000	\$235,300	\$315,300		
Direct Labor	\$39,000	\$0	\$39,000	\$7,000	\$32,000	\$39,000	1	

EA Originator:	Christia Kessh	10/13/15
Department Director:	Leving I Benton	10/13/15
Finance:		
Board/General Manager:	1	

^{**} IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of additional documents, if any, which are hereby incorplect is made under Treasury Regulation Section 1.

Expenditure Authorization

Project Name: PA51 "B" ST FROM SOCIABLE TO IRVINE BLV 16" ZN C

ID Split: Miscellaneous EPMS Project No: 31804 EA No: 1

Oracle Project No: 5757

LEW, KELLY Project Manager:

Project Engineer: KESSLER, CHRISTIAN

Request Date: October 5, 2015

Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$240,900
Total EA Requests:	\$240,900
Previously Approved Budget:	\$240,900
Budget Adjustment Requested this EA:	\$0
Updated Budget:	\$240,900

Comments:

	Improvement Dis	trict (ID) Allocations	
<u>).</u>	Allocation %	Source of Funds	

ID No.	Allocation %	Source of Funds
212	87.4	BONDS YET TO BE SOLD**
253	12.6	BONDS YET TO BE SOLD**
TT	400 00	

Total	100.0%
LOMAI	100.07

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING DESIGN - IRWD	10,000	0	10,000	0	10,000	10,000	8/14	6/15
ENGINEERING DESIGN - OUTSIDE	20,000	0	20,000	4,000	16,000	20,000	8/14	6/15
DESIGN STAFF FIELD SUPPORT	5,000	0	5,000	0	5,000	5,000	8/14	6/15
ENGINEERING - CA&I IRWD	10,000	0	10,000	0	10,000	10,000	7/15	8/16
ENGINEERING - CA&I OUTSIDE	18,000	0	18,000	2,000	16,000	18,000	7/15	8/16
CONSTRUCTION FIELD SUPPORT	5,000	0	5,000	0	5,000	5,000	7/15	8/16
CONSTRUCTION	149,000	0	149,000	(6,000)	155,000	149,000	7/15	8/16
LEGAL	2,000	0	2,000	0	2,000	2,000	8/14	8/16
Contingency - 10.00% Subtotal	\$21,900	\$0	\$21,900	\$0	\$21,900	\$21,900		
Subtotal (Direct Costs)	\$240,900	\$0	\$240,900	\$0	\$240,900	\$240,900		
Estimated G/A - 185.00% of direct labor*	\$55,600	\$0	\$55,600	\$0	\$55,600	\$55,600		
Total	\$296,500	\$0	\$296,500	\$0	\$296.500	\$296.500		
Direct Labor	\$30,000	\$0	\$30,000	\$0	\$30,000	\$30,000		

EA Originator:	Orpition Reply	10/13/15	
Department Director:	Thing of Bents	10/13/15	
Finance:			
Board/General Manager:	it reasonably expects those expenditures marked with two as	Andril A. L	_

incurred by IRWD in a maximum principal amount of \$3000000 at is further described in the attached staff report and additional documents, if any, which are hereby incorpora of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-

October 26, 2015

Prepared by: K. Welch

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul Cook

CONSENT CALENDAR

RECOVERY CAPACITY FOR WATER EXCHANGE AGREEMENT

SUMMARY:

Staff has received an urgent request from Steven Jackson, in Dudley Ridge Water District (DRWD), to allow the use of IRWD's recovery capacity in the Kern Water Bank (KWB) in exchange for water transferred to IRWD. Staff recommends that the Board authorize the General Manager to execute an agreement with Steven Jackson to allow temporary access to IRWD recovery capacity at the KWB in exchange for the transfer of water into IRWD's KWB storage account.

BACKGROUND:

In 2010, IRWD completed the acquisition of the Jackson Ranch property in Kings County with the right to use 1,747 AF per year of State Water Project (SWP) Table A water through DRWD. In addition, IRWD purchased the property's assigned portion of DRWD's participation rights in the KWB providing 9,495 acre-feet (AF) of dedicated storage capacity and associated first priority recharge and recovery rights. Through this participation in the KWB, IRWD also obtained access to unused storage, recharge and recovery capacity in the KWB. IRWD's recovery capacity within the KWB is 6.58% of DRWD's capacity in the KWB. Over a five year rolling average, IRWD has rights to recovery of up to 6,330 AF. Currently, the District has 4,188 AF in its KWB storage account which must ultimately be used on the Jackson Ranch. Currently, the Jackson Ranch property is leased to Adee Honey Farms and the lessee's water requests for the year will be accommodated through direct deliveries from the SWP.

In March 2015, the Water Banking Committee authorized the General Manager to execute an agreement that allowed Steven Jackson to utilize a portion of IRWD's recovery capacity within the KWB to recover 300 AF of water from his KWB storage account. In exchange, Mr. Jackson transferred 150 AF of stored supplies to IRWD's KWB storage account.

Recently, Mr. Jackson contacted staff with an urgent request to again use IRWD recovery capacity in the KWB to recover 150 AF of his water in exchange for 75 AF to be transferred to IRWD's KWB account prior to the end of 2015. Staff and legal counsel have prepared an exchange agreement for this transaction based on the agreement approved in March 2015. This new exchange agreement is provided as Exhibit "A". IRWD has sufficient recovery capacity available in the KWB to facilitate the exchange and the transaction will not affect IRWD's ability to deliver water to the lessee this year. Staff recommends that the Board authorize the General Manager to execute the agreement with Steven Jackson.

Consent Calendar: Recovery Capacity For Water Exchange Agreement

October 26, 2015

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FISCAL IMPACTS:

Steven Jackson will pay all costs for the exchange including costs to recover his 150 AF of water from the KWB. There will be no fees to transfer the 75 AF of water from Jackson's KWB storage account to IRWD's KWB storage account.

ENVIRONMENTAL COMPLIANCE:

An Initial Study/Negative Declaration for the IRWD Jackson Ranch Water Allocation Project was prepared and circulated for public review in compliance with the California Environmental Quality Act. A Notice of Determination for the final Negative Declaration for the Project was filed by IRWD on January 14, 2010, and by DRWD on January 20, 2010. DRWD filed a Notice of Determination for its 2005 Water Management Plan Negative Declaration on March 9, 2005.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE AGREEMENT WITH STEVEN JACKSON, SUBJECT TO NON-SUBSTANTIVE CHANGES, TO ALLOW TEMPORARY ACCESS TO THE USE OF IRWD'S RECOVERY CAPACITY IN THE KERN WATER BANK IN EXCHANGE FOR WATER TRANSFERRED TO IRWD'S KERN WATER BANK STORAGE ACCOUNT.

LIST OF EXHIBITS:

Exhibit "A" - Draft Agreement Between IRWD and Steven Jackson for Water Exchange

EXHIBIT "A"



IRVINE RAYCH WATER DISTRICT 15600 Sand Canyon Ave., P.O. Box 57000, Irvine, CA 92619-7000 (949) 453-5300

October, 2015

Mr. Steven D. Jackson 5319 W. Delaware Ave Visalia, CA 93291

Exchange for 2015 Re:

Dear Mr. Jackson:

This letter will confirm that Irvine Ranch Water District ("IRWD") and Steven D. Jackson ("Exchange Partner") have determined to proceed with the water exchange transaction described in the below-defined Term Sheet (the "Exchange") (IRWD and Exchange Partner collectively are referred to as the "Parties" and each individually may be referred to as a "Party"). The Parties hereby agree that the Exchange will be implemented as described in this letter (the "Agreement") and the specific terms set forth in Exhibit "A" attached hereto and incorporated herein by this reference (the "Term Sheet"), and that the Exchange will be governed by, and is entered into subject to, the terms and conditions of the Term Sheet together with the general terms, conditions and representations set forth in Exhibit "B" attached hereto and incorporated herein by this reference.

By its signature hereon, Exchange Partner accepts this Agreement, inclusive of Exhibits "A" and "B." Please indicate Exchange Partner's acceptance of the Agreement, by signing and returning the enclosed copy. Thank you for your cooperation.

1	Sincerely,
	IRVINE RANCH WATER DISTRICT
	By:Paul A. Cook, General Manager
READ, APPROVED A	AND ACCEPTED:
	EXCHANGE PARTNER
	By:Steven D. Jackson

Exhibit "A"

Terms for a Water Exchange in 2015 (October ___, 2015)

Parties: Steven D. Jackson ("Exchange Partner") and Irvine Ranch Water District ("IRWD")

Description: IRWD and Exchange Partner intend to enter into an Exchange of water during 2015 whereby Exchange Partner will use a portion of IRWD's allocated recovery capacity in the Kern Water Bank to recover 150 acre feet (AF) from Exchange Partner's Kern Water Bank stored water account and in exchange will transfer 75 AF from the Exchange Partner's Kern Water Bank stored water account to IRWD's Kern Water Bank stored water account.

Term: The Exchange must be complete by December 31, 2015.

Exchange Water: IRWD will allow Exchange Partner to use IRWD's allocated recovery capacity in the Kern Water Bank to recover up to 150 AF from Exchange Partner's Kern Water Bank stored water account. The recovered water will be delivered by Dudley Ridge Water District ("DRWD") to the Exchange Partner's property within DRWD at the Exchange Partner's requested Point of Delivery. The Exchange Partner will cause 75 AF ("Exchange Water") to be transferred from the Exchange Partner's Kern Water Bank stored water account to IRWD's Kern Water Bank stored water account. No delivery of the Exchange Water to a point of delivery will take place. Notwithstanding anything contained in Exhibit "B," IRWD shall not have liability for any control, carriage, handling, use, disposal, or distribution of any water in this Exchange. The net effect of the exchange will be a debit of 225 AF from the Exchange Partner's Kern Water Bank stored water account and a credit of 75 AF to IRWD's Kern Water Bank stored water account.

Losses: The Kern Water Bank Authority applies a 10 percent loss factor to all water recharged and stored in the KWB. The losses shall accrue to the Exchange Partner prior to the credit of the 75 AF of Exchange Water being transferred to IRWD's stored water account in the Kern Water Bank.

Costs: The Exchange Partner will pay the Kern Water Bank Authority's cost of pumping associated with the 150 AF of water to be recovered from the Exchange Partner's Kern Water Bank stored account. The Exchange Partner is responsible for any administrative costs, fees and environmental compliance and/or permitting costs required to facilitate the Exchange.

CEQA: Dudley Ridge Water District Negative Declaration, 2005 Water Management Plan, March 9, 2005.

EXHIBIT "B"

GENERAL TERMS, CONDITIONS AND REPRESENTATIONS – WATER EXCHANGE

The below general terms, conditions and representations are incorporated in the agreement ("Agreement") between Irvine Ranch Water District ("IRWD") and the counterparty or parties specified in such agreement (such party or such parties collectively herein referred to as "Exchange Partner") (IRWD and Exchange Partner collectively are referred to as the "Parties" and each individually may be referred to as a "Party"). The "Exchange" means the transaction described in the term sheet which is attached to and incorporated in the agreement as Exhibit "A" (the "Term Sheet"). Each and all of the below terms and conditions are intended to supplement the Term Sheet and, to the extent inconsistent therewith, are intended to amend and replace said Term Sheet:

- 1. Mediation: The Parties agree that any and all disputes, claims or controversies regarding the Exchange, the Term Sheet, or the Agreement, shall be submitted to mediation in a mutually agreeable venue and if the matter is not resolved through mediation, then it may be submitted to any court of competent jurisdiction. Any affected Party may commence mediation by providing the other Party a written request for mediation, setting forth the subject of the dispute and the relief requested. The Parties shall cooperate with one another in selecting a mediator and in scheduling the mediation proceedings. The Parties covenant that they shall participate in the mediation in good faith, and that they shall share equally in costs charged by the mediator. All offers, promises, conduct and statements, whether oral or written, made in the course of the mediation by any of the Parties, their agents, employees, experts and attorneys, and by the mediator or any of the mediator's employees, are confidential, privileged and inadmissible for any purpose, including impeachment, in any arbitration or other proceeding involving the Parties, provided that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the mediation. The provisions of the Agreement with respect to mediation may be enforced by any Court of competent jurisdiction, and the Party seeking such enforcement shall be entitled to an award of all costs, fees and expenses, including attorneys' fees, to be paid by the Party against whom such enforcement is ordered.
- 2. Release and Indemnification: IRWD and its officers, agents, or employees shall not be liable for the control, carriage, handling, use, disposal, or distribution of exchange or return water upstream of the IRWD POD, or for the control, carriage, handling, use, disposal, or distribution of exchange or return water downstream of the Exchange Partner POD, nor for any claim of damage of any nature whatsoever, including but not limited to property damage, personal injury or death, arising out of or connected with the control, carriage, handling, use, disposal or distribution of such water, unless such damages or claims are a result of negligent, intentional or reckless misconduct on the part of IRWD.

Exchange Partner and its/their officers, agents, and employees shall not be liable for the control, carriage, handling, use, disposal, or distribution of exchange or return water downstream of IRWD POD or for the control, carriage, handling, use, disposal, or distribution of exchange or

return water upstream of the Exchange Partner POD, nor for any claim of damage of any nature whatsoever, including, but not limited to, property damage, personal injury or death, arising out of or connected with the control, carriage, handling, use, disposal, or distribution of such water, unless such damages or claims are a result of negligent, intentional or reckless misconduct on the part of Exchange Partner.

For purposes of this Section, "IRWD POD" shall mean any point to which Exchange Partner is required to deliver water to IRWD or for its account pursuant to the Term Sheet, and "Exchange Partner POD" shall mean any point to which IRWD is required to deliver water to Exchange Partner or for its account pursuant to the Term Sheet.

Neither IRWD nor Exchange partner shall be liable to the other for any claims related to the impairment of the quality of water as a result of storage in any Party's banking facilities or the aquifer from any cause.

Each Party will indemnify, defend, and hold the other harmless from any claims made by landowners in the respective Party's service area as a result of activities of the indemnifying party or its diversion, control, carriage, handling, use, disposal or distribution of water into and out of storage in its performance under the Term Sheet or the Agreement, and any claims relating to any third party claiming a prior right, or interference with their right, to water delivered from one Party to the other.

Each Party shall at all times indemnify, defend and save the other Party free and harmless from, and pay in full, any and all causes of action, claims, liabilities, obligations, demands, losses, judgments, damages or expenses, including reasonable attorney fees and costs ("claims") in any manner arising out of or connected with the indemnifying Party's activities in its performance under the Term Sheet or the Agreement or its diversion, control, carriage, handling, use, disposal or distribution of water into and out of storage, excepting any loss, damage or expense and claims for loss, damage or expense resulting in any manner from the negligent act or acts of the other Party, or its Board of Directors, officers, representatives, consultants, contractors, agents or employees.

In the event a Party entitled to indemnification is made a party to any action, lawsuit, or other adversarial proceeding alleging negligent or wrongful conduct on the part of an indemnifying Party, then (1) the indemnifying Party shall provide a defense to the other or, at the indemnitee's option, reimburse the indemnitee its costs of defense, including reasonable attorneys' fees, incurred in defense of such claims, and (2) the indemnifying Party shall promptly pay any final judgment or portion thereof rendered against the indemnitee(s).

3. <u>Notices</u>: All written notices required to be given pursuant to the terms of the Term Sheet or the Agreement shall be either (i) personally delivered, (ii) deposited in the United States express mail or first class mail, registered or certified, return receipt requested, postage prepaid, (iii) delivered by overnight courier service, or (iv) delivered by facsimile transmission or e-mail, provided that the original of such notice is sent by certified United States mail, postage prepaid, or by overnight courier, no later than one (1) business day following such facsimile transmission or email. All such notices shall be deemed delivered upon actual receipt (or upon first attempt at

delivery pursuant to the methods specified in clauses (i), (ii) or (iii) above if the intended recipient refuses to accept delivery). All such notices shall be delivered to the addresses shown in this Agreement or to such other address as the receiving Party may from time to time specify by written notice to the other Party given in the manner provided herein.

4. Representations and Warranties:

- (A) Each of the Parties represents and warrants to the other Party that it is a duly organized or constituted entity, with all requisite power to carry out its obligations under the Term Sheet and the Agreement, and that the execution, delivery and performance of these documents have been duly authorized by all necessary action of the board of directors or other governing body of such representing Party, and shall not result in a violation of such representing Party's organizational documents.
- (B) Each of the Parties represents and warrants to the other Party and agrees that it has and, at all times during the term of this agreement shall have, insurance coverage for its facilities and operations, including those facilities owned or operated by such representing Party and those operations which will be carried out by such representing Party in any delivery, transport and receipt of Exchange or Return Water as specified in the Term Sheet.
- (C) Each of the Parties represents and warrants to the other Party that it has legally enforceable rights to carry out its performance under the terms of the Agreement.
- (D) Each of the Parties represents and warrants to the other Party that entry into the Agreement does not create or result in the breach of any other agreement to which such representing Party is a party or to which it is otherwise subject to or bound.
- (E) Each of the Parties represents and warrants to the other Party that, to such representing Party's knowledge at the time it executed the Agreement, there is no pending or threatened litigation involving such representing Party that will affect the Agreement.
- (F) Each of the Parties represents and warrants to the other Party that, prior to commencement of the performance of the Agreement, such representing Party has completed an environmental review or taken such other action, if any, required of such representing Party to comply with the California Environmental Quality Act (CEQA) with respect to the Exchange, and that to such representing Party's knowledge, no actions or proceedings have been initiated attacking the validity of such CEQA compliance.
- (G) The Parties have relied on the forgoing representations, warranties, and covenants as a material inducement to execute the Agreement, and should any material representation not be correct or true, it shall constitute a material breach of the Agreement.

5. <u>Termination For Breach</u>: Either Party may terminate the Agreement if the other Party breaches any material obligation under the Agreement and such breach continues for a period of sixty (60) days, or such other period as may be reasonable under the circumstances, after the date on which written notice is issued by the non-breaching Party. The non-breaching Party shall be entitled to seek any and all legal or equitable damages and/or remedies as a result of the breaching Party's breach.

In the event that either IRWD or Exchange Partner is in material default of this Agreement, the non-defaulting Party shall provide written notice to the defaulting Party, identifying with reasonable specificity the nature of the claimed default. If the defaulting Party has not cured the event(s) of material default which is (are) identified in the notice required by this section within twenty (20) business days after receipt of written notification, or such other period as is reasonable under the circumstances, the non-defaulting Party shall be entitled to any and all remedies which may be available to it at law or in equity. This provision is not intended to provide a separate termination right, which is set forth in the first paragraph of this Section.

- 6. <u>Governing Law</u>: The Term Sheet and the Agreement shall be construed and enforced in accordance with the laws of the State of California.
- 7. <u>Amendments</u>: No amendment of the Term Sheet or the Agreement shall be binding upon the Parties unless it is in writing and executed by both of the Parties.
- 8. <u>Further Action</u>: The Parties agree to and shall take such further action and execute and deliver such additional documents as may be reasonably required to effectuate the Exchange, consistent with each and all of the terms and conditions of the Term Sheet and the Agreement.
- 9. <u>Assignment</u>: No Party shall assign or otherwise transfer its rights or obligations in, under or to the Exchange, the Term Sheet, or the Agreement, in whole or in part, without the prior written consent of the other Party. All covenants and agreements contained in the Term Sheet and the Agreement shall bind and inure to the benefit of the Parties' respective successors and permitted assigns.
- 10. Force Majeure: Change In Law: The respective obligations of each Party hereto shall be suspended while it is prevented from complying by acts of God; war; riots; civil insurrection; acts of civil or military authority; fires; floods; earthquakes; labor accidents or incidents; rules and regulations of any federal, state, or other governmental agency (other than the Parties themselves); changes in law, rules, or regulations of any federal, state or other governmental agency (other than the Parties themselves); or other cause of the same or other character any of which are beyond the reasonable control of such Party (collectively, "Force Majeure"). In the event of a suspension due to the foregoing, the Party whose obligations are suspended shall promptly notify the other Party in writing of such suspension and the cause and estimated duration of such suspension.

The Party providing such notice shall be excused from fulfilling its obligations under this Agreement until such time as the Force Majeure has ceased to prevent performance or other remedial action is taken, at which time the Party shall promptly notify the other Party of the

resumption of its obligations under the Agreement. Any Party rendered unable to fulfill any of its obligations by reason of a Force Majeure shall exercise due diligence to remove such inability with reasonable dispatch within a reasonable time period and mitigate the effects of the Force Majeure. The relief from performance shall be of no greater scope and of no longer duration than is required by the Force Majeure.

- 11. <u>Joint Drafting and Negotiation</u>: The Agreement has been jointly negotiated and drafted. The language of each shall be construed as a whole according to its fair meaning and without regard to or aid of Civil Code Section 1654 or similar judicial rules of construction. Each Party acknowledges that it has had the opportunity to seek the advice of experts and legal counsel prior to executing said documents and that it is fully aware of and understands all of their respective terms and the legal consequences thereof.
- 12. <u>Headings</u>: Headings used in the Agreement are for reference only and shall not affect the construction of the Agreement.
- 13. <u>No Third Party Beneficiaries</u>: No third party beneficiaries are intended by the Parties hereto, and no third party shall be entitled to claim or enforce any rights under the Agreement.
- 14. <u>Severability</u>: In the event that any provision of the Agreement is determined by a court to be invalid, the court shall reform the provision in a manner that is both consistent with the terms of the Agreement taken as a whole and legally valid. The remainder of the Agreement shall not be affected thereby.
- 15. <u>Successors and Permitted Assigns</u>: All covenants and agreements contained in the Agreement by or on behalf of any of the Parties shall bind and inure to the benefit of their respective successors and permitted assigns under Section 9, whether so expressed or not.
- 16. <u>No Effect on Other Agreements or Transactions</u>: Except to the extent otherwise specified in the Term Sheet, the Agreement and the Exchange are intended to be entirely independent of any other transaction or agreement between the Parties and shall have no effect upon, and shall not be affected by, any such other transaction or agreement.
- 17. <u>Costs and Expenses</u>: Except to the extent otherwise provided in the Term Sheet, no compensation shall be due to either Party with respect to the Exchange and each Party shall be responsible for all of its engineering, legal and other costs and expenses to implement the Exchange transaction.

October 26, 2015

Prepared by: Tony Mossbarger

Submitted by: Cheryl Clary

Approved by: Paul Cook

CONSENT CALENDAR

ANNUAL MICROSOFT ENTERPRISE AGREEMENT SOFTWARE MAINTENANCE RENEWAL

SUMMARY:

The Microsoft Enterprise Agreement Software Maintenance, which provides upgrades and maintenance for all of the Microsoft software used by the District, expires November 30, 2015. This agreement provides discounted pricing for software maintenance and licenses to State and local government entities. Staff recommends renewal of the Microsoft Enterprise Agreement for a three-year period effective December 1, 2015 and through November 30, 2018, in the amount of \$390,000.

BACKGROUND:

The District participates in the Microsoft Enterprise Agreement for State and local governments, providing for software upgrades and maintenance for all Microsoft software used by the District. The agreement provides discounted pricing for software maintenance on existing licenses as well as new licenses. The District uses Microsoft Windows Desktop operating system, Microsoft Office (Word, Excel, PowerPoint, Access, Visio, and Project), Microsoft SQL Data Base, and Microsoft Server operating system software. The agreement covers all versions of the Microsoft software products purchased and allows the District to upgrade to new versions as they become available.

In addition to the software maintenance, the agreement provides on-line training for a majority of the software products, as well as training class vouchers for technical training provided by Microsoft certified training partners. Additionally, the agreement provides for use of Microsoft Office software by staff on their home computers through the Home Use Program. Employees are able to download this software for a nominal fee and install it for personal use as well.

Staff recommends renewal of the Microsoft Enterprise Agreement for the period beginning December 1, 2015 and ending November 30, 2018. The renewal amount for this period is \$390,000.00.

FISCAL IMPACTS:

The amount for FY 2015-16 based on the renewal of the Microsoft Enterprise Agreement Software Maintenance agreement is approximately \$130,000 per year and \$390,000 for the three-year term. The \$130,000 is included in the approved FY 2015-16 operating budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

Consent 'Calendar: Annual Microsoft Enterprise Agreement Software Maintenance Renewal October 26, 2015
Page 2

COMMITTEE STATUS:

This item was reviewed by the Finance and Personnel Committee meeting on October 19, 2015.

RECOMMENDATION:

THAT THE BOARD APPROVE THE RENEWAL OF THE MICROSOFT ENTERPRISE AGREEMENT BEGINNING DECEMBER 1, 2015 FOR A TOTAL COMMITMENT OF \$390,000.

LIST OF EXHIBITS.

None.

October 26, 2015

Prepared by: T. Bonkowski/M. Cortez

Submitted by: K. Burton Russ

Approved by: Paul Cook

ACTION CALENDAR

CULVER DRIVE SEWER MANHOLE IMPROVEMENTS CONSTRUCTION AWARD

SUMMARY:

This project will replace the top components of 11 sewer manholes to enlarge the 24-inch diameter openings to 36-inch diameter. The manholes are located within Culver Drive between Main Street and Deerfield Avenue. Staff recommends that the Board:

- Authorize a budget increase for Project 21169 in the amount of \$100,000, from \$368,000 to \$468,000; and
- Authorize the General Manager to execute a construction contract with Paulus Engineering, Inc. in the amount of \$319,013, for the Culver Drive Sewer Manhole Improvements, Project 21169.

BACKGROUND:

The Culver Drive Trunk Sewer was constructed in 1970 with manholes that have 24-inch diameter covers. These openings do not provide adequate access to District personnel and hinder the use of emergency bypass equipment. This project will replace the existing covers with 36-inch diameter covers and construct all appurtenant improvements including manhole shaft and cone sections, coating, grade rings, frames, covers and replacement of street section. The manholes are located within Culver Drive between Main Street and Deerfield Avenue. A location map is attached as Exhibit "A".

Bid Opening:

The project was advertised August 31, 2015 to a select list of 19 contractors. The bid opening was held on October 8, 2015 with bids received from CCL Contracting, EJ Meyers Company, GCI Construction, Kennedy Pipeline, Paulus Engineering, and TE Roberts. The bids ranged from \$319,013 to \$1,100,820. Paulus Engineering is the apparent low bidder with a bid amount of \$319,013. The District's civil engineering consultant, Linkture, prepared the engineer's estimate of \$190,000 based on input from the concrete product manufacturer and local contractors familiar with work in the City of Irvine. Staff reviewed Paulus's bid and determined it to be responsive. Staff recommends awarding the construction contract to Paulus Engineering, Inc. in the amount of \$319,013. A bid summary is attached as Exhibit "B".

FISCAL IMPACTS:

Project 21169 (5450) is included in the FY 2015-16 Capital Budget. A budget increase is required to fund the construction and engineering support services for the project as shown in the following table.

Action Calendar: Culver Drive Sewer Manhole Improvements Construction Award

October 26, 2015

Page 2

Project	Current	Addition	
No.	Budget	<reduction></reduction>	Total Budget
21169 (5450)	\$368,000	\$100,000	\$468,000

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption was filed with the County of Orange on June 3, 2015.

COMMITTEE STATUS:

Construction awards are not routinely taken to Committee prior to submittal to the Board.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE FOR PROJECT 21169 (5450) IN THE AMOUNT OF \$100,000, FROM \$368,000 TO \$468,000; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH PAULUS ENGINEERING, INC. IN THE AMOUNT OF \$319,013 FOR THE CULVER DRIVE SEWER MANHOLE IMPROVEMENTS, PROJECT 21169 (5450).

LIST OF EXHIBITS:

Exhibit "A" - Location Map

Exhibit "B" - Bid Summary

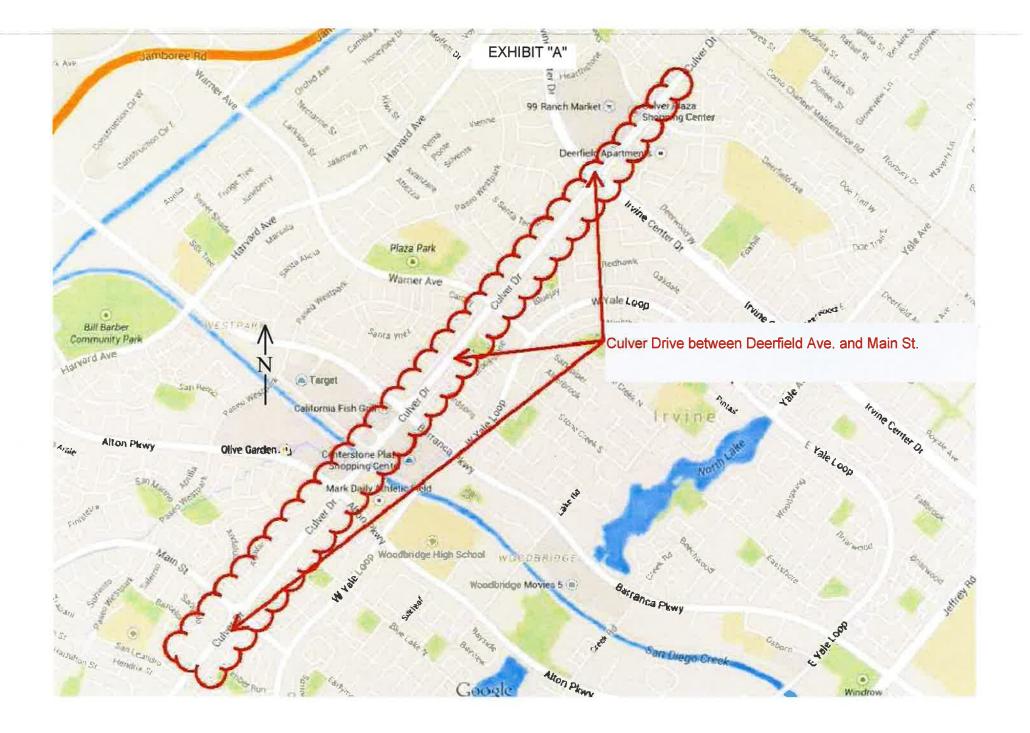


EXHIBIT "B"Irvine Ranch Water District Bid Summary For Culver Drive Sewer Manhole Improvements PR 21169 (5420) - Code 6502

							1		2		3		4		5		6
				Engineer'	s Estimate	Paulus E	ngineering	CCL Co	ntracting	GCI Const	ruction, Inc.	E.J. Meye	r Company	T.E. Rol	perts. Inc.	Kenne	dy Pipeline
			-			Anahe	Anaheim, CA		Escondido, CA San Clemente CA		Highland, CA		Orange, CA		Aliso Vieio, CA		
						724114/1	000000540	798819/1	000006638	755356/1000001150		218385/1000002087		603008/1000000280		986360/1000011313	
Item	- Description			Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total	Unit	Total
No.	Description	Qty	Unit	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Amount	Price	Атошт
	Mobilization, Demobilization, Cleanup and																ranoun
1	Spoil Disposal	1	LS	\$10,400.00	\$10,400.00	\$16,000.00	\$16,000.00	\$27,500.00	\$27,500.00	\$25,000.00	\$25,000,00	\$15,944.00	\$15,944 00	\$29,200,00	\$29,200.00	\$20,000.00	\$20,000.00
	Traffic Control for the Construction Work														027,200.00	020,000.00	320,000 00
2	Area	1	LS	\$14,500.00	\$14,500.00	\$10,000.00	\$10,000.00	\$6,900.00	\$6,900.00	\$16,000 00	\$16,000.00	\$20,000,00	\$20,000.00	\$80,000.00	\$80,000.00	\$60,000,00	\$60,000.00
3	Excavation and Safety Measures	J	LS	\$5,000.00	\$5,000.00	\$1,700.00	\$1,700.00	\$10,900.00	\$10,900 00		\$39,000.00		\$11,000.00	\$48,000.00			\$15,000.00
4	Remove Manhole Top Sections	11	EA	\$5,000.00	\$55,000.00	\$5,000.00	\$55,000.00	\$5,900.00	\$64,900,00	\$7,302.00		\$8,000.00			\$84,700.00		2.14
5	Construct New Mahole Top Sections	11	EA	\$5,000.00	\$55,000.00	\$15,575.00	\$171,325.00	\$15,200.00	\$167,200.00	\$9,000.00			\$291,500.00		\$159,500.00		
	Repair Pavement at Manhole Excavation										-			71,120,30	4113,500.00	455,010.00	\$120,710.00
6	Locations	60	Tons	\$115,00	\$6,900.00	\$480.00	\$28,800.00	\$120 00	\$7,200,00	\$1,000.00	\$60,000.00	\$150.00	\$9,000.00	\$420.00	\$25,200.00	\$500.00	\$30,000.00
7	Pavement Slurry Seal	11,000	SF	\$0.80	\$8,800.00	\$2.18	\$23,980.00	\$2.18		\$1.50	\$16,500,00	\$3.00			\$38,500.00	\$10.00	\$110,000.00
8	Backfill with 1-Sack slurry	60	CY	\$115.00	\$6,900.00	\$104,00	\$6,240.00	\$115.00		\$608.00		\$150.00		\$270.00		\$150.00	\$9,000.00
9	Replace Existing Striping	1	LS	\$8,500,00	\$8,500.00	\$3,968.00	\$3,968.00	\$5,600 00	\$5,600.00	\$6,600.00	\$6,600.00	\$5,000.00		\$13,300.00	*****	\$1,000.00	\$1,000,00
10	Final Record Drawings	1	LS	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000.00	\$2,000 00		\$2,000,00	4.5.4.5.5.5.5	\$2,000 00		\$2,000.00	\$2,000.00
	Subtotal				\$173,000,00		\$319,013.00		\$323,080.00		\$380,902,00		\$484,444.00	\$2,000,00	\$496,600 00	52,000,00	\$1,100,820,00
	Adjustment (- or -)			Contingency	\$17,000.00		\$0.00	1	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
	TOTAL AMOUNT OF BID				\$190,000.00		\$319,013.00	0	\$323,080,00		\$380,902.00		\$484,444.00		\$496,600.00		\$1,100,820.00
							acturers:		acturers:		acturers:	Manuf	acturers:	Manufa	cturers:	Manu	facturers:
						Manhole Coat		Manhole Coat Technologies			tings: Sancon	Manhole Coat		Manhole Coati		Manhole Coa	
						Subcon	tractors:	Subcon	tractors:	Subcon	tractors:	Subcon	tractors:	Subcon	tractors:	Subco	ntractors:
						MCS, Inc (44: Manholes	5161):	Olsen Precast Manholes	(751277):	Sancon Techi (774055); Ma	nologies anhole Coating	Sancon Techn (774055): Ma	ologies	Sancon Techno (774055): Man	logies		5161): Manholes
						Pavement Coa (303609): Slu		Pavement Coa (303609); Slui		Superior Pave Markings (77	ernent 6306): Striping	Superior Pave (776306): Stri		Orange County Services (3460)		All American (267073): Par	
								Sancon Techno (774055) Man		Mission Pavi (624257): As		All American (267073): Pav Seal		BC Traffic Spe (877686); Traf			
L								All American (267073): Gri						Pavement Coat (303609): Sluri			

October 26, 2015

Prepared by: J. Moeder/R. Mori Submitted by: K. Burton KLB

Approved by: Paul Cook ! 6.

ACTION CALENDAR

INITIAL DISINFECTION FACILITY SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM VARIANCE

SUMMARY:

Carollo Engineers is on schedule to complete the Preliminary Design Report in November 2015 for the conversion of chlorine gas to sodium hypochlorite at the Initial Disinfection Facility (IDF). Staff proposes to immediately transition to the final design phase upon completion of the Preliminary Design Report. Staff recommends that the Board authorize the General Manager to execute Variance No. 1 in the amount of \$169,914 with Carollo for the final design of the IDF Sodium Hypochlorite Storage and Feed System project.

BACKGROUND:

The IDF provides initial disinfection of groundwater from the Dyer Road Well Field to mitigate biological growth and odors prior to the Primary Disinfection Facility (PDF). The existing chlorine gas system consists of 16 one-ton chlorine gas cylinders, chlorinators, chlorine booster pumps, emergency scrubber system, and a fully-enclosed containment area for truck unloading of the cylinders. This project includes the removal of the existing chlorine gas system and related appurtenances and the installation of new sodium hypochlorite storage and feed facilities in the existing chlorination building.

Staff is nearing completion of a similar chlorine gas conversion project at the Rattlesnake Reservoir Chlorination Facility. Construction of the Rattlesnake project, which was also designed by Carollo, is about 80 percent complete and is anticipated to be online in December 2015. Carollo continues to perform well on the Rattlesnake project and will apply its experience and lessons learned from the project to the design of the IDF conversion project. Given the similarities between the two projects, staff selected Carollo Engineers to prepare the preliminary design for the IDF conversion. As part of the Preliminary Design Report, several workshops were held with operations and maintenance staff to optimize the use of the existing building for the new improvements. Carollo is on schedule to complete the Preliminary Design Report for the IDF conversion in November 2015 and will be ready to begin the final design immediately thereafter.

In accordance with IRWD Goals and Target Activities for 2015, the IDF conversion from chlorine gas to liquid sodium hypochlorite aligns with the District's goal of assessing the ongoing use of chlorine gas and investigating potential conversions to liquid sodium hypochlorite. After conversion of this facility, PDF will be the only remaining District facility using chlorine gas.

In addition, staff recently completed a comprehensive surge analysis for the Dyer Road Well Field and the Zone 1 system that identified the need for surge facilities to be installed at Dyer

Action Calendar: Initial Disinfection Facility Sodium Hypochlorite Storage and Feed System

Variance

October 26, 2015

Page 2

Road Well Field Well No. 16. Since Well No. 16 is located at the site of IDF, staff incorporated the new surge tank into the Preliminary Design Report and into the scope of work for final design.

Variance No. 1:

Carollo Engineers submitted Variance No. 1 in the amount of \$169,914 for final design phase services. The variance, which is attached as Exhibit "A", provides for engineering design and bid phase services for the removal and demolition of the existing chlorine gas system and for the installation of a new sodium hypochlorite storage and feed system, and for the surge suppression system. Construction phase services, which are not included in the variance, will be developed at the end of the final design phase when the project is fully defined. The final design is anticipated to be complete and ready for bid advertisement in June 2016. Staff recommends the Board authorize the General Manager to execute Variance No. 1 in the amount of \$169,914 with Carollo for the final design of the IDF Sodium Hypochlorite Storage and Feed System.

FISCAL IMPACTS:

The IDF Sodium Hypochlorite Storage and Feed System, Project 11838 (6213) is included in the FY 2015-16 Capital Budget. The existing budget is sufficient to fund Variance No. 1.

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. Staff will prepare a Notice of Exemption and file it with the Orange County Clerk/Recorder.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 1 IN THE AMOUNT OF \$169,914 WITH CAROLLO ENGINEERS FOR THE FINAL DESIGN OF THE INITIAL DISINFECTION FACILITY SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM, PROJECT 11838 (6213).

LIST OF EXHIBITS:

Exhibit "A" - Variance No. 1 with Carollo Engineers

EXHIBIT "A"

IRVINE F STRICT PROFESSIONAL SERVICES VARIANCE

Project T	itle: Initial Disinfection Fa		hlorite St	orage and Fe ate: 10/5/15	ed System	1	
	Vo.: 11838(6213) Order No.:)		ariance No.:	1		
Originato] ENGINEER/CON	SULTAN	т [] С	Other (Exp	lain)	
Current sco services. C	ion of Variance (attach any ope of supply provides prelimina consultant shall prepare bid ready is included with this variance for	ary design services for the construction documents	e project. V	ariance #1 will v chemical stor	provide fina	al design and bid I facilities at the	period IDF. The
Engineer	ring & Management Cost In	npact:					
	Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
Senior E	Engineer	18	\$229	\$4,122	\$500		\$4,622
Project E	Engineer	416	\$189	\$78,624	\$1,250		\$79,874
Assistan	t Engineer	180	\$155	\$27,900	\$500		\$28,400
Designer		352	\$147	\$51,744	\$1,500		\$53,244
Docume	nt Processing	34	\$111	\$3,774	\$0		\$3,774
Calcadula	Immost					Total \$ =	\$169,914
Task	Task	Original Schedule	- dai -y-u -	Schedul Variance		Nev Sched	
No2	Description Final Design	0 days	18	0 days		180 days	u,e
Required	l Approval Determination:						
Total O	Original Contract	\$49,450			tive total of	Variances less th	an or equal to
Previou This Va	us Variances \$ <u>0</u> ariance <u>\$169,914</u>		[] Exe	,000. cutive Director qual to \$75,00		ve total of Variar	ices less than
	um of Variances ontract Amount	\$ <u>169,914</u> \$ <u>219,364</u>	[] Ger		Cumulative	e total of Varianc	es less than or
Percent to Ori %	tage of Total Variances ginal Contract	344%				ariances greater t	han \$100,000 _{s.}
ENGINE		122 A 17 11	*****	n hiori m	ATED DIS	TDIOT	
	EER/CONSULTANT: Care	ollo Engineers	IRVINE	RANCH W	ALEK DE	STRICT	
M	EER/CONSULTANT: Care Company Name Ingineer/Manager	ollo Engineers 10/8/15 Date	Lo	rtment Direc	But	io/	12/15

PROFESSIONAL SERVICES VARIANCE REGISTER

ject No.: 11838 Variance		Da	f Weishaar, P.E. tes	Variance
No.	Description	Initiated	Approved	Amount
1	Final Design	10/5/15		\$169,914
	4			





October 8, 2015

Mr. Jacob Moeder, P.E. Capital Projects Engineer Irvine Ranch Water District 15600 Sand Canyon Avenue Irvine Ranch, CA 92619

Subject:

Proposal for Initial Disinfection Facility (IDF) Sodium Hypochlorite Storage & Feed

System

Final Design Services

Dear Mr. Moeder:

Please find attached our scope of work and proposed fee to complete the final design for the subject project. We are nearing completion of the Preliminary Design Report (PDR) and are excited to continue working with IRWD on this important project.

Please note our team will not change as we transition to the next phase of the project. The discipline engineers who have helped ensure the success of the Rattlesnake Reservoir Sodium Hypochlorite Conversion Project (Rattlesnake project) and conversion to bulk chemical storage and feed and assisted in the IDF PDR will continue to support this project. Their continued knowledge of IRWD preferences and experience working with staff will be an asset moving forward and help us maintain a high level of efficiency.

Our Scope of Work is detailed in Exhibit A. This scope is based on the scope developed for the Rattlesnake project. We have included the appropriate number of meetings necessary for the final design phase.

The proposed fee has been broken down into two tables. Exhibit B provides the proposed fee for the sodium hypochlorite storage and feed system final design. Exhibit C provides the proposed fee for the surge tank final design. This has been done so that we may offer certain cost savings to IRWD related to the chemical storage and feed system. The proposed cost and savings can be easily compared to the Rattlesnake fee for your convenience.

The budgeted hours reflect the savings that we believe will be achieved over the course of the project due to having recently completed the Rattlesnake project. We are extensively familiar with IRWD preferences for design related to chemical storage and handling. We can extend this knowledge into the design for the IDF facility and offer efficiencies in producing the final bid documents. Additionally, as the Rattlesnake construction nears completion, we are aware of the "lessons learned" that resulted from requests for information, design clarifications, and change orders. We have applied those lessons to the PDR and will carry them forward to the design phase. Our fee reflects these efficiency savings.

The table below summarizes our proposed fee for the sodium hypochlorite storage and feed system and surge tank final design.

Mr. Jacob Moeder, P.E. Capital Projects Engineer October 8, 2015 Page 2

IDF Sodium Hypochlorite System Design	\$ 151,212
IDF Surge Tank Design	\$ 18,702
Total Proposal Fee	\$ 169,914

Our schedule is shown in the next table. The schedule is based on a notice to proceed date of November 2. The final bid-ready documents will be made available by June, 2016.

Milestone	Date
Notice to Proceed	Nov. 2, 2015
60% Design Submittal	Jan. 26, 2016
60% Review Meeting	Feb. 10, 2016
90% Design Submittal	March 23, 2016
90% Review Meeting	April 6, 2016
100% Design Submittal	May 5, 2016
100% Review Meeting	May 19, 2016
Final Bid Documents	June 3, 2016

Please review the attached information. We look forward to discussing the project scope and fee at your earliest convenience.

Sincerely,

CAROLLO ENGINEERS, INC.

Jeff Weishaar, JW

JW:JW

Enclosures: Budget Tables, Scope of Work (Exhibit A)

cc: Rich Mori, P.E.

Jim Meyerhofer, P.E

EXHIBIT A

SCOPE OF SERVICES

IRVINE RANCH WATER DISTRICT

INITIAL DISINFECTION FACILITY SODIUM HYPOCHLORITE STORAGE AND FEED SYSTEM FINAL DESIGN

OCTOBER 2015

BACKGROUND

The Irvine Ranch Water District (District) is in the process of replacing existing chlorine gas facilities with bulk sodium hypochlorite as a disinfectant. Chlorine gas is a hazardous chemical and requires additional training, inspections, permitting and safety measures for its safe use. The purpose of this project is to replace the chlorine gas system at the District's Initial Disinfection Facility (IDF). The District also has a desire to install a new surge tank at Well 16 on the IDF site. Carollo and the District are nearing completion of the preliminary design report for the new sodium hypochlorite storage and feed system and the surge tank installation at IDF. This exhibit provides the scope of work to provide final design for the project.

SCOPE OF WORK

Task 1 Project Management

Task 1.01 - Project Status Reports

Weekly and monthly written status reports will be provided to the District. Monthly reports will accompany and supplement monthly invoices along with updated project schedules. These reports will provide a narrative summary of progress on the Project, including budget and schedule status. The report will discuss work completed on the Project for the reporting period and anticipated work for the next period. Critical decisions and outstanding action items will be documented and included with each report. Any out-of-scope work, if needed, will be identified in this progress report.

Tasks 1.02 - Meetings and Workshops

Carollo will attend and chair meetings to present project progress and discuss major decisions and action items. A Kick-Off meeting will be used to review the scope of work, establish lines of communication, and discuss project goals and approach. At the meeting, project issues and concerns can be expressed by IRWD staff. Data and other information needs will be discussed. A total of four (4) meetings are scheduled:

- Final Design Kick-off Meeting (2 hr meeting)
- •60% Design Review Meeting (4 hr meeting)

- •90% Design Review Meeting (4 hr meeting)
- •100% Design Review Meeting (4 hr meeting)

Draft agenda and supporting materials will be distributed for review approximately five days prior to each meeting and workshop. Draft and final conference notes will be distributed to all attendees and other interested staff within one week of the meeting.

Task 1 Deliverables

- > Electronic weekly status reports and monthly status reports submitted with the invoice.
- >Meeting agenda and electronic meeting minutes.

Task 2 Final Design

Task 2.01 - Project Manual

The Project Manual will be prepared using IRWD's standard format and IRWD's front end documents. Supplement and special provisions will be included as required to supplement the standard and front end documents. Work sequence and restraints will include allowable shutdown durations and sequencing to minimize facility down time. IRWD technical specifications will be included. Carollo will provide project specific technical specifications to complete the Project Manual for the project. Submittals of the Project Manual will be per the Task 2 Deliverables.

Task 2.02 – Construction Plans

Carollo shall prepare detailed construction drawings in the latest version of AutoCAD and using NCS V 4.0 layering standards, on 24-inch x 36-inch sheets utilizing IRWD's standard border template. Separate sheets with sheet index, location map/legend, general notes, index map, construction notes, condensed profiles, phasing, and detail connections shall be included. Construction notes shall be used (callouts on the plans are not allowed) on all construction drawings. Existing IRWD utilities shall be identified on the plan view by as-built plan set number with the pipeline material and IRWD pressure zone labeled. The index map shall include sheet legend, final alignment, valve locations, surrounding streets, and significant project site locations. Construction plans shall be prepared using the NA VD 88 and NAD 83 survey standards.

Task 2.03 - Utility Research

Carollo has reviewed the as-built information provided with the RFP. The location of existing underground utilities and other physical features will be accurately shown on the construction plans. This will include material, size, horizontal and vertical locations as needed.

Task 2.04 - Electrical and Instrumentation

Carollo will prepare Programming and Instrumentation Diagrams (P&IDs), single line diagrams, control equipment lists, and integration of the new facility into the District's existing SCADA system. We will meet with IRWD electrical and telemetry staff in order to properly and efficiently incorporate IRWD's standard operations, programming, and tagging requirements. Operation schemes and control descriptions will be provided to the District for review and comment.

Task 2.05 - Project Schedule

The project construction schedule and construction sequencing will be updated from the Preliminary Design Report at each submittal point as the design is refined and new features are added.

Task 2.06 - Liquidated Damages

Carollo will prepare IRWD's standard liquidated damages calculation form in order to assist the District in determining the proper damages to assess for exceeding of the contracted construction time.

Task 2.07 - Opinion of Probable Construction Cost

The cost estimates will be updated at each submittal point as the design is refined and new features are added.

Task 2.07 - Final Design Deliverables

- ➤Ten (10) copies and one (1) compact disc of PDF's of the 60-percent plan set, including Project Manual, Construction Plans, Opinion of Probable Construction Plans, Project Schedule and Liquidated Damages Spreadsheet.
- ➤Ten (10) copies and one (1) compact disc of PDF's of the 90-percent plan set , including Project Manual, Construction Plans, Opinion of Probable Construction Plans, Project Schedule and Liquidated Damages Spreadsheet.
- ➤Ten (10) copies and one (1) compact disc of PDF's and one(1) compact disc of AutoCAD files of the 100-percent plan set, including Project Manual, Construction Plans, Opinion of Probable Construction Plans, Project Schedule and Liquidated Damages Spreadsheet.
- ➤One (1) final set of stamped and signed reproducible plans on mylar and original Project Manual for District signature.
- Carollo will attend a Final Plan Signature Meeting to discuss the final project with the District and answer any remaining questions prior to the bid period.

Task 2.08 - Addenda Preparation and Pre-Bid Meeting

Carollo will assist in conducting one pre-bid meeting, including a site visit with potential bidders. Up to two (2) bid addenda will be prepared to provide information and clarification of the bid documents.

Task 2 Deliverables

≽60-Percent Plan Set

- ≽90-Percent Plan Set
- ➤100-Percent Plan Set
- ▶Final Biddable and Reproducible Plan Set
- ➤ Pre-Bid Meeting Minutes
- ≻Two (2) Addenda

Exhibit B Irvine Ranch Water District Initial Disinfection Facility Sodium Hypochlorite Storage Feed System Final Design Services

Task	Task Description	Meyerhofer	Weishaar	Assistant Engineer	Doering	Doan	Hedlund	Carreon	Designer	Document Processing	Task Hours	Task Subtotal	Reproduction	Task Total
1	Project Management	(1)				2								
1.01	Project Status Reports	0	12	0	0	0	0	0	0	0	12	\$ 2,268	\$.	\$ 2,268
1.02	Meetings and Workshops	14	14	14	4	0	4	4	0	4	58	\$ 10,734	\$ 500	5 11,234
1.03	Quality Assurance/Quality Control	1	18	0	4	0	4	0	0	0	27	\$ 5,143	\$ -	\$ 5,14
	Task Subtotal	15	44	14	8	0	В	4	0	4	97	\$ 18,145	\$ 500	5 18,645
2	Final Design													
2.01	Project Manual	0	8	18	2	8	8	8	0	8	60	5 10,104	S D	\$ 10,104
2.02	Construction Plans	0	24	64	2	36	30	36	140	6	338	\$ 55,358	\$.	5 55,358
2.03	Utility Research	0	2	8	0	0	2	2	0	0	14	\$ 2,374	5 -	5 2,374
2.04	Electrical/Instrumentation	0	4	0	0	0	56	64	140	0	264	\$ 44,016	\$ -	\$ 44,016
2.05	Project Schedule	0	2	8	0	0	0	0	0	0	10	5 1,618	5 -	5 1,618
2.06	Liquidated Damages Spreadsheet	0	0	2	0	0	0	0	0	0	2	5 310	5	5 310
2.07	Opinion of Probable Construction Cost	0	2	8	0	0	0	Q	0	0	10	\$ 1,618	5 -	5 1,618
2.08	Final Design Deliverables													
-	60 Percent Deliverable	0	2	6	0	0	0	0	2	2	12	\$ 1,824	\$ 750	\$ 2,574
	90 Percent Deliverable	0	2	6	0	0	0	0	2	2	12	5 1,824	\$ 750	5 2,574
	100 Percent Deliverable	. 0	2	6	0	0	0	0	2	2	12	5 1,824	5 750	\$ 2,574
	Final Deliverable	0	2	6	0	0	0	0	2	2	12	\$ 1,824	\$ 750	\$ 2,574
2.09	Addenda Preparation & Pre-Bid Meeting	0	5	22	0	4	4	4	0	0	39	\$ 6,623	\$ 250	5 6.873
	Task Subtotal	0	55	154	4	48	100	114	288	22	785	\$ 129,317	\$ 3,250	\$ 132,56
	Hours Total	15	99	168	12	48	108	118	288	26	882			
	Rate	\$ 229	5 189	\$ 155	\$ 189	5 189	5 189	\$ 189	\$ 147	\$ 111				
	Project Subtotal	\$ 3,435	\$ 18,711	\$ 26,040	\$ 2,268	\$ 9,072	\$ 20,412	\$ 22,302	\$ 42,336	\$ 2.886	3	S147.462	\$3,750	\$151,212

Exhibit C Irvine Ranch Water District Initial Disinfection Facility Surge Tank Final Design Services

Task	Task Description	Meyerhofer	Weishaar	Assistant Engineer	Doering	Doan	Hedlund	Carreon	Designer	Document Processing	Task Hours	Task Subtotal	Reproduction	Task Total
2	Final Design													
2.01	Proiect Manual	1	1	4	1	2	2	2	0	2	15	\$ 2.583	\$ -	\$ 2,583
2.02	Construction Plans	1	1	8	1	4	0	0	32	6	53	\$ 7,973	5 -	5 7,973
2.03	Utility Research	0	0	0	0	0	0	0	0	0	0	5 -	5 -	\$.
2.04	Electrical/Instrumentation	1	1	0	0	0	8	8	32	0	50	\$ 8,146	5 -	\$ 8,146
2.05	Project Schedule	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$
2.06	Liquidated Damages Spreadsheet	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	5 .
2.07	Opinion of Probable Construction Cost	0	0	0	0	0	0	0.	0	0	0	\$	1	Ś .
2.08	Final Design Deliverables													-
	60 Percent Deliverable	0	0	0	0	0	0	0	0	0	0	\$ -	S -	\$.
	90 Percent Deliverable	0	0	0	0	0	0	0	0	0	0	\$	Ś .	Ś.
	100 Percent Deliverable	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	5
	Final Deliverable	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$
2.09	Addenda Preparation & Pre-Bid Meeting	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$.
	Task Subtotal	3	3	12	2	6	10	10	64	8	118	\$ 18.702	5 -	\$ 18,702
	Hours Total	3	3	12	2	6	10	10	64	8	118			
	Rate	\$ 229	\$ 189	\$ 155	\$ 189	5 189	\$ 189	5 189	\$ 147	5 111				
	Project Subtotal	\$ 687	\$ 567	\$ 1.860	\$ 378	5 1,134	5 1,890	5 1,890	\$ 9,408	\$ 888		\$18,702	\$0	\$18,702

October 26, 2015

Prepared by: L. Lewis

Submitted by: F. Sanchez/P. Weghorst

Approved by: Paul Cook

ACTION CALENDAR

PROFESSIONAL SERVICES AGREEMENT FOR FATS, OILS AND GREASE PROGRAM

SUMMARY:

IRWD has utilized contract services to administer the District's Fats, Oils and Grease (FOG) program since 2004. In 2014, Environmental Engineering and Contracting, Inc. (EEC) was identified through a competitive process as the only qualified company to provide the services and was issued a purchase order agreement to provide FOG program assistance. Staff has negotiated new rates for ECC to continue providing FOG services through October 2016. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with EEC for FOG program administrative support services in the amount of \$165,950.

BACKGROUND:

When the District initiated its FOG program in 2004, EEC was retained to develop a FOG characterization study. The scope of work for this study included inspection of food service establishments (FSEs), development of hot spot maps, FOG source characterizations and the design of a database management system for the FOG program. The District's FOG program has expanded over the last 10 years and currently has over 1,200 FSEs in the system. EEC's scope of work has evolved to include overall program management, routine FSE inspections and enforcement support.

In September 2014, staff distributed a Request for Proposals (RFP) for FOG services that was sent to six potential service providers. While staff received three proposals, two of the firms were found to have not met the minimum experience requirements specified in the RFP. Based on this competitive process, ECC was issued a purchase order agreement to perform FOG services. EEC has provided FOG program management services to over 30 cities and sewer collection and treatment districts. The company is also nationally recognized as a FOG control expert and has provided excellent services to the District.

Staff will be conducting an evaluation of the implementation of the FOG program as well as the development of a pre-treatment program prior to the District's biosolids facility coming on line. In the interim and for the next year, staff recommends that EEC continue to provide FOG program support services through the execution of a Professional Services Agreement. A copy of ECC's proposed scope of work and updated rates for the next year is attached as Exhibit "A". Staff considers the negotiated rates to be fair and reasonable.

Action Calendar: Professional Services Agreement for Fats, Oils and Grease Program October 26, 2015
Page 2

FISCAL IMPACTS:

FOG Program Services funding in the amount of \$200,000 is included in the adopted FY 2015-16 operating budget.

ENVIRONMENTAL COMPLIANCE:

Services provided by EEC will be in compliance with the District's FOG Control Program Manual and Grease Control Rules and Regulations that are included in the District's Sewer System Management Plan (SSMP), the District's Rules and Regulations for Use of District Sewerage Facilities and consistent with the State Water Resources Control Board Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, Water Quality Order Number 2006-0003.

COMMITTEE STATUS:

This item was not reviewed by Committee.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC. TO PROVIDE FOG PROGRAM ADMINISTRATION SUPPORT SERVICES IN THE AMOUNT OF \$165,950 FOR THE PERIOD OF NOVEMBER 1, 2015, TO OCTOBER 31, 2016.

LIST OF EXHIBITS:

Exhibit "A" – EEC Scope of Work and Rates

EXHIBIT "A"

Section 3.0 - Scope

3.1 FOG Program Management Support

EEC currently manages and supports FOG control programs for four Southern California agencies, including the District, utilizing comprehensive databases and GIS tools to collect, organize, analyze, and manage FOG data. Having been closely involved in the development and implementation of key FOG program tools and processes, EEC's technical and field staff is thoroughly knowledgeable with the field data acquisition systems and work flows currently employed by the District.

EEC will provide the following as-needed services under this task:

- Collect, organize, and manage the District's FOG Control Program data
- Review FSE inspection results for QA/QC
- Develop reports to summarize inspection results and compliance efforts
- Establish inspection schedules, and coordinate compliance and enforcement tasks with District staff
- Provide as-needed new FSE plan review/plan check support and District staff training
- Conduct regular meetings/calls with District staff to evaluate the FOG Control Program status, provide recommendations, and prioritize project efforts (minimum of bi-weekly)
- Provide monthly reports summarizing activities conducted and recommendations to the District's FOG Program Manager
- Provide follow-up documentation assistance and expertise to the FOG Program Manager
- Manage the FOG geodatabase and GIS files such as map documents
- Monitor the Orange County Health Care Agency's (OCHCA's) inventory of restaurants and append any updates, changes, or additions to the District's FSE inventory
- Obtain data and information to keep the FSE inventory up to date
- As needed, develop and coordinate evaluation of new and emerging grease control technologies, including GRE and chemical/biological additives
- Provide the District with experienced and knowledgeable professional staff
- Provide the district with inspectors equipped with proper identification including contractor badges

Additionally, based on our recognized FOG expertise, EEC is afforded the opportunity to work with agencies across the country, exposing the team to a variety of innovative ideas and concepts that can be shared with the District. EEC also works with some of the District's neighboring agencies and can share field intelligence regarding sewer investigations and FSE issues that might impact the District's programs.

3.2 FSE Inspections and Enforcement

EEC inspectors are fully trained on FOG inspection procedures and the District's specific FOG regulations. To ensure the efficiency, quality and consistency of our inspections, EEC will routinely perform QA/QC of FOG inspectors as well as the inspection data. EEC will closely monitor inspection progress to ensure the FOG control program tasks are on track to meet inspection and follow-up targets. EEC will also work

with the District's FOG Program Manager to evaluate implementation of FOG risk-based inspection prioritization processes to further optimize the District's inspection resources.

EEC will provide the following services under this task:

- Conduct on-site physical inspections of FSEs as determined by the FOG Program Manager (during the District's regular business hours)
- Provide recommendations for enforcement actions and support coordination and execution of these actions
- Provide outreach and educational materials to FSEs
- Provide the District with educational and BMP information
- Promote the importance of kitchen BMPs to the FSE community
- Require inspectors to clearly identify themselves both verbally and with proper identification badges as contract inspectors of the District
- Require inspectors to identify their vehicles as contract vehicles of the District (if requested)
- Coordinate and establish work schedules

Specific FSE inspection categories include the following:

1. Permitting Inspections. EEC will conduct initial permitting inspections for new, change-of-ownership, and remodeled FSEs. Through initial inspections, also referred to as FSE characterization, EEC will identify the type of food, cooking equipment, kitchen practices, and grease removal equipment utilized at each new FSE. Each FSE will be provided with educational materials and detailed verbal guidance to help the FSE understand the District's Program and minimize their risk for FOG discharge into the District's collection system.



An FSE's Cooking Equipment Inventory Undergoes FOG Inspection

2. Grease Removal Equipment Inspections. EEC will conduct GRE inspections for FSEs with a grease interceptor or grease trap to ensure each device is in good operational and maintenance condition and confirm that appropriate maintenance practices are implemented. The inspections are comprehensive and thorough to support potential enforcement efforts in the future.

Specifically, EEC inspectors will conduct the following:

- Measure the layer of floating FOG and settable solids
- Determine conformance with compliance criteria
- Inspect the mechanical condition of the GRE
- Review the maintenance logs and record the last pump-out date
- Evaluate GRE pumping record-keeping
- Document and capture photographic evidence of all violations



Grease Interceptor is Opened for Inspection

3. Best Management Practice Inspections. Having conducted over 20,000 kitchen BMP inspections, EEC understands the importance of educating FSEs on proper BMPs. EEC will conduct BMP inspections to

evaluate compliance with all required kitchen BMPs, including employee education and training practices. These inspections also provide an opportunity to provide new program educational materials.

Specifically, EEC inspectors will assess the following:

- Removal of food grinder
- Drain screens installed/maintained
- Kitchen signage (BMP poster) posted
- Scraping practices
- Food waste disposal practices
- Emergency spill response materials
- Utilization of drainage additives
- Segregation and proper storage of waste cooking oil
- Grease collection log maintained
- Employee training log maintained
- Lateral cleaning and spill log maintained



A Kitchen BMP Violation is Identified During Inspection

4. Compliance Inspections. ECC will conduct follow-up inspections for non-compliance issues as required by the District's FOG Program Manager. This may include issuance of notices of violation (NOV) to FSEs that are found to be in non-compliance of the FOG control regulations.

EEC will assist the District in managing enforcement actions for violations of the District's Rules and Regulations. For any FSE or critical source facility identified with deficiencies, EEC will meet with FSE managers/owners or property owners to discuss violations and enforcement and to help develop an appropriate corrective action plan to achieve and maintain compliance. Based on the results of follow-up inspections and issued notices of non-compliance, EEC will review, provide recommendations, and assist the District with elevated enforcement actions required as a result of violations of the District's FOG Rules and Regulations.

EEC understands the District's FSE inventory database and key FSE details necessary to determine each FSE's potential to discharge FOG into the sewer system (e.g., cooking equipment). Inspection results collected in the field are recorded in the geodatabase and used to determine and monitor each FSE's compliance status and history.



A Probe is Used to Measure the FOG Accumulation in a Grease Interceptor

3.3 Safety

EEC inspectors are extensively trained in inspection safety and have an impeccable safety track record. EEC inspectors also receive training in SSO response procedures and are readily familiar with the SSO emergency response procedures implemented by the District.

With over 20,000 facility and grease interceptor inspections conducted to date, EEC understands the potential hazards associated with conducting facility inspections. EEC inspectors adhere to safety protocols and safety equipment including, but not limited to, the following:

- Anti-slip steel toed boots
- Latex gloves
- Safety glasses
- Long pants
- Traffic safety vests
- Traffic cones
- Hand sanitizer

If requested, EEC can develop a Site Safety Plan specific to this project. The Site Safety Plan would outline the steps to be taken during each inspection to not only protect inspectors/public from harm, but also satisfy the District's specific requirements (if any). Such a Site Safety Plan would be kept in each inspection vehicle and provided to the District upon request.

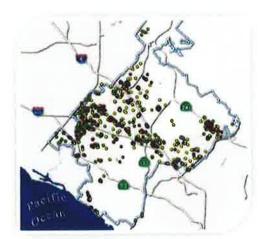
3.4 Mapping Services

EEC fully understands the District's use of GIS and other systems to manage FOG program data and inspection tasks. EEC understands that the District is requesting mapping and GIS support services to continue use of these systems.

Since 2004, EEC has provided GIS support services to the District, including determining the most effective way to manage the District's FOG control program. EEC created and implemented the District's Esri's ArcGIS and MS Access system to manage inspections of the more than 1,000 FSEs and more than 400 GREs.

EEC will provide the following services under this task:

- Manage and maintain FSE/GRE geodatabase
- Review FOG inspection results
- Generate reports and inspection statistics
- Maintain FSE and GRE feature classes
- Maintain map documents for Esri software



FSEs Located in IRWD's Service Area

- Conduct geospatial analysis to determine FSE inspection priorities
- Provide GIS support as specified by the District
- Identify and address problems or errors in the GIS

The FOG program Geodatabase is also used to manage issuance of NOVs and subsequent compliance inspections. Using these GIS and database resources developed in-house, EEC will continue to provide effective and efficient inspection management services for the District.

EEC has also developed customized tools to query and review copious amounts of FSE data for analysis and reporting. For example, an inspector or manager can find an SSO or sewer hotspot in the GIS and readily identify the associated FSEs. Hyperlink tools in the GIS are provided to quickly query the FSE database to return pertinent information related to an FSE's inspection history, site pictures, and inspection reports.

3.5 Waste Discharge Requirement and Sewer Management Plan Support

EEC staff has comprehensive experience in conducting a wide range of program audits, including sewer system management plan (SSMP) audits. This broad experience has provided EEC with a unique insight to both a regulator's view on conducting audits and a regulated entity's view on being audited. Since the

issuance of Order No. R8-2002-0014 by the California Regional Water Quality Control Board in 2002, and subsequent issuance of the current Statewide General Waste Discharge Requirements (SSS WDR) for Sanitary Sewer Systems (Order No. 2006-0003-DWQ) in 2006, EEC applied its insight to developing and implementing practical and defensible programs designed to reduce SSOs. EEC can provide continued support to the District with WDR and SSMP development and implementation as requested.

EEC continues to serve local governments in developing, implementing, and monitoring sensible sewer system management programs tailored to address specific local conditions and ensure



An SSO is Simulated During SSO Response Training

compliance with applicable WDRs. EEC has extensive expertise in key SSO mitigation strategies, including FOG control programs, overflow emergency response plans (ERP), and SSMP performance assessment and audits. EEC continues to assist cities and independent special districts, including the Cities of Santa Ana, La Habra, Buena Park, El Segundo, and Anaheim, as well as CMSD, with development, implementation, and/or audit of their key SSMP strategies.

As needed, EEC can support the District with the on-going efforts toward SSMP assessment and enhancement to ensure continued compliance with the SSS WDR. EEC's service capabilities range from cursory review/discussion of specific SSMP elements to a comprehensive audit and update of the entire SSMP program.

3.6 Training and Miscellaneous Support

EEC developed and currently conducts California's only Grease Interceptor Inspector Training Workshop for the California Water Environment Association (formerly conducted for CalFOG). To date, EEC has conducted seven workshops and trained more than 400 inspectors. EEC most recently provided specialized training for City Redondo Beach and South San Luis Obispo Sanitation District inspectors as well as City of Santa Ana Code Enforcement staff.

As needed, EEC can provide the District with FOG Program and inspection training services tailored to suit the District's current program needs as well as supporting the District's long-term program goals.

3.7 Summary of Deliverables

Based on the scope of services, the following deliverables are anticipated for this project:

- Up-to-date insurance certificate(s) addressing all District requirements including Worker's Compensation, General Liability, and Auto Liability (current District's Insurance certificate (Attachment C)
- FOG program protocols assessment reports and recommendations (as needed)
- Monthly inspection status reports summarizing inspections conducted, compliance status, and recommendations for follow-up and enforcement actions
- Quarterly program review/status meetings with District staff
- FOG outreach and educational materials procurement support and distribution (as needed)
- Updates of FSE inspection database with new FSE data from a variety of sources (as needed)
- FOG program initiative recommendations (as needed)
- Evaluation/assessment reports for emerging GRE devices and additives (as needed)
- Mapping document updates and recommendation reports (as needed)
- Work flow development recommendations (as needed)
- Memoranda/reports on emerging WDR/SSMP requirements (as needed)
- SSMP internal audit report and recommendations (as needed)
- Classroom and field training on a wide range of FOG/WDR/SSMP/GIS/CMMS topics (as needed)
- Monthly Invoices including number of hours by labor category and hourly rates (as included in the fee proposal)

Request for Proposal (RFP #cp100114) Fats, Oils, and Grease (FOG) Program Services Attachment "A"

Fee Schedule

The charge for all time required for the performance of the Scope of Work, including administrative, office, field, and travel time will be billed at the hourly rate according to the labor tasks set forth below:

Administrative Services	Hourly Rate	\$ 150
FOG Program - Analytical Services	Hourly Rate	\$ 180
FOG Program - Plan Check Review	Hourly Rate	\$ 150
FSE Field Inspections	Hourly Rate	\$ 105
FSE Compliance Inspections	Hourly Rate	\$ 115
GIS/Information Technology	Hourly Rate	\$ 135
Emergency Response – Business hrs.	Hourly Rate	\$ 125
Emergency Response – Non-Business hrs.	Hourly Rate	\$ 200

Table 3-1, Projected Costs for 11/2015 - 10/2016

Labor Task	Projected Hours	Hourly Rate	Projected Year 1 Cost
Administrative Services IRWD customer call support and coordination FSE inspection planning and coordination	70	\$150	\$10,500
 FOG Program – Analytical Services Program development and management support Enforcement recommendations and support Special project coordination and planning support Program status updates/meetings 	90	\$180	\$16,200
FOG Program – Plan Check Review New FSE plan review support Plan processing and comment letter support	50	\$150	\$7,500
Field Inspections New FSE Initial Inspections Best Management Practice (BMP) inspections Grease Removal Equipment (GRE) inspections Inspection data processing	840	\$105	\$88,200
Compliance Inspections Non-compliance follow-up inspections Non-compliance coordination and data processing	240	\$115	\$27,600
GIS/Information Technology Mapping support Data/database management support Status report support	70	\$135	\$9,450
Emergency Response – Business hours • Private/Public SSO follow-up	20	\$125	\$2,500
Emergency Response – Non-business hours • Private/Public SSO follow-up	20	\$200	\$4,000
Projected To	tal (11/1/2015 through	10/31/2016)	\$165,950

October 26, 2015

Prepared by: B. Stewart/S Malloy

Submitted by: K. Burton

ACTION CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES CONTRACT CHANGE ORDER AND VARIANCE

SUMMARY:

Filanc/Balfour-Beatty (FBB) is constructing the Michelson Water Recycling Plant (MWRP) Biosolids and Energy Recovery Facilities (Biosolids Project). Contract Change Order (CCO) No. 34 includes several additions and credits. The additions include changing the knife gate valves manufacturer and providing addressable smoke detectors. The credits include IRWD costs related to overtime inspection, special inspection for soil and structural support, and review of submittals after the second time. Variance No. 4 with Black & Veatch will provide supplemental start-up services. Staff recommends that the Board:

- Approve CCO No. 34 in the amount of \$164,775.28 with FBB for the MWRP Biosolids and Energy Recovery Facilities project, and
- Authorize the General Manager to execute Variance No. 4 in the amount of \$370,570 with Black & Veatch for providing supplemental start-up services for the MWRP Biosolids and Energy Recovery Facilities project.

BACKGROUND:

Construction of the Biosolids Project was awarded to FBB in March 2013 in the amount of \$163,513,307. The Biosolids Project will provide biosolids digestion, dewatering, energy production, and on-site sludge drying. The project includes excavation for subsurface structures; installation of 3,009 foundation piles; three egg-shaped digesters; a state-of-the-art odor control system; a biogas conditioning system and power generation using micro-turbines; a fats, oil and grease receiving station; and new utility services. These facilities are being constructed on the land north of IRWD's existing Operations Center, maintenance shops, water quality laboratory, and warehouse.

CCO No. 34:

Staff negotiated with FBB to resolve several items contained in CCO No. 34. The items are as follows:

Changing of Manufacturer of Knife Gate Valves: FBB submitted high pressure Orbinox knife gate valves that minimally met the requirements of the contract specifications. The project includes eight 10-inch electrically-actuated, one 10-inch manually-actuated, and one 16-inch manually-actuated knife gate valves that will handle sludge. Staff and Black & Veatch reviewed FBB's proposed knife gate valve along with an alternative knife gate valve from DeZurik.

Action Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities Contract Change Order and Variance

October 26, 2015

Page 2

Over time, sludge could accumulate inside the Orbinox valve that was submitted, resulting in the knife gate valve being plugged. The DeZurik valve has a mechanism that prevents the sludge from accumulating inside the valve. If the Orbinox valves were to be installed, it would require significant effort from staff to ensure that each valve remained operable. The DeZurik valves have a proven and lengthier track record for use in handling sludge and are manufactured of heavier duty material. After a comprehensive life cycle cost analysis, staff determined that the DeZurik valves were the superior product. Therefore, staff directed FBB to provide the DeZurik valves. This item is for the cost differential between the two valves. The avoided cost of maintenance for the Orbinox valve over a 25-year period is greater than the differential cost. The cost of this change is \$275,954.90.

Addressable Smoke Detectors: After an Orange County Fire Authority review of the contract drawings, it was decided that 15 non-addressable smoke detectors needed to be changed to addressable. When a non-addressable smoke detector is activated, a general alarm is sent. The alarm from a non-addressable smoke detector does not provide a specific location of the potential danger. Alarms from an addressable smoke detector will provide the specific location of the detector, allowing the fire authority to respond quicker and more accurately to the alarm. This change also follows the Fire Authority's standard. This item includes the cost differential between the two types of detectors along with associated cable, wires, and SCADA programming. The cost of this change is \$38,650.88.

Credit for IRWD Review of Submittals after Two Reviews: The contract documents require that the contractor reimburse IRWD for the review costs of submittals that have been submitted more than two times. The cost included in this item is for the time required for the design engineer to review the submittals after the second time. The cost credit is through May 31, 2015. The credit for this item is <\$39,502.50>.

Credit for IRWD-Incurred Costs for Inspection:

- A. FBB requested to work outside of the contract hours of 7:00 a.m. and 3:30 p.m. in an attempt to regain project schedule. The credit is through May 31, 2015. The credit for this item is <\$80,850>.
- B. Special inspections for the installation of certain geotechnical activities (such as backfill) and installation of structural anchors were required to be provided by FBB. Staff waived these requirements in exchange for a credit and performed the inspection with on-site inspection staff. The credit for these inspections is <\$27,500>.

Credit for Changes in Low Voltage SWGR-14 Circuit Breaker: The circuit breaker requirements changed from 2,000 amp-frame/2,000 amp-trip to 800 amp-frame/500 amp-trip. This credit is for the cost differential between the two breakers. The credit for this item is <\$1,978>.

None of the items included in this change order result in any time extension to any of the milestones or completion date.

Action Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities Contract Change Order and Variance

October 26, 2015

Page 3

Staff recommends the Board approve CCO No. 34 in the amount of \$164,775.28 which is attached as Exhibit "A". The Construction Change Order Summary is attached as Exhibit "B".

Variance No. 4:

The Biosolids project is complicated and includes the installation of many pieces of mechanical and electrical equipment, all of which require a series of tests during start-up activities. The level of complexity requires a breadth and depth of knowledge from experienced personnel to aid staff during the start-up and commissioning phase. Staff requested the design engineer, Black & Veatch, to submit a proposal to provide supplemental start-up monitoring services. The Black & Veatch proposal includes 14 months of full-time equivalent (FTE) for a start-up engineer to work on-site. Black & Veatch will help ensure that FBB successfully completes the start-up activities in a timely manner.

The scope of work of the supplemental start-up services includes:

- Develop a detailed deliverables list and turnover documents for FBB. Review these
 documents and ensure that they are archived in the project document control system.
 Maintain a checklist of current completion status;
- Develop and maintain a detailed schedule for FBB and MMC/Delta (system integrator under contract with FBB) start-up activities;
- Check progress on FBB start-up activities and prepare weekly progress reports;
- Witness startup activities in the field related to mechanical equipment, electrical power, I&C, and programming;
- Conduct weekly meetings with staff to review start-up activity status and address any questions and concerns from IRWD operations staff;
- O&M Specialists will attend weekly project construction meetings to coordinate with IRWD, FBB, MMC/Delta and other project stakeholders;
- Communicate and coordinate with the Black & Veatch commissioning team prior to the start of commissioning activities;
- Advise IRWD of any issues that need to be resolved and perform special tasks directed by IRWD related to FBB start-up activities; and
- Attend special meetings as directed by the IRWD.

Staff recommends that the Board authorize the General Manager to execute Variance No. 4 with Black & Veatch in the amount of \$370,570, which is attached as Exhibit "C".

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 21146 (4286) is included in the FY 2015-16 Capital Budget. The existing budget is sufficient to fund CCO No. 34 and Variance No. 4.

Action Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities Contract Change Order and Variance October 26, 2015
Page 4

ENVIRONMENTAL COMPLIANCE:

The MWRP Biosolids and Energy Recovery Facilities is subject to the California Environmental Quality Act (CEQA) and in conformance with the California Code of Regulations Title 14, Chapter 3, Article 7, a Supplemental Environmental Impact Report (SEIR), SCH # 2011031091, was certified by IRWD at its October 22, 2012 meeting. The City of Irvine Planning Commission approved a conditional use permit for the IRWD Biosolids Project at its December 6, 2012 meeting.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 34 IN THE AMOUNT OF \$164,775.28 FOR CHANGING THE MANUFACTURER OF KNIFE GATE VALVES AND PROVIDING ADDRESSABLE SMOKE DETECTORS, AND CREDITS THAT INCLUDE IRWD COSTS RELATED TO OVERTIME INSPECTION, SPECIAL INSPECTIONS AND REVIEW OF SUBMITTALS AFTER THE SECOND TIME WITH FILANC/BALFOUR-BEATTY; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 4 IN THE AMOUNT OF \$370,570 WITH BLACK & VEATCH FOR PROVIDING SUPPLEMENTAL START-UP SERVICES FOR MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES, PROJECT 21146 (4286).

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 34 with FBB

Exhibit "B" – Construction Change Order Summary

Exhibit "C" - Variance No. 4 with Black & Veatch

CON EXHIBIT "A"

IRVINE RANCH WATER DISTRICT

15600 Sand Canyon Avenue Irvine, California 92618



C.O. No. 34 Final

Project No. 21146 (4286)

(949) 453-5300 MWRP Biosolids and Energy Recovery Facilities

ngineer or Consuling Engineer

Executive Director of Engineering and Water

Engineer - MWRP Construction

Project Title		Date: September 22	2, 2015
THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Credit for Submittal Review After Second Review Through	\$0.00	\$39,502.50	(
05/31/2015 (CR-088) PR 21146 (4286) Task 1065			
2. Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089)	\$0.00	\$80,850.00	(
PR 21146 (4286) Task 3520	\$0.00	\$27,500.00	(
3. Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-089A) PR 21146 (4286) Task 1065	\$0.00	\$27,500.00	· ·
4. Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286)	\$275,954.90	\$0.00	(
Task 3520			
5. Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-	\$0.00	\$1,978.00	(
163) PR 21146 (4286) Task 3510	#20.650.00	\$0.00	(
6. Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	\$38,650.88	\$0.00	
1. The project completion date of October 28, 2016 is unchanged by this Change Order. TOTAL	\$314,605.78	\$149,830.50	(
IOIAL	ψ51-4,005.70	Ψ119,030.30	
			DAYS
1. NET AMOUNT THIS CHANGE ORDER =		\$164,775.28	0
2. ORIGINAL CONTRACT AMOUNT =		\$163,465,940.00	1,278
3. TOTAL PREVIOUS CHANGE ORDERS =		\$3,533,078.26	0
4. TOTAL BEFORE THIS CHANGE ORDER (2+3) =		\$166,999,018.26	1,278
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4) =		\$167,163,793.54	1,278
We hereby agree to make the above change subject to the terms of this chaOne Hundred Sixty-Four Thousand Seven Hundred			Dollars
	/4	1/	
Date Filanc/Balfour Beatty, JV Contractor	Frank	Harry Cosmos, President	
SIGNATURE DATE		AL LEVEL REQUIRE	D .

NOTE: The documents supporting this Change Order, including any drawings and estimates of cost, if required are attached hereto and made a part hereof. This Change Order shall not be considered as such until it has been signed by the Owner and the Contractor. Upon final approval, distribution of copies will be made as required. The parties mutually agree the pricing set forth in this Change Order are complete and fair compensation for the entirety of the work authorized under this Change Order and that no additional compensation is warranted nor shall it be allowed.

Date

Date

Date

Date

13 -15

Department Director Approval Required

General Manager Approval Required

Board Approval Required

By

Executive Department Director Approval Required

Purchase Order No.

Date

CHANGES: All workmanship and materials called for by this Order shall be fully in accord with the original Contract Documents insofar as the same may be applied without conflict to the conditions set forth by this Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

Quality

General Manager

						Contract An	nount				Contr	act Days		Original Completio n Date:
							Original Contra	ct Amount:	\$163,465,940.00		Ong	inal Days	1,278	10/28/2016
Change O	der Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completio n Date
ī	Approved by Exe. Director of Engineering and Water Quality Approved on October 24, 2013 1,1 Modifications to Road to Development Area - Delete AC to Triangle, add AB to Michelson (CR-004)	A	IRWD	\$ 20,202 42	\$20,202 42			0 01%		0	0	0		10/28/2016
2	Approved by Exe. Director of Engineering and Water Quality Approved on November 13, 2013 2 1 Street Light Conduit Modifications (CR-007)	В	IRWD	\$ 12,475.08	\$12,475 08	\$20,202 42	\$32,677 50	1	\$163,498,617 50	0	0	0		10/28/2016
3	Approved by Board of Directors Approved on March 10, 2014 3 1 Bid Quantity Adjustment of Bid Item 8 6 Pre-Drill	В	FBB	\$ 745,503.00	\$745,503 00	\$32,677 50	\$778,180 50	0.48%	\$164,244,120 50	0	0	C	1,278	10/28/2016
4	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 4.1 Installation of Five Additional Groundwater Wells and Monitoring – (CR-006) PR 21146 (4286) Task 3505 4.2 Brace Bay Modifications at the FOG Station – (CR-015) PR 21146 (4286) Task 3505 4.3 Grounding Extension at Nitrogen and Mineral Oil System (CR-025) PR 21146 (4286) Task 3510	A C C	IRWD FBB IRWD	\$11,047 81 \$2,977 81 \$9,003 60	\$23,029 22	\$778,180 50	\$801,209 72	0 49%	\$164,267,149 72	0 0	0	C		10/28/2016
5	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 5.1 Unidentified Utility - Meter Shop Discharge (CR-008) PR 21146 (4286) Task 3505 5.2 Connection Beam Modifications at Solids Handling Facility (CR-014) PR 21146 (4286) Task 3235 5.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505	B C C	IRWD FBB FBB	\$15,225 75 \$8,270 86 \$1,355 12	\$24,851 73	8 \$801,209 72	2 \$826,061 45	0 51%	\$164,292,001 45	0	0		1,278	10/28/2016
6	Approved by General Manager Approved on March 20, 2014 6.1 Additional Costs to Install Piles to the Design Tip (CR-033) PR 21146 (4286) Task 3505	В	FBB	\$31,815.00	\$31,815.00	\$826,061 45	\$857,876 45	0.52%	\$164,323,816 45	0	0 0			10/28/2016
7	Approved by Exe Dir of Eng & Water Quality Approved on April 21, 2014 7 I Meter Shop Discharge Pipe Leak Investigation and Repair (CR-013) PR 21146 (4286) Task 3505 7.2 Additional Reinforcement and Lifting Eyes for Removable Slabs at Solids Handling Building (CR-021) PR 21146 (4286) Task 3505 7.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505Additional Conductance Probe Materials for Relay Level Switches for Various Sumps Located at the Microturbine Area PR 21146 (4286) Task 3510	B C C	IRWD FBB FBB	\$2,542 00 \$14,059 00 \$8,124 00	\$24,725 00	\$857,876 45	\$882,601.45	0 54%	\$164,348,541.45	0	0		1,278	10/28/2016

1						Contract Ar						act Days		Original Completio n Date:
							Original Contra		\$163,465,940 00	-	Orig	mal Days	1,278	10/28/2016
Change	• Order Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completio n Date
8	Approved by General Manager Approved on April 21, 2014 8.1 Cost Sharing for Project Partnering Credit for Primavera 7.0 Project Portfolio Management Software (CR- 8.2002) PR 21146 (4286) Task 3235 8.3 Deletion of Concrete Pad near Development Area (CR-004A) PR 21146 (4286) Task 3235 8.4 Deletion of Ground Test Device (CR-034) PR 21146 (4286) Task 3210 8.5 Deletion of Existing T-4 Switchgear Level Indicating Switch (CR-035) PR 21146 (4286) Task 3210 8.6 Change to NEMA 4X Panels and Modification to NEMA 4X Bar Graph Display (CR-046) PR 21146 (4286) Task 3210	A A A A A	IRWD IRWD IRWD IRWD IRWD	(\$14,611 00) (\$2,700 00) (\$3,865 00) (\$15,579 00) (\$9,167 00) (\$4,068 00)	(\$49,990 00)	\$882,601 45			\$164,298,551 45	0 0 0 0 0	0	0		10/28/2016
9	Approved by Exe Director of Eng & Water Quality Approved on May 31, 2014 9.1 Additional Circuits for Gas Monitors and Re-route of Conduits in Solids Handling Facility (CR-028) PR 21146 (4286) Task 3510 9.2 Cantilevered Beam Support Modifications in the Solids Handling Facility (CR-049) PR 21146 (4286) Task 3505 9.3 Additional Ethernet Switches (CR-062) PR 21146 (4286) Task 3510	C C	FBB FBB IRWD	\$1,187 49 \$4,605 30 \$19,047 38	\$24,840 17	\$832,611 45	5 \$857,451 62	0 52%	\$164,323,391 62	0	0	C	1,278	10/28/2016
10	Approved by Exe. Director of Eng. & Water Quality Approved on May 31, 2014 10.1 Additional Grace Ports for Various PLCs (CR-030) PR 21146 (4286) Task 3510 10.2 Provide H-20 Rated Hatches at WAS Pump Station and Valve Vault (CR-061) PR 21146 (4286) Task 3505	c c	IRWD IRWD	\$8,580 62 \$12,818 37	\$21,398 99	\$857,451 62	\$878,850 61	0 54%	\$164,344,790 61	0	0 0	.0	1,278	10/28/2016
11	Approved by Exc. Director of Eng. & Water Quality Approved on June 4, 2014 11.1 Waste Activated Sludge (WAS) Pump Station Structural Modifications (CR-023) PR 21146 (4286) Task 3505 11.2 Removable Slab Modifications on the Second Floor of Solids Handling Building (CR-064) PR 21146 (4286) Task 3505	C C	IRWD IRWD	\$12,905 49 \$11,834 27	\$24,739 76	\$878,850 61	\$903,590.37	0 55%	\$164,369,530 3	#REF! 0 0	d	#REF!	#REF!	10/28/2016

						Contract Arr	nount				Contr	act Days		Original Completion Date:
							Original Contra	ct Amount:	\$163,465,940,00		Orig	inal Days	: 1,278	10/28/201
Change Orde	er Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days		Cum	Revised Total Contract Days	Revised Completion
12	Approved by Board of Directors				\$156,580 22	\$903,590.37	\$1,060,170.59	0.65%	\$164,526,110 59	0	0	(1,278	10/28/2010
12	Approved on July 21, 2014 1 Final Bid Quantity Adjustment for Bid Item No. 5.2 – Undocumented Fill (suitable) – Remedial Grading – Remove and Re-compact a net increase of 8,104.7 CY from 51,700 CY to 59,804.7 CY at \$5/CY PR 21146 (4286) Task 3505	В	N/A	\$40,523 37						D				
12	2 Final Bid Quantity Adjustment for Bid Item No. 5.5 - Undocumented Fill (not suitable) - Remedial Grading - Remove and Export Offsite, a net increase of 60 CY, from 1,800 CY to 1,860 CY at \$25 /CY PR 21146 (4286) Task 3505	В	N/A	\$1,500,00						0				
12	3 Final Bid Quantity Adjustment for Bid Item No. 5 6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF, PR 21146 (4286) Task 3505	В	N/A	(\$2,165 60)						0				
12	4 Final Bid Quantity Adjustment for Bid Item No. 5.6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF PR 21146 (4286) Task 3505	В	N/A	(\$6,523 33)						0				
12	5 Final Bid Quantity Adjustment for Bid Item No 5 8 - Undocumented Fill Deep Foundations - Removal, a net increase of 966 CY, from 21,650 CY to 22,616 CY at \$5.50/CY PR 21146 (4286) Task 3505	В	N/A	\$5,313 00						0				
12	6 Final Bid Quantity Adjustment for Bid Item No. 5.9 - Alluvium - Remedial Grading - Removal and Export Offsite, a net increase of 2,076 CY, from 28,154 CY to 30,230 CY at \$35/CY PR 21146 (4286) Task	В	N/A	\$72,665 98						0				
12	7 Final Bid Quantity Adjustment for Bid Item No. 5 10 - Undocumented Fill Deep Foundations - Compaction of stockpiled materials, a net increase of 3,117 CY, from 11,400 CY to 14,517 CY at \$15/CY PR 21146 (4286) Task 3505	В	N/A	\$46,755 00						0				
	8 Final Bid Quantity Adjustment for Bid Item No. 5.11 - Undocumented Fill - Deep Foundations - Export excess offsite a net decrease of 2,151 CY, from 10,250 CY to 8,099 CY PR 21146 (4286) Task 3505 9 Final Bid Quantity Adjustment for Bid Item No. 5.12 - Geotextile Fabric	В	N/A N/A	(\$30,114 00) \$5,530.80						0				
	Deep Foundations, a net increase of 9,218 SF, from 51,500 SF to 60,718 SF at \$0 60/SF PR 21146 (4286) Task 3505													
12 1	0 Final Bid Quantity Adjustment for Bid Item No. 5.13 - Aggregate Base - Deep Foundations, a net increase of 513.2 CY, from 2,860 CY to 3,373 2CY at \$45/CY. PR 21146 (4286) Task 3505	В	N/A	\$23,095 00						0				
13	Approved by Exe. Director of Engineering & Water Quality Approved on July 10, 2014 1 Modifications to Switchgear 16 (CR-070) PR 21146 (4286) Task 3510	A	FBB	\$10,129 18	\$10,129 18	\$1,060,170,59	\$1,070,299 77	0.65%	\$164,536,239 77	0	0) 1,278	10/28/201
14	Approved by General Manager Approved on June 24, 2014 Slide Gates Clarification Regarding Actuators (CR-039) PR 21146 (4286) Task 3520) A	IRWD	\$44,543,19	\$44,543 19	\$1,070,299.77	\$1,114,842.96	0 68%	\$164,580,782.96	0	0		1,278	10/28/201

							Contract An	nount				Contr	act Days		Original Completion n Date:
Change	Order	Description	Category	IRWD or	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Original Contra Cumulative Total of Change Orders	ct Amount: % of Original Contract	\$163,465,940.00 Revised Contract Amount	Change Order	Previous Change	Cum Total C O	1,278 Revised Total Contract	Revised Completio
-	- 4				1				Amount		Days	Orders	days	Days	n Date
15	15_1	Approved by General Manager Approval on July 31, 2014 Provide Masonry Shelf Angle at Digester Control Building (CR-031) PR 21146 (4286) Task 3505 Beam Size Increase for Monorail Runway in Solids Handling Building -	c c	FBB FBB	\$27,543 19 \$1,200 47	\$45,214 40	\$1,114,842 96	\$1,160,057 36	0.71%	\$164,625,997.36	0	0	0	1,278	10/28/2016
		Upsize Odor Control Circulation Pump Motor Disconnects (CR-082) PR	В	FBB	\$1,184 83						0				
	15 4	21146 (4286) Task 3510 Additional Deck Support for the Solids Handling Building Roof (CR-044)	С	FBB	\$15,285 91						0				
16	16.1	PR 21146 (4286) Task 3505 Approved by E&O Committee Approved on August 19, 2014 Installation of Level 3 Diesel Particulate Filter (DPF) on the Standby Generator - (CR-073) PR 21146 (4286) Task 3520	В	IRWD	\$62,037 10	\$62,037 10	\$1,160,057 36	\$1,222,094 46	0 75%	\$164,688,034,46	0	0	С	1,278	10/28/2010
17		Approved by Board of Directors Approved on August 25, 2014 Modifications to Switchgear 16 (CR-070A) PR 21146 (4286) Task 3510	A	FBB	(\$106,241.99)	(\$106,241.99)	\$1,222,094 46	\$1,115,852.47	0 68%	\$164,581,792.47	0	0	C	1,278	10/28/201
18		Approved by Board of Directors Approved on August 25, 2014 Stormwater Drainage System Modification (CR-017) PR 21146 (4286)	A	IRWD	\$108,087.55	\$108,087.55	\$1,115,852.47	\$1,223,940 02	0.75%	\$164,689,880 02	0	0 0	(1,278	10/28/201
19	19 1 19 2 19 3	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2014 Modification to Switchgear 16 (CR-070B) PR 21146 (4286) Task 3510 Alluvium Removal Due to 36-inch Storm Drain Installation (CR-085) PR 21146 (4286) Task 3520 Additional Structural Support for Fats, Oils, and Grease (FOG) Grinders (CR-081) PR 21146 (4286) Task 3505 Portable Lift Truck for 480V ABB Breakers (CR-108) PR 21146 (4286)	A B C	IRWD N/A FBB IRWD	\$1,125.75 \$14,140.00 \$8,323.99 \$2,625.12	\$72,572.86	\$1,223,940 02	2 \$1,296,512 88	0 79%	\$164,762,452.88	0 0	0 0	, c	1,278	10/28/201
		Task 3510 Retaining Wall North and West of Biosolids Site (CR-010) PR 21146 (4286) Task 3505	В	IRWD	\$46,358 00						0				
20	20 1 20 2	Approved by Executive Director of Engineering & Water Quality Approved on November 19, 2014 Nitrogen Slab Modifications (CR-052) PR 21146 (4286) Task 3505 Additional Conduits and Circuits for the Access Control Systems for the Solids Handling Building and the Digester Control Building (CR-082) PR		IRWD IRWD	\$24,855.80 \$3,412.13	\$54,485 63	\$1,296,512.88	3 \$1,350,998 51	0 83%	\$164,816,938.51	0	0 0	(1,278	10/28/201
	20.4	Digital Power Meters Change for SWGR-14 and SWGR-15 (CR-109) PR 21146 (4286) Task 3510 Truck Unloading Panel Modifications (CR-115) PR 21146 (4286) Task	A	IRWD IRWD	\$3,863 22 \$12,843,50						0				
	20 5	3510 Switchgear SWGR-14 Modifications (CR-116) PR 21146 (4286) Task 3510	A	IRWD	\$9,510.98						0				
21	21 1 21 2	Approved by General Manager Approved on January 30, 2015 Additional Anchorage for Methane Digesters (CR-051A) PR 21146 (4286) Task 3520 Additional Input/Outputs Review of Master I/O List (CR-136) PR 21146 (4286) Task 3510	В	FBB FBB	\$92,367 44 \$6,138 75	\$ 98,506 19	\$1,350,998,5	1 \$1,449,504 70	0 89%	\$164,915,444 70	0	0		1,278	10/28/201

						Contract An	nount				Contr	act Days		Original Completion n Date:
							Original Contra		\$163,465,940.00		Orig	inal Davs:	1,278	10/28/201
Change C		Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C.O days	Revised Total Contract Days	Revised Completion n Date
22	Approved by Board of Directors Approved on February 9, 2015 22 1 Electrical Conduit Overfill (CR-055) PR 21146 (4286) Task 3510	С	FBB	\$485,250 28	\$964,324 51	\$1,449,504 70	\$2,413,829 21	1 48%	\$165,879,769 21	0	0	0	1,278	10/28/201
	22.2 Heat Dryer Equipment Escalation Costs (CR-057) PR 21146 (4286) Task 3520	В	FBB	\$333,477 50						0				
	22 3 Glass-lining Sludge Density Meters (CR-067) PR 21146 (4286) Task 3510	A	IRWD	\$71,010.74						0				
	22 4 Switchgear-16 Enclosure (CR-040) PR 21146 (4286) Task 3510	С	FBB	\$56,882.30						0				
	22 5 Propane Gas Tank Foundation Demolition (CR-084) PR 21146 (4286) Task 3505	c	IRWD	\$2,004 98						0				
	22 6 Credit for travel costs related to inspection of centrifuges in Germany (CR-091) PR 21146 (4286) Task 3520	A	IRWD	(\$5,573 42)					1	0				
ш.	22.7 Deletion of MMC Switchgear-14 Breaker (CR-092) PR 21146 (4286) Task 3510	A	IRWD	(\$5,032 00)						0				
	22.8 Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510 22.9 Overtime to perform work in the Solids Handling electrical room (CR-	C	IRWD IRWD	\$23,269 61 \$1,384 47						0				
	103) PR 21146 (4286) Task 3510 22 10 Credit for modification to the Uninterruptible Power System (CR-118) PR	A A	IRWD	(\$9,771 72)						0				
11.	21146 (4286) Task 3510 22.11 Addition of Low Voltage Compartment in SCE Switch "C" (CR-160) PR	A	IRWD	\$2,156 20						0				
	21146 (4286) Task 3510 22.12 Addition of input/output points relating to sump pumps located at the	A	FBB	\$9,265.57						0				
23	Solids Handling Building (CR-161) PR 21146 (4286) Task 3510 Approved by General Manager				\$97,005 10	\$2,413,829.21	\$2,510,834.31	1 54%	\$165,976,774.31	0	0		1 070	10/28/201
20	Approved on February 26, 2015				\$97,005.10	52,413,029.21	\$2,310,634.31	1 3470	\$103,970,774.31	u	0	U	1,2/8	10/28/201
	23.1 Additional Steel Reinforcement the Pellet Storage Silos Anchor Bolts (CR-094) PR 21146 (4286) Task 3505	В	FBB	\$5,514.57						0				
	23.2 Differential Pressure Transmitter (CR-094) PR 21146 (4286) Task 3510	A	IRWD	\$2,535.33			1			0				
5 11	23.3 Additional Aluminum Trench Grating in Digester Control Building (CR- 107) PR 21146 (4286) Task 3520	A	IRWD	\$7,552 11						0				
	23 4 Light Weight Concrete for Electrical Conduits Underneath the Solids Handling Building Electrical Room (CR-113) PR 21146 (4286) Task	A	IRWD	\$30,535 94						0				
	23.5 Adding Energyjets Weir Plates to Dewatering Centrifuges – (CR-124) PR 21146 (4286) Task 3520	A	IRWD	\$11,139 25						0				
	23 6 Provide Angle Supports for the Removable Slabs at the Solids Handling Building – (CR-137) PR 21146 (4286) Task 3520	A	IRWD	\$20,671 61						0				
	23 7 Structural Modification at Solids Handling Building – (CR-140) PR 21146 (4286) Task 3520	С	FBB	\$1,109 42						0				
	 23 8 Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 23.9 Steel Joist Framing Modifications at Digester Control Building (CR-151) PR 21146 (4286) Task 3505 	A C	IRWD FBB	\$5,516.45 \$2,286.29						0				
2	23 10 WAS Valve Vault and Piping Modifications (CR-100) PR 21146 (4286) Task 3520	A	IRWD	\$10,144 13						0				
24	Approved by General Manager Approved on March 6, 2015 24 1 Coating of WAS/Primary Sludge Pump Stations & Sludge Wetwells per RFI-0612A (CR-127) PR 21146 (4286) Task 3505	A	FBB	\$99,122.95	\$99,122 95	\$2,510,834 31	\$2,609,957 26	1 60%	\$166,075,897 26	0	0	0	1,278	10/28/2010

						Contract Arr						act Days	1.278	Original Completion n Date: 10/28/201
							Original Contra		\$163,465,940.00		Orig	nal Days		10/28/201
Change Orde	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Davs	Revised Completi n Date
	Approved by Board of Directors Approved on March 23, 2015 1 Lightning Protection for the Methane Digesters (CR-121) PR 21146 (4286) Task 3505 2 Deflagration Quench Tubes outside of the Dryer Room (CR-143) PR 21146 (4286) Task 3505	C B	FBB FBB	\$158,259 68 \$122,316 29					\$166,356,473,23	o 0	0	(1,278	10/28/20
26 26 26 26 26 26 26 26 26 26 26 26 26	Approved by Exe. Dir. Of Engineering & Water Quality Approved on April 14, 2015 UPS and Power Fail Alarms per RFI 357 (CR-056) PR 21146 (4286) Task 1/O Points for Methane Digester Sump Pumps per RFI-356 (CR-077) PR 21146 (4286) Task 3510 Loss of Power Alarms to the SCADA Network per RFI-0393B (CR-093) FOG Flushing and Rock Trap Modifications per RFI-0534 (CR-101) PR Install Grounding Pig Tails in Solids Handling Building Area Electrical Room per RFI 0594 (CR-105) PR 21146 (4286) Task 3510 Additional Pushbuttons, Light and Relays for the FOG Receiving Control Panel (CR-114) PR 21146 (4286) Task 3510 Changes to the HMI Enclosures at the Sludge Receiving Area (CR-133) PR 21146 (4286) Task 3510 Provide Storage Shelf for Keyboard and Mouse to the HMI Enclosures at the Sludge Receiving Area (CR-135) PR 21146 (4286) Task 3510 Dewatering Feed Pump Station Guardrail Additions (CR-142) PR 21146 (4286) Task 3520 Additional I/O Points for PLC-4300 (CR-156) PR 21146 (4286) Task 3510 Shoring Revision to Roof Slab of Dewatering Feed Pump Station (CR-189) PR 21146 (4286) Task 3510 Coating of the Sludge Receiving Bins (CR-199) PR 21146 (4286) Task 3520	C C A A A A A C C B A	FBB FBB IRWD IRWD IRWD IRWD FBB FBB	\$3,646.82 \$6,489.00 \$20,297.16 \$18,093.61 \$1,593.10 \$6,892.40 \$7,114.17 \$1,163.26 \$4,204.00 \$3,035.28 \$1,286.99		\$2,890,533 23	52,965,349.02	1 81%	\$166,431,289 02	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V		1,2/8	10/28/20

							Contract An						act Days		Original Completio n Date:
1								Original Contra		\$163,465,940 00		Ong	inal Days		10/28/2016
Change	Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completion n Date
27	27.2	Approved by Board of Directors Approved on April 27, 2015 Modifications to Human-Machine Interface (HMI) for the Microturbine Area (CR-078) PR 21146 (4286) Task 3510 Modifications to the Piping and Automation Features at Fats, Oils, and Grease (FOG) Facility (CR-129) PR 21146 (4286) Task 3510	A A	IRWD IRWD	\$29,744 43 \$35,771 81	\$107,253 26	\$2,965,349 02	\$3,072,602 28	1 88%	\$166,538,542 28	0	0	C	1,278	10/28/2016
		Structural Support to the Monorail at the Dewatering Feed Pump Station (CR-152) PR 21146 (4286) Task 3505 Two Additional Magnetic Flowmeters at Polymer Feed System (CR-158) PR 21146 (4286) Task 3510	C A	FBB	\$13,697 51 \$9,522 81						0				
	27.5	Modifications to PLCs at Sludge Receiving Area (CR-180) PR 21146 (4286) Task 3510	A	IRWD	\$18,516 70						0				
28		Approved by Exe Dir Of Eng, & Water Quality Approved on May 15, 2015 Decanter Control Panel Modifications (CR-215) Task 3520	С	FBB	\$22,451 01	\$74,550 35	\$3,072,602 28	\$3,147,152 63	1 93%	\$166,613,092.63	0	0	.0	1,278	10/28/201
		Additional Structural Support in the Solids Handling Building (CR-075) Task 3505	C	FBB	\$12,028 44						0				
		Additional Sump Pump Drain Line in the Bulk Polymer Storage Area (CR-119) Task 3520	С	FBB	\$1,433 86						0				
		Install Three 5-inch conduits on Southwest Side of the Biosolids Site (CR-120) Task 3510	С	FBB	\$16,033 58						0				
		Provide Power to Several Instruments Located at the Solids Handling Building and Digester Control Building (CR-154) Task 3520	С	FBB	\$3,454 91						0				
		Install Foam Separator Drain at Digester Control Building (CR-167) Task 3520	С	FBB	\$11,013 75						0				
		Install Support for 14-inch Plug Valve at Centrate Treatment Wetwell (CR 197) Task 3520	C	FBB	\$1,715 20						0				
	28.8	Trench Modifications at the Sludge Cake Load-Out Area of the Solids Handling Building (CR-123) Task 3505	С	FBB	\$6,419 60						0			12.3	
29	29.1	Approved by Board of Directors Approved on June 22, 2015 Foul Air Pipe Supports in the Solids Handling Building Basement (CR- 106) PR 21146 (4286) Task 3520	С	FBB	\$119,937 87	\$225,971.77	\$3,147,152 63	\$3,373,124 40	2 06%	\$166,839,064 40	0	0		1,278	10/28/2010
	29.2	Secondary Circuit Breaker for Transformer T-14 (CR-185) PR 21146 (4286)) Task 3510	A	IRWD	\$106,033 90						0				

						Contract An	nount				Contr	act Days		Original Completion n Date:
	I .						Original Contrac		\$163,465,940.00		Orig	nal Days:	1,278	10/28/201
Change Orde	r Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completion Date
30	Approved by Board of Directors				(\$47,976 59)	\$3,373,124 40	\$3,325,147.81	2 03%	\$166,791,087,81	0	0	0	1,278	10/28/201
30	Approved on July 27, 2015 Credit for Changing Storm Drain line from Ductile Iron to PVC (CR-042) PR 21146 (4286) Task 3520	A	IRWD	(\$1,890 92)						o				
30 2	Installation of Additional Digester Anchorage (CR-051B) PR21146 (4286) Task 3505	В	FBB	\$118,335,54						0			, 1	
30 3	Huber Screens I/O Modifications per RFI-0391 and RFI-0525A (CR-068) PR 21146 (4286) Task 3510	A	IRWD	\$12,579 20						0				
- (1 -)	Credit for FBB's Portion of Partnering (CR-090) PR 21146 (4286) Task Deletion of Waterstops at Methane Digester Complex (CR-102) PR 21146	E A	FBB IRWD	(\$81,948 33) (\$2,505 79)						0				
	5 (4286) Task 3505 Deletion of Bid Item No 18 4 - Computers and Networking Hardware for the Control System (CR-138) PR 21146 (4286) Task 3510	A	IRWD	(\$200,000 00)						0				
	7 Electrical and Gas Modifications (CR-146) PR 21146 (4286) Task 3510	С	IRWD	\$363,978 41						0		0 0		
	8 Credit for Changing Heat Dryer Wet Material Mixer from A24 Steel to A36 Steel (CR-157) PR 21146 (4286) Task 3520	E	FBB	(\$2,392 66)						0				
30 9	Credit for Travel Cost of On-Site Inspection for Acid Phase Digester (CR-175) PR 21146 (4286) Task 3520	В	IRWD	(\$683 39)						0				
30	Heat Dryer I/O Modifications per RFI-0626 (CR-179) PR 21146 (4286) Task 3510	A	IRWD	\$11,191 41						0				
- 1	Decant Trough I/O Modifications per RFI-0979 (CR-202) PR 21146 (4286) Task 3510	A	IRWD	\$9,960 55						0	1 /			
	2 Deletion of Interior Coating of Methane Digesters (CR-188) PR 21146 (4286) Task 3520	A	IRWD	(\$398,571 00)						0				
	Piping Modifications and Addition of Carbon Canisters (CR-218) PR 21146 (4286) Task 3520	A	IRWD	\$88,076 01						0				
	4 Pickling and Passivation of Sludge Mixers (CR-248) PR 21146 (4286) Task 3520	С	IRWD	\$73,997 23										
	5 IRWD Costs Associated to Repairing the Pile and Installing Couplers (CR- 139) PR 21146 (4286) Task 3505	Е	FBB	(\$38,102 85)						0				
31	Approved by Exe. Dir. Of Eng. & Water Quality Approved on July 28, 2015				\$74,999 74	\$3,325,147 81	\$3,400,147 55	2.08%	\$166,866,087 55	C	0		1,278	10/28/20
	Provide Circuit and Breaker for Standby Generator in the Microturbine Area (CR-170) PR 21146 (4286) Task 3510	С	FBB	\$4,296 86						0				
	2 Additional Pipe Support for 14-inch Air Line at the Centrate Facility (CR- 226) PR 21146 (4286) Task 3520	С	FBB	\$893 78						0				
	3 Addition of E-stops (CR-128) PR 21146 (4286) Task 3510 4 Structural Support of Jib Crane at Dewatering Feed Pump Station Stairwell (CR-243) PR 21146 (4286) Task 3520	A C	FBB FBB	\$57,916 71 \$11,892 39						0				
32	Approved by Exe. Dir. Of Eng., & Water Quality Approved on August 31, 2015				\$74,682 96	\$3,400,147 55	\$3,474,830 51	2 13%	\$166,940,770 5	0	0	(1,278	10/28/20
32. 32.	Additional Conduits and Circuits for Fire Alarm in the Solids Handling Additional Davit Bases at Centrate Treatment Facility (CR-111) PR 21146 (4286) Task 3520	A A	IRWD IRWD	\$21,637 57 \$1,809 77						0				
32	3 Additional Fire Alarm Panel in Digester Control Building (CR-169) PR 21146 (4286) Task 3510	A	IRWD	\$25,153 79						0				
1100	4 Modifications to FOG Sump Pumps Controls (CR-177) PR 21146 (4286) Task 3510	A	IRWD	\$5,690 83						0				
	5 Additional Truck Load-out Conveyor Input and Output (CR-201) PR 21146 (4286) Task 3510	A	IRWD	\$2,220 12						0				
1 1 22	6 Additional Spare Conduits in the Microturbine Area (CR-229) PR 21146 (4286) Task 3510 7 Conduits for Electrical Disconnect Switch for Roll-Up Doors of the	A	FBB	\$14,602 41						0				
32	Digester Control Building (CR-230) PR 21146 (4286) Task 3510	A	IRWD	\$3,568 47	B-8					0				

						Contract An	nount Original Contra	ct Amount:	\$163,465,940 00			act Days	1.278	Original Completio n Date: 10/28/2016
Change Orc	der Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		Cumulative Total of Change Orders	% of Original	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum	Revised Total Contract Days	Revised Completio n Date
33	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2015 1 Realignment of 8-inch Reclaimed Water Line at Gate 2 (CR-225) PR 21146 (4286) Task 3520	В	FBB	\$24,017 48	\$58,247.75	\$3,474,830 51	\$3,533,078 26	2 16%	\$166,999,018 26	0	0	.0	- 4	1/0/1900
	 Additional Conduits and Wires for Lighting Circuits to Minimize Voltage Drop (CR-228) PR 21146 (4286) Task 3510 Cable and Conduit Changes at Solids Handling Building and Dewatering Feed Pump Station (CR-231) PR 21146 (4286) Task 3510 	c c	IRWD IRWD	\$32,399 41 \$1,830,86										

						Contract An	nount				Contr	act Days		Original Completion n Date:
	1						Original Contra	ct Amount:	\$163,465,940.00		Ong	inal Days:	1.278	10/28/201
Change Orde	r Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount		Cumulative Total of Change Orders		Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completion n Date
34	Pending Approval by Board of Directors Pending approval on October 26, 2015				\$164,775 28	\$3,533,078 26	\$3,697,853 54	2 26%	\$167,163,793 54	0	0	0	1,278	10/28/201
34	Credit for Third Submittal Review Through 05/31/2015 (CR-088) PR 21146 (4286) Task 1065	В	IRWD	(\$39,502 50)										
34.	Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089) PR 21146 (4286) Task 3520	E	FBB	(\$80,850 00)										
34.3	Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-295) PR 21146 (4286) Task 1065	A	IRWD	(\$27,500 00)										
34.	Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286) Task 3520	E	FBB	\$275,954 90										
34 :	Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-163) PR 21146 (4286) Task 3510	A	IRWD	(\$1,978 00)										
.34.0	Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	В	IRWD	\$38,650 88		-								-

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 224,376.7	200
B - Differing Site Conditions C - Design Oversight	\$ 1,783,641.75 \$ 1,617,173.95	
D - District Convenience/Initiation - Non-Project Related E - Contractor Conveniece/Initiation	\$ 72,661.00	0.00%
TOTAL(A+B+C+D)	\$ 3,697,853.54	1 2.26%

Category	Total Amount	% of Original Contract
IRWD-Initiation/Driven	\$ 827,057,91	0.51%
FBB-Initiation/Driven	\$ 2,700,075.41	1.65%
Not applicable	\$ 170,720,22	0.10%
TOTAL	\$ 3,697,853,54	2.26%

EXHIBIT "C"

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE

Project T	itle: MWRP Biosolids & E	nergy Recovery F	acilities –	Construction	n Phase Se	rvices	
Project N Purchase	o.: 21146 (4286) Order No.: 514248			te: Octo	ber 9, 201 4	5	
Originato	r: [X] IRWD []	ENGINEER/CON	ISULTAN	T [] T	Other (Expl	ain)	
At the requ Additional (FBB) succ of work for	on of Variance (attach any best of IRWD, perform additional sometimes of the startup action of the working & Management Cost Imp	tartup monitoring serving B&V Commissioning vities associated with tasks.	g Team wer each early	e requested in c completion mile	order to help estone in a tir	ensure that Filar nely fashion. So	nc-Balfour Beat see attached scor
	Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
O&M Sp	pecialist 8	1,000	215	215,000	44,000		259,000
O&M Sp	pecialist 6	480	175	84,000	20,000		104,000
O&M Sp	pecialist 4	40	125	5,000	2,570		7,570
						Total \$ =	370,570
Schedule	Impact:						
Task No.	Task Description	Original Schedule		Schedul Varianc		Nev Sched	
5	Training, Commissioning, and Startup Services	April 30, 2017	7	0 days		April 30.	
Required	Approval Determination:						
	ginal Contract Variances \$\(\bigs_{.000000000000000000000000000000000000	\$_12,509,031	\$50,0	000.		riances less than	111
New Con	m of Variances tract Amount	\$ <u>2,046,835</u> \$ <u>14,555,866</u>	[] Gene	ual to \$75,000. ral Manager: C to \$100,000.	Cumulative to	otal of Variances	less than or
	ge of Total Variances nal Contract	16.4%	[X]Boar	d: Cumulative	total of Vari	ances greater tha	n \$100,000.
ENGINE	ER/CONSULTANT: Black	& Veatch Corp. Company Name	IRVI	NE RANCH	WATER I	DISTRICT	
100	ngineer/Manager	October 9, 201 Date		rtment Direc	tor	Date	
Engineer	s/Consultant's Management	October 9, 201 Date		ral Manager/	Board	Date	

IRVINE RANCH WATER DISTRICT

PROFESSIONAL SERVICES VARIANCE REGISTER

roject No.: 21146 (4286)	Project Manager: _Ste	eve Malloy	
Variance		ates	Variance
	escription Initiated	Approved	Amount
1 Ele Au	Id a Field ectrical & 02-05-14 atomation angineer	03-25-14	\$664,600
2 Main Monito	are an Odor Control tenance and oring Program OCMMP)	05-28-14	\$112,665
3 Civil/	Id a Field /Mechanical 10-06-14 Ingineer	11-10-14	\$899,000
Additi 4 Mo	ional Startup onitoring 10-09-15 ctivities	Pending	\$370,570

IRVINE RANCH WATER DISTRICT MWRP BIOSOLIDS & ENERGY RECOVERY FACILITIES (BIOSOLIDS PROJECT) CONSTRUCTION PHASE SERVICES Project No. 21146 (4286)

VARIANCE #4

SCOPE OF WORK

BACKGROUND

The Irvine Ranch Water District (IRWD) owns and operates the Michelson Water Recycling Plant (MWRP). New biosolids and energy recovery facilities are currently under construction by Filanc-Balfour Beatty (FBB), the construction contractor. Due to the importance of FBB successfully completing their contractual startup activities on schedule, IRWD has requested additional startup monitoring engineering services from Black & Veatch to support the project.

Black & Veatch will furnish additional O&M Specialist staff time led by Mr. Gary Neun (B&V Commissioning Manager) to support IRWD in monitoring FBB startup work activities. The role and responsibilities of the O&M Specialists are described below.

BASIS FOR VARIANCE

The Biosolids & Energy Recovery Facilities (Biosolids Project) are currently under construction. Due to the design and operational complexity of these new treatment facilities, seven (7) different Early Completion Milestones dates have been established in the construction contract (see Section 01700) for FBB. FBB is contractually required to perform startup activities in order to achieve Substantial Completion for each Early Completion Milestone as detailed in Specification Section 01510 and other related specification sections. All FBB work required in these specification sections are collectively referred to as "FBB startup activities" in this scope of work. Upon successful completion of all FBB startup activities for each milestone, substantial completion is achieved and commissioning activities will begin. Commissioning of milestone facilities consists of operation by IRWD with assistance from B&V O&M Specialists and warranty support from FBB.

Current staffing, planning and scheduling efforts by FBB and past IRWD project experience have created concerns by IRWD over the successful and timely completion of their startup activities. IRWD believes that adequate startup monitoring services are crucial to having FBB meet each early milestone completion date and ensure the facility design intent is preserved.

EXISTING SCOPE OF WORK

Black & Veatch's existing scope of work includes *Task 5 – Training, Commissioning,* and *Startup Services* and a copy of this task description is included in Attachment A. *Sub-Task 3 – Startup Testing Coordination* covers startup coordination provided by B&V to confirm that FBB has met its startup testing requirements prior to achieving substantial completion. Currently, the Black & Veatch existing scope of services includes only coordination and confirmation that FBB has completed successful startup of each milestone and IRWD has requested a more proactive role for Black & Veatch. The additional scope of services for Black & Veatch is described below.

O&M SPECIALIST NEW SCOPE OF WORK

Black & Veatch is proposing additional O&M Specialist staff time led by Mr. Gary Neun (B&V Commissioning Manager) to perform these additional services. The following additional tasks have been requested by IRWD:

- Develop detailed deliverables list and turnover documents for FBB. Review these documents and ensure that they are archived in the project document control system (DCS). Maintain a checklist of current completion status.
- Develop and maintain a detailed schedule for FBB and MMC/Delta (system integrator under contract with FBB) startup activities.
- Check progress on FBB startup activities and prepare weekly progress report.
- Witness startup activities in the field related to mechanical equipment, electrical power, I&C, and programming.
- Conduct weekly meetings with IRWD plant staff and the IRWD construction management team to review startup activity status and address any questions and concerns from IRWD operations staff.
- Gary Neun or O&M Specialists will attend weekly project construction meetings to coordinate with IRWD, FBB, MMC/Delta and other project stakeholders.
- Communicate and coordinate with the B&V commissioning team prior to the start of commissioning activities.
- Advise the IRWD Construction Manager (CM) of any issues that need to be resolved and perform special tasks directed by the IRWD CM related to FBB startup activities.
- Attend special meetings as directed by the IRWD CM.

SCHEDULE AND LEVEL OF EFFORT

Gary Neun and other B&V O&M Specialists are currently assigned to work on the project to confirm FBB startup activities and to provide commissioning activities outlined in Attachment A. A total of 910 hours were budgeted for startup coordination activities in the engineering fee. As noted above, IRWD has requested a more proactive monitoring role for B&V to help ensure that FBB successfully completes each milestone on schedule.

For purposes of estimating the level of effort for the new activities, Black & Veatch is assuming full time O&M Specialist over the planned 14-month duration to complete FBB startup activities for all milestones. A detailed engineering fee spreadsheet is attached providing the estimated additional level of effort itemized by each early completion milestone. A total of 1,520 additional hours is proposed to perform this work. When these hours are combined with the original allocation of 910 hours for support services this equates to approximately one full time equivalent 1.0 (FTE) over the anticipated14-month duration. Gary Neun will provide the bulk of the staff hours for this effort and be onsite for most of his time commitment. A summary of the hours by staff person is included in the detailed engineering fee spreadsheet. Actual presence from Gary Neun on site will be dictated by FBB activities and any special direction from the IRWD PM. The total additional engineering fee proposed for these additional services, including labor and reimbursable travel expenses, is \$370,570.

Variance #4 - Proposed Additional Startup Assistance Level of Effort

Staff Name	Title	Milestone #1 - WAS and PS Processing	Milestone #2 - WAS and PS Thickening	Milestone #3 - FOG Receiving	Milestone #4 - Anaerobiec Digestion	Milestone #5 - Class B Cake	Milestone #6 - Microturbine Power	Milestone #7 - Class A Pellet	Total Hours	Billing Rate	Labor
Gary W. Neun	O&M Specialist 8	120	160	120	160	160	120	160	1000	\$215	\$215,000
Ari Copeland	O&M Specialist 6	40	40	0	40	40	0	80	240	\$175	\$42,000
Neil Massart	O&M Specialist 6	0	80	0	0	80	0	80	240	\$175	\$42,000
Levon Pogoson	O&M Specialist 4	0	0	0	0	0	40	0	40	\$125	\$5,000
Ammar Al-Zarjawi	O&M Specialist 4	0	0	0	0	0	0	0	0	\$125	\$0
	Variance #4 Totals =	160	280	120	200	280	160	320	1520		\$304,000

Expenses = \$66,570

Total Fee = \$370,570

October 26, 2015

Submitted by: P. Weghorst Phylogen Approved by: Paul Cook

ACTION CALENDAR

REVISED WATER BANKING, TRANSFERS AND WHEELING POLICY POSITION PAPER

SUMMARY:

Irvine Ranch Water District policy position papers are reviewed periodically to determine if the positions are still valid, need revisions or if additional papers need to be written on different issues of importance to the District. Staff has modified the existing Water Banking, Transfers and Wheeling policy position paper that was last revised and approved on August 2, 2013. These revisions take into consideration progress that has occurred in establishing IRWD's water banking programs and the potential for the development of a water market within the State. Staff recommends that the Board approve the Policy Position Paper as revised with input from the Water Banking Committee.

BACKGROUND:

In 2004, IRWD began producing policy position papers on topics of particular interest and importance to the District. Because of the IRWD Board of Directors' standing in the water industry, the opinions of individual Board members are regularly solicited on issues of vital interest to the industry and the community. To keep these position papers current, staff occasionally recommends that the Board review the papers and when appropriate, incorporate revisions.

IRWD's Water Banking, Transfers and Wheeling position paper was last revised and adopted by the Board on August 2, 2013. At that time, the approved policy reflected the construction of the Strand Ranch Integrated Banking Project, acquisition of the Jackson Ranch property, development of the Stockdale Integrated Banking Project, development of an agreement with Metropolitan Water District of Southern California for coordinated delivery of State Water Project supplies, and the execution of approved pilot and long-term water supply programs involving unbalanced exchanges. Since that time, IRWD has entered into an agreement with Rosedale-Rio Bravo Water Storage District (Rosedale) for the construction and operation of wells in Rosedale's service area that will assist both agencies achieve groundwater recovery objectives. In addition, the two agencies are now contemplating incorporating a third project site into the Stockdale project. These significant changes in addition to the Administration's interest in establishing a water market for the State of California that would streamline water transfers and exchanges, has resulted in the need to update the policy position paper.

Staff has updated the Water Banking, Transfers and Wheeling Policy Position Paper. The revisions incorporate input from the Water Banking Committee that was provided on October 15, 2015. The revised paper is provided as Exhibit "A". A copy of the paper with changes identified from the August 2, 2013 version of the document is provided as Exhibit "B".

Action Calendar: Revised Water Banking, Transfers and Wheeling Policy Position Paper October 26, 2015
Page 2

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Water Banking Committee on October 15, 2015.

RECOMMENDATION:

THAT THE BOARD APPROVE THE REVISED WATER BANKING, TRANSFERS AND WHEELING POLICY POSITION PAPER.

LIST OF EXHIBITS:

Exhibit "A" – Updated Policy Paper: Water Banking, Transfers and Wheeling Exhibit "B" – Updated Policy Paper: Water Banking, Transfers and Wheeling with Changes Identified from August 2, 2013

EXHIBIT "A"

DRAFT IRVINE RANCH WATER DISTRICT POLICY POSITION WATER BANKING, TRANSFERS AND WHEELING

Revised: October 26, 2015

Issue Summary:

The Irvine Ranch Water District is further diversifying its water supply portfolio by developing water banking facilities in Kern County in the southern San Joaquin Valley. As water supplies become fully subscribed and as shortage limitations being experienced at the Sacramento-San Joaquin Delta may continue to stress water deliveries, water banking storage and recovery programs will continue to provide a highly reliable and cost efficient alternative to improving water supply reliability. These programs and participation by retail agencies should be encouraged throughout the State.

Background:

The continued rapid growth in statewide population, coupled with challenges of drought, limitations in the Delta and expanding regulatory and environmental pressures may continue to stress the State's water supplies. Strategies for addressing these challenges include securing supplemental supplies to store for future use and for the development of groundwater storage capabilities with corresponding recharge and recovery facilities (water banking). The conveyance or "wheeling" of water through federal, state, regional, and local facilities to points of use is a critical issue related to water banking, transfer programs, and the end users. The following are descriptions of the District's requirements for diversifying its water supplies through water banking, actions that IRWD has taken to date relative to the development of its water banking program, a summary of current and planned water banking capacities, objectives for acquiring supplemental supplies and objectives for expanding its water banking program capacities. This paper concludes with Policy Principals for the District's water banking program.

IRWD Supply Diversity Requirements:

IRWD's primary mission is to provide a safe and reliable water supply to its customers. Supply reliability is directly related to supply diversity. Along with the implementation of numerous water use efficiency programs, IRWD has developed and continues to develop a diverse mix of local and non-local supplies including the use of high quality groundwater, impaired groundwater, and recycled water. After taking these efforts into consideration, current projections indicate that IRWD has long-term requirements for the storage of at least 88,000 acre-feet of supplemental water that could be called upon during drought conditions and / or supply interruptions. In the event of a major supply interruption, this amount of water would fulfill IRWD's estimated needs for import water for three years in a row based on projected water demands. IRWD's water banking program will provide IRWD the ability to store and recover this supplemental water to meet long-term supply reliability requirements.

A significant risk of a major supply interruption exists at the Delta, where an earthquake or other natural disaster could damage the series of levees in the Sacramento Bay Delta. Various water and regulatory agencies have indicated water exports from the Delta could be interrupted for one or two years due to actual levee failures and subsequent repairs. Some estimates indicate that it

could take up to three years to repair the levees. In addition, the risk of shortages of water from the Colorado River must be considered. The Colorado River basin is in a 15-year drought and the U.S. Department of Interior projects that supply shortages on the Colorado River will occur in the future. Based on these projections, it is possible that shortages could result in impacts to supplies available to IRWD.

If during a major water supply interruption, Metropolitan Water District of Southern California (MWD) is unable to deliver IRWD's imported water demands of 28,000 acre-feet (AF) in 2035, then IRWD would need to supplement imported supplies with 28,000 AF per year (AFY) from storage in its water banking program to offset this shortfall. IRWD has determined that it needs to develop at least 28,000 AFY capacity to recover water from its water banking program to provide a reliable supply of water to its customers during major import water supply interruptions. In preparation for a major three-year interruption in imported water supplies and assuming the need to recover and deliver 28,000 AFY from storage for each of the three years, while taking into consideration in-ground losses, IRWD would need at least 88,000 AF of water in storage in its water banking programs.

To ensure that water can be delivered into storage when available in wet years, IRWD has also determined that it needs the capacity to recharge at least 28,000 AFY.

IRWD Actions to Date:

Following is a summary of actions to date to develop IRWD's water banking program:

Strand Ranch Facilities:

Since 2005, IRWD has made significant progress in the development of its water banking program and in securing supplemental supplies to store in the program in Kern County. The process began with the acquisition of the Strand Ranch in Kern County. Subsequent to the purchase, IRWD successfully negotiated a 30-year water banking partnership agreement with Rosedale-Rio Bravo Water Storage District which certified an Environmental Impact Report for the Strand Ranch Integrated Water Banking Project. IRWD has constructed 502 acres of recharge basins, seven production wells, Cross Valley Canal turnouts and turn-ins, recovery pipelines, and three monitoring wells. A small capacity in the CVC was also purchased by IRWD. The storage capacity associated with the Strand Ranch Water Bank is 50,000 AF. Recharge and recovery facilities have been developed for capacities of 17,500 AF per year. The Strand Ranch Water Bank is integrated into Rosedale's Conjunctive Use Program. IRWD also has access to three well sites within Rosedale's service area and the three wells are currently under construction as part of Rosedale's Drought Relief Project. These three new wells will be used to increase the instantaneous recovery capacity associated with the Strand Ranch Integrated Banking Project.

State Water Project Supplies:

In 2010, IRWD completed the acquisition of the Jackson Ranch property in Kings County with the right to use 1,747 AFY of State Water Project (SWP) Table A water through the Dudley Ridge Water District (DRWD). In addition, IRWD purchased the property's assigned portion of DRWD's participation rights in the Kern Water Bank (KWB) for an additional 9,495 AF of dedicated storage capacity and associated first priority recharge and recovery rights. Through this participation in the KWB, IRWD obtained access to unused storage, recharge and recovery capacity in the KWB. In December 2013, the California Department of Water Resources, DRWD, MWD and the Kern County Water Agency executed the Multi-Year Exchange and Change in Point of Delivery Agreement that allows the delivery of Table A water associated with the Jackson Ranch for storage in the Strand Ranch banking program on an unbalanced exchange basis.

In 2011, IRWD, MWD and Municipal Water District of Orange County (MWDOC) executed a Coordinated Exchange and Delivery Agreement for delivery of SWP supplies from the Strand Ranch Water Bank to IRWD's service area. The agreement allows IRWD to secure SWP supplies with the concurrence of MWD with MWD maintaining control of the introduction of these supplies into its service area.

IRWD has also completed two pilot projects with the Central Coast Water Agency (CCWA) for unbalanced exchanges of Carpinteria Valley Water District's (CVWD) SWP Table A amounts. A pilot unbalanced exchange program was also executed with Antelope Valley East Kern Water Agency (AVEK). A total of 7,000 AF of water has been delivered to the Strand Ranch from both the CCWA and AVEK programs and IRWD retains 50% (less a proportional share of losses) of the water for recovery and use in its service area. In 2014 and 2015, IRWD returned to both CCWA and AVEK their respective shares of the water. The development of these supplemental supplies is consistent with the District's objectives for acquiring supplemental water supplies. Currently, IRWD is pursuing long-term exchange program agreements with both CCWA and AVEK.

Non-State Water Project Supplies:

In 2010, IRWD completed a pilot project agreement with Buena Vista Water Storage District (BVWSD), whereby BVWSD could store up to 5,000 AF of its pre-1914, high flow Kern River water at the Strand Ranch on an unbalanced exchange basis where IRWD retains 50% of the stored supplies. In December 2010, IRWD and BVWSD executed an agreement for a long-term program whereby BVWSD can store up to 40,000 AF of its pre-1914 high flow Kern River water with IRWD retaining the rights to the use of half of this water. By the end of 2012, BVWSD had stored 25,473 AF of water at the Strand Ranch. In 2013 and 2015, IRWD returned to BVWSD the 50% share of the water that was stored for the benefit of BVWSD.

In 2014, IRWD, MWD and MWDOC executed a template Wheeling Agreement that facilitated the delivery of 1,000 AF of SWP water into IRWD's service area that was received from MWD in exchange for high flow Kern River water that was recovered from the Strand Ranch project and delivered to Arvin Edison Water Storage District on behalf of MWD. This Wheeling

Agreement was implemented consistent with MWD's Administrative Code. IRWD completed taking delivery of the 1,000 AF water into its service area in 2015 as extraordinary supply consistent with MWD's Water Supply Allocation Plan.

Stockdale West Facilities:

In 2010, IRWD completed the purchase of the Stockdale West Ranch property located just west of the Strand Ranch. In 2011, IRWD constructed four recharge basins over 259 acres as part of a one-year Pilot Recharge Project. In August 2011, IRWD and BVWSD entered into a one-year pilot program whereby BVWSD stored 3,268 AF of high flow Kern River water. This pilot was used to determine the recharge capabilities of the property and to provide important information necessary for the design of a long-term water banking project on the project.

IRWD and Rosedale have entered into a development agreement for the joint development of banking facilities on the Stockdale West Ranch and Rosedale's Stockdale East property located to the east of the Strand Ranch. This combined project is called the Stockdale Integrated Banking Project and currently IRWD and Rosedale are finalizing an Environmental Impact Report (EIR) and long-term partnership agreement for the project. Included in the Stockdale Integrated Banking Project will be the lease by Rosedale to IRWD of a total of 50,000 AF of storage in Rosedale's Conjunctive Use Program. Under the proposed project, IRWD and Rosedale would each have second priority use of each other's facilities on both the Stockdale West and Stockdale East properties.

The EIR for the Stockdale Integrated Banking Project contemplates that a third water banking project site would be secured and developed by IRWD and Rosedale to help meet both IRWD and Rosedale storage, recharge and recovery requirements. It is expected that the third project site could comprise up to 640 acres and could result in a storage capacity of approximately 51,200 AF, a recharge capacity of about 52,200 AFY and a recovery capacity of approximately 22,500 AFY. If IRWD and Rosedale participated equally in the purchase of the land, the storage capacity would be divided equally to IRWD and Rosedale and each agency would get access to 50 percent of the resulting recharge and recovery capacities on a first priority basis. Each agency would also get access to each other's share of the recharge and recovery capacity on a second priority basis.

Water Banking Capacities:

The following table presents an overview of the storage, recharge and recovery capacities that have been developed to date and that are expected to be developed at IRWD's water banking projects on both the Strand Ranch and the Stockdale West Ranch. The table also provides an overview of how these capacities are shared and expected to be shared with IRWD's unbalanced exchange partners. At the bottom of the table is a summary of IRWD requirements and additional capacities that are needed to meet these requirements. The table indicates that IRWD will have a shortfall of annual recovery capacity in the amount of 4,417 AF that would likely be achieved by securing and developing two recovery wells on the third water banking project site that is contemplated in the EIR for the Stockdale Integrated Banking Project. Any excess

storage, recharge and recovery capacities that would be available to IRWD from the third project site could be used to share reliability benefits with other retail water supply agencies.

Existing and Currently Planned Storage, Recharge, and Recovery Capacity in IRWD's Water Banking Program

		Recharge	Capacity	Recovery Capacity		
Water Banking Property	Storage Capacity (AF)	First Priority Recharge Capacity (AFY)	Second Priority Recharge Capacity (AFY)	First Priority Recovery Capacity (AFY)	Second Priority Recovery Capacity (AFY)	
Strand Ranch	50,000	17,500	0	17,500	0	
Stockdale West	26,000	27,100	0	11,250	0	
Stockdale East	0		19,000		7,500	
Storage Lease in Rosedale's Conjunctive Use Program	50,000	0	0	0	0	
Total to Date	126,000	44,600	19,000	28,750	7,500	
Exchange Partner Share	38,000	22,300	9,500	12,667	0	
IRWD Share	88,000	22,300 First + Second:	9,500 31,800	16,083 First + Second:	7,500 23,583	
IRWD Stated Capacity Needs:			28,000	28,000		
IRWD's Needs: Excess (Shortfall)	0		3,800	(4,417)		

Objectives for Acquiring Supplemental Water Supplies:

IRWD's objectives for acquiring supplemental water supplies for recharge, storage and recovery within IRWD's water banking program excluding supplies needed to fulfill local operations (including irrigation) are as follows:

- 1. IRWD seeks to acquire low-cost and diverse supplemental sources of water such as high flow Kern River water, State Water Project supplies, water associated with pre-1914 rights, CVP supplies and water from other available sources depending on annual availability and conveyance capacity availability.
- 2. Generally, IRWD seeks to acquire up to 67% of its supplemental supplies during wet hydrologic periods subject to the conditions established by the water supplier and availability. IRWD does not intend to compete for supplemental supplies during dry years when supply availability may be less.

3. IRWD plans to acquire up to 33% of its supplemental supplies through smaller sustained, controllable and schedulable supply sources. Such supplies are expected to be acquired through the purchases of farm land that have water supply entitled to it. IRWD will attempt to preserve existing agricultural uses wherever possible and will schedule excess water for direct or exchange delivery to its water banking programs through rotational fallowing or onsite conservation using methods that where necessary attempt to minimize third-party impacts to local economies.

The acquisition of supplemental supplies is likely to require the use of unbalanced exchange concepts whereby IRWD stores water on behalf of another party in return for 50 percent of the water being transferred to IRWD. The sharing of the District's water banking facilities will result in the need to expand water banking capacity to ensure that the District can meet its water supply diversification requirements while meeting the requirements of IRWD's exchange partners.

Objectives for Developing Additional Capacity:

IRWD seeks to develop additional recovery capacity to meet IRWD's recovery needs and to ensure that IRWD and its exchange partner's rights to the use of the recovery facilities during peak summer demand periods can be maximized. It is anticipated that a total recovery capacity of up to 70 cfs will need to be developed to meet these needs. Access to second priority use of wells by IRWD would also be effective for periods when IRWD can recover water for its use off-peak to other uses in Kern County.

Rosedale is currently constructing three wells in its service area as part of the Rosedale Drought Relief Project that will be available for IRWD's use in conjunction with the wells on the Strand Ranch project. These additional wells will help IRWD achieve its goal of 70 cfs of instantaneous recovery capacity. At least two more wells will need to be developed by IRWD on the third Stockdale project site that is described above to fulfill the identified 4,417 AF per year shortfall in recovery capacity.

Land Acquisition Opportunities:

IRWD will consider land acquisition opportunities which will have associated near and/or long-term water supply benefits where water can be conserved or made available through temporary fallowing or onsite conservation. Such water would be scheduled for delivery to storage in the water banking facilities or other storage facilities through methods that where necessary attempt to minimize third-party impacts and environmental resource impacts. Such water supplies would be useful in performing in-lieu recharge or recovery operations associated with IRWD's water banking program.

IRWD will also consider land acquisition opportunities with the most favorable conditions for groundwater recharge, storage and recovery capacity as needed to meet IRWD capacity requirements as described above and as they may change in the future.

Policy Principles:

Based on the information provided above, the following IRWD policy principals have been developed:

- 1. The State's water supply situation is being impacted by persistent drought, problems in the Delta, a growing population, increasing regulatory pressure, potential climate change impacts, and an imbalance between available water supplies and available storage. As a result, IRWD has the need for supplemental supplies and storage facilities to store the supplemental water supplies for use during dry periods.
- 2. Based on economic and environmental criteria, water banking programs involving storage in groundwater aquifers have demonstrated that they are less expensive and preferable to surface storage.
- 3. A primary mission of IRWD is to provide a highly reliable supply of water. Reliability is enhanced by having multiple redundant sources of supply. To address this need, IRWD will develop diverse supplemental water supply sources and water banking capacity.
- 4. IRWD seeks to secure low-cost and diverse supplemental sources of water including high flow Kern River, State Water Project supplies, water with pre-1914 rights, CVP supplies and water from other available sources depending on annual availability and conveyance and/or exchange capacity that will allow IRWD to achieve its goal of storing 88,000 AF of water in its water banking program.
- 5. Because of the District's obligation to its customers, long-term equity ownership of water banking capacity as well as in lands that have water supplies entitled to them is strongly preferred over contract or lease arrangements. Equity partnerships that provide benefits to both the District and to local entities are preferred.
- 6. The District's water banking partnerships benefit from the sharing of recharge, storage and recovery capacity through unbalanced exchanges. In addition, due to potential climate change, the future intervals between wet years are expected to become longer with increases in the rate of runoff. These issues may make it necessary for IRWD in the future to consider increasing recharge, storage and recovery capacities in its water banking program.
- 7. Expansion of water banking capacities may be considered through equity purchases of capacities available in existing water banking programs or development of partnerships for capacity expansion.
- 8. IRWD will support wheeling policies and rates adopted by MWD and other agencies to the extent they reflect cost of service approach. Any wheeling or exchange of water through MWD's conveyance facilities should be consistent with MWD's Administrative Code, must not financially impact MWD or its Member Agencies and should protect MWD's rights including its SWP contract.

- 9. IRWD will put all available supplemental water supplies to beneficial use using methods that where necessary attempt to minimize third-party impacts while preserving the agricultural benefits of the contributing lands through temporary fallowing arrangements and / or water conservation efforts.
- 10. IRWD will seek partnerships that result in mutually beneficial exchange opportunities including the ability to enhance direct and in-lieu recharge or recovery operations associated with IRWD's water banking program.
- 11. IRWD will support and actively work with the State and the Federal governments and available legislative processes to streamline procedures for the implementation of short and long-term water transfers and exchanges as well as the formation of local, regional and statewide water marketing systems.
- 12. IRWD will support the development of water marketing systems in the State of California that are consistent with and do not expand existing lawful authorities, provide local and regional oversight of markets, encourage regional and statewide cooperation, protect existing land, water and capacity rights, attempt to protect communities from unreasonable third party impacts and environmental impacts, do not interfere with contract rights and that result in streamlined abilities to effectuate water transfers, exchanges and wheeling of supplies among voluntary market participants.
- 13. IRWD will support sharing reliability from its water banking program after IRWD's reliably requirements are fulfilled. Such sharing would occur in a way that ensures IRWD is kept financially whole on the transactions.

EXHIBIT "B"

DRAFT

IRVINE RANCH WATER DISTRICT POLICY POSITION WATER BANKING, TRANSFERS AND WHEELING

Revised: October 2615 August 2, 20153

Issue Summary:

The Irvine Ranch Water District is further diversifying its water supply portfolio by developing water banking facilities in Kern County in the southern San Joaquin Valley. As water supplies become fully subscribed and as shortagethe limitations being experienced at the Sacramento-San Joaquin Delta may continue to stress water deliveries, water banking storage and recovery programs will continue to provide a highly reliable and cost efficient alternative to improving water supply reliability. These programs and participation by retail agencies should be encouraged throughout the State.

Background:

The continued rapid growth in statewide population, coupled with challenges of drought, and limitations in the Delta and and expanding regulatory and environmental pressures, maywill continue to stress the State's water supplies. Strategies for addressing these challenges include securing supplemental supplies to store for future use and for the development of groundwater storage capabilities with corresponding recharge and recovery facilities (water banking). The conveyance or "wheeling" of water through federal, state, regional, and local facilities to points of use is a critical issue related to water banking, transfer programs, and the end users. The following are descriptions of the District's requirements for diversifying its water supplies through water banking, actions that IRWD has taken to date relative to the development of its water banking program, a summary of current and planned water banking capacities, objectives for acquiring supplemental supplies and objectives for expanding its water banking program capacities. This paper concludes with Policy Principals for the District's water banking program.

IRWD Supply Diversity Requirements:

IRWD's primary mission is to provide a safe and reliable water supply to its customers. Supply reliability is directly related to supply diversity. Along with the implementation of numerous water use efficiency programs, IRWD has developed and continues to develop a diverse mix of local and non-local supplies including the use of high quality groundwater, impaired groundwater, and recycled water. After taking these efforts into consideration, current projections indicate that IRWD has long-term requirements for the storage of at least 88,000 acre-feet of supplemental water that could be called upon during drought conditions and / or supply interruptions. In the event of a major supply interruption, this amount of water would fulfill IRWD's estimated needs for import water for three years in a row based on projected water demands. IRWD's water banking program will provide IRWD the ability to store and recover this supplemental water to meet long-term supply reliability requirements.

A significant risk of a major supply interruption exists at the Delta, where an earthquake or other natural disaster could damage the series of levees in the Sacramento Bay Delta. Various water and regulatory agencies have indicated water exports from the Delta could be interrupted for one or two years due to actual levee failures and subsequent repairs. Some estimates indicate that it

could take up to three years to repair the levees. In addition, the risk of shortages of water from the Colorado River must be considered. The Colorado River basin is in a 153-year drought and the U.S. Department of Interior projects that supply shortages on the Colorado River will become more severeoccur in the future. Based on these projections, it is possible that shortages could result in impacts to supplies available to IRWD.

If during a major water supply interruption, Metropolitan Water District of Southern California (MWD) is unable to deliver IRWD's imported water demands of 28,000 acre-feet (AF) in 2035, then IRWD would need to supplement imported supplies with 28,000 AF per year (AFY) from storage in its water banking program to offset this shortfall. IRWD has determined that it needs to develop at least 28,000 AFY capacity to recover water from its water banking program to provide a reliable supply of water to its customers during major import water supply interruptions. In preparation for a major three-year interruption in imported water supplies and assuming the need to recover and deliver -28,000 AFY from storage for each of the three years, while taking into consideration in-ground losses, IRWD would need at least 88,000 AF of water in storage in its water banking programs.

To ensure that water can be delivered into storage when available in wet years, IRWD has also determined that it needs the capacity to recharge at least 28,000 AFY.

IRWD Actions to Date:

Following is a summary of actions to date to develop IRWD's water banking program:

Strand Ranch Facilities:

Since 2005, IRWD has made significant progress in the development of its water banking program and in securing supplemental supplies to store in the program in Kern County. The process began with the acquisition of the Strand Ranch in Kern County. Subsequent to the purchase, IRWD successfully negotiated a 30-year water banking partnership agreement with Rosedale-Rio Bravo Water Storage District whichand jointly certified an Environmental Impact Report for the Strand Ranch Integrated Water Banking Project. IRWD has constructed 502 acres of recharge basins, seven production wells, Cross Valley Canal turnouts and turn-ins, recovery pipelines, and three monitoring wells. A small capacity in the CVC was also purchased by IRWD. The storage capacity associated with the Strand Ranch Water Bank is 50.000 AF. Recharge and recovery facilities have been developed for capacities of 17,500 AF per year. The Strand Ranch Water Bank is integrated into Rosedale's Conjunctive Use Program. IRWD also has access to threetwo well sites reserved within Rosedale's service area and the three wells are currently under construction as part of Rosedale's Drought Relief Project. With additional appropriate environmental review, tThese three new wells will be used to could be constructed to increase the instantaneous recovery capacity associated with the Strand Ranch Integrated Banking Project.

State Water Project Supplies:

In 2010, IRWD completed the acquisition of the Jackson Ranch property in Kings County with the right to use 1,747 AFY of State Water Project (SWP) Table A water through the Dudley Ridge Water District (DRWD). In addition, IRWD purchased the property's assigned portion of DRWD's participation rights in the Kern Water Bank (KWB) for an additional 9,495 AF of dedicated storage capacity and associated first priority recharge and recovery rights. Through this participation in the KWB, IRWD obtained access to unused storage, recharge and recovery capacity in the KWB. In December 2013, tThe California Department of Water Resources, DRWD, MWD and the Kern County Water Agency executed is currently preparing the necessary Multi-Year Exchange and Change in Point of Delivery Agreement agreements to that allows the delivery of Table A water associated with the Jackson Ranch for storage in the Strand Ranch banking program on an unbalanced exchange basis.

In 2011, IRWD, MWD and Municipal Water District of Orange County (MWDOC) executed a Coordinated Exchange and Delivery Agreement for delivery of SWP supplies from the Strand Ranch Water Bank to IRWD's service area. The agreement allows IRWD to secure SWP supplies with the concurrence of MWD with MWD maintaining control of the introduction of these supplies into its service area.

IRWD has also completed two pilot projects with the Central Coast Water Agency (CCWA) for unbalanced exchanges of CCWA's member agency Carpinteria Valley Water District's (CVWD) SWP Table A amounts. A pilot unbalanced exchange program was also executed with Antelope Valley East Kern Water Agency (AVEK). A total of 7,000 AF of water has been delivered to the Strand Ranch from both the CCWA and AVEK programs and IRWD retains 50% (less a proportional share of losses) of the water for recovery and use in its service area. In 2014 and 2015, IRWD returned to both CCWA and AVEK their respective shares of the water. The development of these supplemental supplies is consistent with the District's objectives for acquiring supplemental water supplies. Currently, IRWD is pursuing long-term exchange program agreements with both CCWA and AVEK.

Non-State Water Project Supplies:

In 2010, IRWD completed a pilot project agreement with Buena Vista Water Storage District (BVWSD), whereby BVWSD coulden store up to 5,000 AF of its pre-1914, high flow Kern River water at the Strand Ranch on an unbalanced exchange basis where IRWD retains 50% of the stored supplies. In December 2010, IRWD and BVWSD executed an agreement for a long-term program whereby BVWSD can store up to 40,000 AF of its pre-1914 high flow Kern River water with IRWD retaining the rights to the use of half of this water in its service area. By the end of 2012, BVWSD had stored 25,473 AF of water at the Strand Ranch. In 2013 and 2015, IRWD returned to BVWSD the 50% share of the water that was stored for the benefit of BVWSD.

<u>In 2014, IRWD, MWD and MWDOC executed</u> has prepared a template Wheeling Agreement that will facilitated the <u>delivery of recovery and delivery of 1,000 AF of SWP water into IRWD's</u> service area that was received from MWD in exchange for high flow Kern River water that was

recovered from the Strand Ranch project and delivered to Arvin Edison Water Storage District on behalf of MWD. This Wheeling Agreement was implemented consistent into IRWD's service area consistent with MWD's Administrative Code. IRWD completed taking delivery of the 1,000 AF water into its service area in 2015 as extraordinary supply consistent with MWD's Water Supply Allocation Plan. This agreement is expected to be tested in 2013 with the recovery and delivery of 1,000 AF of water to IRWD's service area.

Stockdale West Facilities:

In 2010, IRWD completed the purchase of the Stockdale West Ranch property located just west of the Strand Ranch. In 2011, IRWD constructed four recharge basins over 259 acres as part of a one-year Pilot Recharge Project. In August 2011, IRWD and BVWSD entered into a one-year pilot program whereby BVWSD stored 3,268 AF of high flow Kern River water. This pilot was used to determine the recharge capabilities of the property and to provide important information necessary for the design of a long-term water banking project on the project.

IRWD and Rosedale have entered into a development agreement for the joint development of banking facilities on the Stockdale West Ranch and Rosedale's Stockdale East property located to the east of the Strand Ranch. This combined project is called the Stockdale Integrated Banking Project and currently IRWD and Rosedale are preparing finalizing an Environmental Impact Report (EIR) and long-term partnership agreement for the project. Included in the Stockdale Integrated Banking Project description is will be the lease by Rosedale to IRWD of a total of 50,000 AF of storage in Rosedale's Conjunctive Use Program. Under the proposed project, IRWD and Rosedale would each have second priority use of each other's facilities on both the Stockdale West and Stockdale East properties.

The EIR for the Stockdale Integrated Banking Project contemplates that a third water banking project site would be secured and developed by IRWD and Rosedale to help meet both IRWD and Rosedale storage, recharge and recovery requirements. It is expected that the third project site could comprise up to 640 acres and could result in a storage capacity of approximately 51,200 AF, a recharge capacity of about 52,200 AFY and a recovery capacity of approximately 22,500 AFY. If IRWD and Rosedale participated equally in the purchase of the land, the storage capacity would be divided equally to IRWD and Rosedale and each agency would get access to 50 percent of the resulting recharge and recovery capacities on a first priority basis. Each agency would also get access to each other's share of the recharge and recovery capacity on a second priority basis.

Water Banking Capacities:

The following table presents an overview of the storage, recharge and recovery capacities that have been developed to date and that are expected to be developed at IRWD's water banking projects on both the Strand Ranch and the Stockdale West Ranch. The table also provides an overview of how these capacities are shared and expected to be shared with IRWD's unbalanced exchange partners. At the bottom of the table is a summary of IRWD requirements and additional capacities that are needed to meet these requirements. The table indicates that IRWD will have a shortfall of annual recovery capacity in the amount of 4,417 AF that would likely be

achieved by securing and developing two recovery wells on the third water banking project site that is contemplated in the EIR for the Stockdale Integrated Banking Project. Any excess storage, recharge and recovery capacities that would be available to IRWD from the third project site could be used to share reliability benefits with other retail water supply agencies.

Existing and Currently Planned Storage, Recharge, and Recovery Capacity in IRWD's Water Banking Program

		Recharge Capacity		Recovery Capacity		
Water Banking Property Strand Ranch	Storage Capacity (AF) 50,000	First Priority Recharge Capacity (AFY) 17,500	Second Priority Recharge Capacity (AFY)	First Priority Recovery Capacity (AFY) 17,500	Second Priority Recovery Capacity (AFY)	
Stockdale West	26,000	27,100	0	11,2509,000	0	
Stockdale East	0		19,000		<u>7,500</u> 6,000	
Storage Lease in Rosedale's Conjunctive Use Program	50,000	0	0	0	0	
Total to Date	126,000	44,600	19,000	2 <u>8,750</u> 6,500	7,500 6,000	
Exchange Partner Share	38,000	22,300	9,500	<u>12,667</u> 13,250	0	
IRWD Share	88,000	22,300 First + Second:	9,500 31,800	1 <u>6,083<mark>3,250</mark></u> First + Second:	7,5006,000 23,58319,250	
IRWD Stated Capacity Needs:	88,000	28,000		28,000		
IRWD's Needs: Excess (Shortfall)	0	3,800		(<u>4,417</u> 8 ,750)		

Objectives for Acquiring Supplemental Water Supplies:

IRWD's objectives for acquiring supplemental water supplies for recharge, storage and recovery within IRWD'sfor the water banking program excluding supplies needed to fulfill local operations (including irrigation) are as follows:

- IRWD seeks to acquire low-cost and diverse supplemental sources of water including such as high flow Kern River water, State Water Project supplies, water water associated withith pre-1914 rights, and / or CVP supplies and water from other available sources depending on annual availability and conveyance capacity availability.
- 2. Generally, IRWD seeks to acquire up to 67% of its supplemental supplies during wet hydrologic periods subject to the conditions established by the water supplier and availability. IRWD does not intend to compete for supplemental supplies during dry years when supply availability may be less.

3. IRWD plans to acquire up to 33% of its supplemental supplies through smaller sustained, controllable and schedulable supply sources. Such supplies are expected to be acquired through the purchases of farm land that have water supply entitled to it. IRWD will attempt to preserve existing agricultural uses wherever possible and will schedule excess water for direct or exchange delivery to its water banking programs through rotational fallowing or onsite conservation using methods that where necessary attempt to minimize third-party impacts to local economies.

The acquisition of supplemental supplies is likely to require the use of unbalanced exchange concepts whereby IRWD stores water on behalf of another party in return for 50 percent of the water being transferred to IRWD. The sharing of the District's water banking facilities will result in the need to expand water banking capacity to ensure that the District can meet its water supply diversification requirements while meeting the requirements of IRWD's exchange partners.

Objectives for Developing Additional Capacity as Needed:

IRWD seeks to develop additional recovery capacity to meet IRWD's recovery needs and to ensure that IRWD and its exchange partner's rights to the use of the recovery facilities during peak <u>summer demand</u> periods can be maximized. It is anticipated that a total recovery capacity of up to 70 cfs will need to be developed to meet these needs. Access to second priority use of wells by IRWD would also be effective for periods when IRWD can recover water for its use off-peak to other uses in Kern County.

Relief Project that will be available for IRWD's use in conjunction with the wells on the Strand Ranch project. These additional wells will help IRWD achieve its goal of 70 cfs of instantaneous recovery capacity. IRWD may construct additional exchange wells within Rosedale's service area to meet these objectives and already has the rights to two wells sites in the Rosedale service area. Additional environmental review may be needed to operate wells on these sites. At least two more wells will need to be developed by IRWD on the third Stockdale project site that is described above to fulfill the identified 4,417 AF per year shortfall in recovery capacity.

Land Acquisition Opportunities:

IRWD will consider land acquisition opportunities which will have an associated near and/or long-term water supply benefits where water can be conserved or made available through temporary fallowing or onsite conservation. Such water would be scheduled for delivery to storage in the water banking facilities or other storage facilities through methods that where necessary attempt to minimize with minimal third-party impacts and environmental resource impacts. Such water supplies would be useful in performing in-lieu recharge or recovery operations associated with of water from IRWD's the water banking program.

IRWD will also consider land acquisition opportunities with the most favorable conditions for groundwater recharge, storage and recovery capacity as needed to meet IRWD capacity requirements as described above and as they may change in the future.

Policy Principles:

Based on the information provided above, the following IRWD policy principals have been developed:

- 1. The State's water supply situation is being impacted by <u>persistent drought</u>, problems in the Delta, a growing population, increasing regulatory pressure, potential climate change impacts, and an imbalance between available water supplies and available storage. As a result, IRWD has the need for supplemental supplies and storage facilities to store the supplemental water supplies for use during dry periods.
- 2. Based on economic and environmental criteria, water banking programs involving storage in groundwater aquifers have demonstrated that they are less expensive and preferable to surface storage.
- 3. A primary mission of IRWD is to provide a highly reliable supply of water. Reliability is enhanced by having multiple redundant sources of supply. To address this need, IRWD will develop diversehas developed supplemental water supply sources and water banking capacity.
- 4. IRWD seeks to secure low-cost and diverse supplemental sources of water including high flow Kern River, State Water Project supplies, water with pre-1914 rights, and / or CVP supplies and water from other available sources depending on annual availability and conveyance and/or exchange capacity availability that will allow IRWD to achieve its goal of storing 88,000 AF of water in its water banking program.
- 5. Because of the District's obligation to its customers, long-term equity ownership of water banking capacity as well as in lands that have water supplies entitled to them is strongly preferred over contract or lease arrangements. Equity partnerships that provide benefits to both the District and to local entities are preferred.
- 6. The District's water banking partnerships benefit from the sharing of recharge, storage and recovery capacity through unbalanced exchanges. In addition, due to potential climate change, the future intervals between wet years are expected to become longer with increases in the rate of runoff. These issues may make it necessary for IRWD in the future to consider increasing recharge, storage and recovery capacities in its water banking program.

- Expansion of water banking capacities may be considered through equity purchases of
 capacities available in existing water banking programs or development of partnerships
 for capacity expansion.
- 8. IRWD will support wheeling policies and rates adopted by MWD and other agencies to the extent they reflect a uniform, cost of service approach. Any wheeling or exchange of water through MWD's conveyance facilities should be consistent with MWD's Administrative Code, must not financially impact MWD or its Member Agencies and should protect MWD's rights including under-its SWP contract.
- 9. IRWD will put all available supplemental water supplies to beneficial use using methods that where necessary attempt to minimize third-party impacts while preserving the agricultural benefits of the contributing lands through temporary fallowing arrangements and / or water conservation efforts.
- 10. IRWD will seek partnerships that result in mutually beneficial exchange opportunities including the ability to enhance direct and in-lieu recharge or recovery operations associated with IRWD's water banking program.
- 11. IRWD will support and actively work with the State and the Federal governments and available legislative processes to streamline procedures for the implementation of short and long-term water transfers and exchanges as well as the formation of local, regional and statewide water marketing systems.
- 10.12. IRWD will support the development of water marketing systems in the State of California that are consistent with and do not expand existing lawful authorities, provide local and regional oversight of markets, encourage regional and statewide cooperation, protect existing land, water and capacity rights, attempt to protect communities from unreasonable third party impacts and environmental impacts, do not interfere with contract rights and that result in streamlined abilities to effectuate water transfers, exchanges and wheeling of supplies among voluntary market participants.
- 11.13. IRWD will support sharing reliability from its water banking program after IRWD's reliably requirements are fulfilled. Such sharing would occur in a way that ensures IRWD is kept financially whole on the transactions.