

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

**November 23, 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.

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**COMMUNICATIONS TO THE BOARD**

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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.

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**PRESENTATION**

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3.     FEDERAL LEGISLATIVE ACTIVITIES UPDATE

      The District's federal advocate Mr. Hal Furman will provide an update on the 2016 Legislative activities.

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**CONSENT CALENDAR**

**Next Resolution No. 2015-30**

**Items 4-10**

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4.     MINUTES OF BOARD MEETINGS

      Recommendation: That the minutes of the November 6 Adjourned Regular and the November 9, 2015 Regular Board Meeting be approved as presented.

**CONSENT CALENDAR – Continued      Next Resolution No. 2015-30**

**Items 4-10**

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

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

6.     OCTOBER 2015 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the Monthly Interest Rate Swap Summary for October 2015, and Disclosure Report of Reimbursements to board members and staff; approve the October 2015 Summary of Payroll ach payments in the total amount of \$2,329,412 and approve the October 2015 accounts payable disbursement summary of warrants 361858 through 362728, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$37,445,122.

7.     AUTOMATION SUPPORT CONSULTANT SERVICES

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement, in the amount of \$200,000, with Vertech for automation support services.

8.     LAGUNA CANYON ROAD AND TECHNOLOGY DRIVE CAPITAL RECYCLED WATER FACILITIES

Recommendation: That the Board authorize the General Manager to accept Irvine Community Development Company's construction contract with Sukut in the amount of \$2,344,000 for the Laguna Canyon Road and Technology Drive Capital Recycled Water facilities, project 30366.

9.     400 AND 450 SPECTRUM CENTER DRIVE CAPITAL SEWER RELOCATION

Recommendation: That the Board authorize the addition of project 21304 (6479) to the FY 2015-16 Capital Budget in the amount of \$596,200; authorize the General Manager to execute a Supplemental Reimbursement Agreement with Irvine Community Development Company; and authorize the General Manager to accept Irvine Community Development Company's construction contract with KEC Engineering in the amount of \$1,490,825 for the 400 and 450 Spectrum Center Drive Sewer Relocation, project 21304 (6479).

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**CONSENT CALENDAR – Continued      Next Resolution No. 2015-30      Items 4-10**

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10.    THREE-YEAR DAM MONITORING AND SURVEILLANCE  
CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Genterra Consultants, Inc. in the amount of \$144,990 for three years of dam monitoring and surveillance services.

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**ACTION CALENDAR**

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11.    ENTERPRISE ASSET MANAGEMENT SYSTEM PROJECT SUPPORT  
VARIANCE

Recommendation: That the Board authorize the General Manager to execute Variance No. 1 to the Professional Services Agreement with GHD in the amount of \$310,200 for project management support services for the Enterprise Asset Management System project.

12.    DYER ROAD WELL FIELD SURGE TANKS CONSULTANT SELECTION

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech in the amount of \$290,000 for the Dyer Road Well Field Surge Tanks, project 11754 (5473).

13.    DYER ROAD WELL FIELD WELL NO. 3 REHABILITATION  
CONSTRUCTION AWARD

Recommendation: That the Board authorize a budget increase in the amount of \$300,300, from \$401,500 to \$701,800; and authorize the General Manager to execute a construction contract with General Pump Company in the amount of \$477,657 for the Dyer Road Well Field Well No. 3 Rehabilitation, project 11672 (4327).

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**OTHER BUSINESS**

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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.

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**OTHER BUSINESS - Continued**

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14. A. General Manager's Report

B. Directors' Comments

C. Adjourn

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

November 23, 2015  
Prepared and  
Submitted by: L. Bonkowski JB  
Approved by: P. Cook / CWZ

CONSENT CALENDAR

MINUTES OF BOARD MEETINGS

SUMMARY:

Provided are the minutes of the November 6, 2015 Adjourned Regular and the November 9, 2015 Regular Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE NOVEMBER 6, 2015 ADJOURNED REGULAR BOARD AND THE NOVEMBER 9, 2015 REGULAR MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

- Exhibit "A" – November 6, 2015 Minutes
- Exhibit "B" – November 9, 2015 Minutes

## EXHIBIT "A"

### MINUTES OF ADJOURNED REGULAR MEETING – NOVEMBER 6, 2015

The adjourned Regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 11:00 a.m. by President LaMar on November 6, 2015 at the District's Operations Center, Committee Room, 3512 Michelson, Irvine, California.

Directors Present: Withers, Reinhart, Matheis, LaMar and Swan.

Directors Absent: None.

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, Director of Administrative Services Mossbarger, Director of Public Affairs Beeman, Assistant Director of Recycling Operations Lee, Assistant Director of Water Operations Roberts, Assistant Director of Maintenance Drake, and Water and Resources Manager Bennett.

Written and Oral Communications: None.

Items too late to be agendized: None.

### WORKSHOP

General Manager Cook provided a recap of the strategic planning process and desired outcomes.

Mr. Cook reviewed the *District Mission, Vision, and Values Statement* along with the *IRWD Strategic Objectives*. Mr. Cook said that one of the recently added steps in the planning process was to conduct an in-depth discussion of how conditions that impact the District and the water industry are changing, and what goals the District should adopt and prioritize in consideration of these changing conditions. He said that the IRWD Management Team met last month to develop some initial thoughts on changing conditions for the Board's consideration and created a list of the most prominent changing conditions including: increasing pressures from the drought; changing regulations; evolving energy opportunities and challenges; evolving workforce needs for the future; greater uncertainty on water supply reliability; increased exposure to third-party costs; changing technology; and increasingly complex security challenges. Director Withers said he would like to see comprehensive rather than incremental rewrite approach on the regulations. Director Swan suggested that the District pursue more pilot projects on changing technology. Additionally, two items were added to the list including mountain surveying and judicial and political.

Mr. Cook reviewed the draft IRWD 2016 Goals and Target Activities as provided on the exhibit which included the following key points: optimize and protect local water supply utilization; minimize discharge of recyclable water to the ocean; bank 88,000 AF of water for IRWD; develop 70 cfs of extraction and additional recharge and storage capacity as needed for IRWD and water

banking partners; maximize resource recovery from fully functional biosolids and resource recovery facility; improve electric service reliability, manage demands and control costs; maximize urban water treatment and watershed protection; develop and implement asset management programs; ensure financial and rate stability; enhance customer satisfaction and communication; maximize water use efficiency in the community; and recruit, develop and retain a highly skilled and educated work force; identify, assess, and implement new technologies; guide and lead local, state and federal policies and legislation; increase collaboration with other agencies and entities through leadership and innovation; and evaluate opportunities that enhance safety and emergency preparedness throughout the District. Following the Board's reviews and comments, THE BOARD APPROVED THE CONTENT OF THE DRAFT IRWD 2016 GOALS AND TARGET ACTIVITIES REPORT AS AMENDED.

### STRATEGIC ENERGY ACTION PLAN

Executive Director of Water Policy Weghorst reported that there are a number of changing conditions in the energy sector that are expected to occur that will affect IRWD in the near future. Mr. Weghorst said that these include a reduction in reliability of SCE's electric service, increased IRWD demand for electricity, increases in the costs of electricity expected to be charged to IRWD, new technologies and the availability of new incentive programs. He then described a summary of each expected changed conditions including: 1) risk of shortages; 2) increased costs; 3) increased demands; 4) new technologies; 5) new incentive programs; 6) need for improved reliability; and 7) need to manage demands and control costs.

Mr. Weghorst reported that staff prepared a list of potential strategic energy related actions that IRWD can consider in improving the reliability of the electric service provided, managing demands and controlling the future costs of electricity. The Board provided input on this draft plan.

### ADJOURNMENT

President LaMar adjourned the meeting.

APPROVED and SIGNED this 23rd day of November, 2015.

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President, IRVINE RANCH WATER DISTRICT

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Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Legal Counsel - Bowie, Arneson,  
Wiles & Giannone

## EXHIBIT “B”

### MINUTES OF REGULAR MEETING – NOVEMBER 9, 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 November 9, 2015 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Reinhart, LaMar, Swan, Matheis and Withers (arrived at 5:13 p.m.).

Directors Absent: None.

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, Executive Director of Operations Shields, Director of Treasury and Risk Management Jacobson, Director of Public Affairs Beeman, Director of Human Relations Roney, Legal Counsel Arneson, Secretary Bonkowski, Government Relations Manager Christine Compton, Mr. Eric Akiyoshi, Mr. Ray Bennett, Mr. Matthew Veeh, Ms. Kellie Welch, Ms. Amy McNulty, Mr. Mike Rudinica, Mr. Jim Reed, and other members of the public and staff.

WRITTEN AND ORAL COMMUNICATIONS: None.

CONSENT CALENDAR

PRESENTATION

SUMMARY OF EMBEDDED ENERGY PLAN

Water and Energy Resource Planner Bennett presented objectives of the Embedded Energy Plan which he said will reduce embedded energy use over time; avoid energy expenses through water conservation; develop a pumping surcharge recommendation; estimate future energy use with conservation; and position IRWD to obtain energy utility funding for water conservation programs. Director Withers arrived at 5:13 p.m. Mr. Bennett reviewed several concept and terms along with energy accounting. Mr. Bennett reviewed the embedded energy plan components along with a chart showing historic energy intensity for potable, non-potable and wastewater systems. Ms. McNulty reviewed the historic embedded energy conservation activities from 2005 to present along with mapping tools.

Mr. Bennett provided an update on future baselines and a scenario analysis including embedded energy plan components, a chart showing a projected baseline for energy use, scenarios for future passive conservation and active conservation, a bar chart indicating total future energy use using various conservation activities. He further reviewed proposed next steps including the immediate steps which include an expert peer review, final report, and fact sheet for web site and sharing. He said the near term steps include an SCE pilot utility funding program, a CPUC energy calculator comparison, a SCE WET-PAG presentation, data collection recommendations, and pumping surcharge estimates. Following discussion, it was the consensus of the Board to hold a workshop to set up goals and targets.

## CONSENT CALENDAR

On MOTION by Matheis, seconded and unanimously carried, CONSENT CALENDAR ITEMS 4 THROUGH 7 WERE APPROVED AS PRESENTED

### 4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the October 26, 2015 Regular Board meeting be approved as presented.

### 5. 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.

### 6. DUDLEY RIDGE WATER DISTRICT PROPOSITION 218 NOTICE AND BALLOT

Recommendation: That the Board authorize the General Manager to submit an Official Assessment Ballot in support of the Dudley Ridge Water District proposed benefit assessments and standby charges as described in the Notice of Proposed Assessment.

### 7. ACWA 2015 MEMBERSHIP MEETING AND 2016-2017 ELECTION

Recommendation: That the Board support the slate of candidates selected by the ACWA Nominating Committee endorsing Ms. Kathleen Tieg for ACWA President and Mr. Brett Hastey for ACWA Vice President; support the proposed bylaw amendments; and designate Director Steven LaMar as IRWD's voting delegate for ACWA's December 2, 2015 membership meeting.

## ACTION CALENDAR

### REVIEW OF 2015 LEGISLATIVE ACTIVITIES AND 2016 LEGISLATIVE PLANNING

Government Relations Manager Compton reported on the 2015 legislative priorities which directed staff to engage in policy discussions to protect IRWD's revenues and the District's ability to use its allocation-based tiered rate structure to respond to the drought and water supply shortages. The priorities also directed staff to engage in discussions regarding implementation of the water bond, expanded use of recycled water, energy efficiency in the water and wastewater sectors, and groundwater management. Ms. Compton said that over the last year, staff and IRWD's state legislative advocate worked on each of these issues and other state issues of importance to the District including the emergency drought regulations, Proposition 218, storm-induced overflow restrictions, and other State Water Resources Control Board (SWRCB) regulations.

Ms. Compton said that at the federal level, IRWD and its federal legislative advocate have engaged on legislation defining environmental infrastructure projects, federal drought legislation, and implementation of the Water Resources Reform and Development Act. She said that as in

years past, the District has promoted the Syphon Reservoir Recycled Water Storage Project, and at the local level, IRWD continued to work to build stronger relationships with its community stakeholders.

Ms. Compton said that it is expected that Congress will tackle a number of issues of interest to the water and wastewater communities. Staff and IRWD's federal legislative advocate discussed the expected 2016 political environment and federal issues with the Committee. She then reported on: 1) defining environmental infrastructure projects; 2) implementation of the Water Resources Reform and Development Act; and 3) the Santa Ana Mountains to Sea National Monument Proposal. She reviewed expected 2016 Statewide legislative issues, including Cap-and-Trade Auction revenues; continued implementation of the 2014 Water Bond: public goods charge for water; Proposition 218 reforms: recycled water use in decorative lakes and storm-induced overflow restrictions; and the state budget.

Ms. Compton further reviewed expected 2016 government relations activities and staff resource allocations and expected 2016 association proposals.

Director Matheis said that this item was reviewed by the Water Resources Policy and Communications Committee on November 5, 2015. Following discussion, staff was asked to revisit legislative planning at an upcoming meeting with IRWD's federal and state legislative advocates. On MOTION by Matheis, seconded and unanimously carried, THE BOARD ADOPTED THE PROPOSED INITIAL 2016 LEGISLATIVE AND REGULATORY RESOURCE ALLOCATION PLAN AND THE LEGISLATIVE/REGULATORY ISSUES AND ACTIVITIES OF HIGH CONCERN TO IRWD IN 2016.

#### REVISED MWDOC RATE STRUCTURE POLICY POSITION PAPER

Executive Director of Water Policy Weghorst reported that in 2004, IRWD began producing policy position papers on topics of particular interest and importance to the District. Mr. Weghorst said to keep these position papers current, staff occasionally recommends that the Board review the papers, and when appropriate, incorporate revisions. He said that IRWD's MWDOC Rate Structure Policy Position Paper was last revised and adopted by the Board on October 2004. At that time, MWDOC collected volumetric based charges from its member agencies. In 2011, IRWD signed the *Agreement Between MWDOC and its Member Agencies on Budget, Activities, Charges, and Other Issues* that transitioned MWDOC to collecting fixed charges based on each member agency's number of retail service connections. In addition, MWDOC began charging its member agencies for *Core* and *Choice* services. The agreement will expire in 2016 and MWDOC is set to initiate a Cost of Service study that will be used to establish rates for its services upon expiration of the agreement. He then reviewed the updated the MWDOC Rate Structure Policy Position Paper provided in the exhibit. Director Swan provided comments on adding language relative to fixed charge fees. Following discussion, it was the consensus of the Board to table this item until the November 23, 2015 Board meeting.

## OTHER BUSINESS

### GENERAL MANAGER'S REPORT

General Manager Cook reported on today's conference call he and staff held with the State Water Resources Control Board staff relative to working on regulations for an Emergency Drought Report. He said they discussed concepts for NGO counts and equity credits as well as noting that that the emergency regulations currently do not support any water banking as an extraordinary supply which IRWD would like included, especially for the Strand Ranch.

### DIRECTORS' COMMENTS

Director Swan said that he attended his usual agency meetings as well as the annual Clarke Prize event.

Director Reinhart reported that he attended MWDOC's Board and Member Agency Elected Officials forum, and a SOCWA Board meeting where they hired a consultant to look at State Revolving Fund participation. He further said he was unable to attend the WACO meeting last Friday.

Director Matheis reported that she attended the October 2 Water Market discussion meeting and a WACO meeting.

Director LaMar said he did not attend the MWDOC Elected Officials Forum or last Friday's WACO meeting.

### CLOSED SESSION

President LaMar said that the following Closed Sessions would be held this evening:

- 1) CONFERENCE WITH REAL PROPERTY NEGOTIATOR relative to Government Code Section 54956.8  
Property: OCSD Service Area 7 Sewer Infrastructure  
Agency Negotiator: Paul Cook, General Manager  
Purpose of Negotiations: Proposed Acquisition of Property – Price and Terms, and
- 2) CONFERENCE WITH LABOR NEGOTIATOR pursuant to Government Code Section 54957.6.  
Agency Designated Representative: Steven LaMar  
Unrepresented Employee: Paul Cook

### OPEN SESSION

Following the Closed Session, the meeting was reconvened with Reinhart, Matheis, Withers, Swan, and LaMar present. President LaMar reported that relative to the first item, the Board by unanimous consent agreed to inform OC LAFCO in writing that IRWD is willing to include the

following language in future agreements regarding OCSD Service Area 7 with OC LAFCO, OCSD, and any other required agencies:

OCSD has planned and constructed regional conveyance and treatment facilities to serve Service Area 7. OCSD is contractually obligated to provide treated wastewater effluent from its entire service area, inclusive of Service Area 7, to Orange County Water District. IRWD and OCSD agree that all parcels in Service Area 7 shall continue to be customers of OCSD, and that the wastewater flows from these parcels will continue to flow for treatment as they currently flow. IRWD shall not divert the wastewater currently flowing to OCSD from Service Area 7 away from OCSD for any purpose, including but not limited to scalping wastewater for reuse.

The Board also agreed to communicate this decision to the Orange County Board of Supervisors.

President LaMar said that relative to the second item, by unanimous vote (5-0 ayes), EFFECTIVE OCTOBER 1, 2015, THE GENERAL MANAGER WAS GRANTED A \_\_\_\_% INCREASE OF HIS CURRENT BASE SALARY WITH THE DISCRETION TO APPLY THIS INCREASE TO HIS BASE SALARY AND/OR PERFORMANCE AWARD

ADJOURNMENT

President LaMar adjourned the meeting in memory of IRWD’s consultant Bruce Newell’s mother.

APPROVED and SIGNED this 23rd day of November, 2015.

\_\_\_\_\_  
President, IRVINE RANCH WATER DISTRICT

\_\_\_\_\_  
Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

\_\_\_\_\_  
Legal Counsel - Bowie, Arneson, Wiles & Giannone

November 23, 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

11/18/15 South Orange County Agencies Meeting  
11/18/15 Natural Community Coalition Meeting

Mary Aileen Matheis

11/18/15 OCBC's Red Carpet Awards Event  
11/18/15 OCWA Luncheon Meeting  
11/19/15 South Orange County Watershed Management Executive Committee Meeting  
11/21/15 IEEE Orange County Section Annual Awards Event  
11/30/15 Water Education Foundation Board Meeting

Douglas Reinhart

11/18/15 South Orange County Agencies Meeting  
11/18/15 OCWA Luncheon Meeting

Peer Swan

11/17/15 WACO Planning Committee Meeting  
11/18/15 MWDOC Board Meeting  
11/19/15 Exchange Club of Irvine Annual Thanksgiving Breakfast Meeting

John Withers

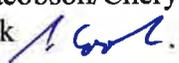
11/18/15 OCWA Luncheon Meeting

RECOMMENDATION:

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

LIST OF EXHIBITS:

None

November 23, 2015   
Prepared by: Jennifer Davis/Tanja Fournier   
Submitted by: Robert Jacobson/Cheryl Clary   
Approved by: Paul Cook 

CONSENT CALENDAR

OCTOBER 2015 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for October 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 October 31, 2015, as outlined in Exhibit “B”.
- C. The Summary of Payroll ACH payments in the total amount of \$2,329,412, as outlined in Exhibit “C”.
- D. The October 31, 2015 Disbursement Summary of warrants 361858 through 362728, wire transfers, Workers’ Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$37,445,122 as outlined in Exhibit “D”.
- E. The Disclosure Report of Reimbursements to Board Members and Staff for October 2015, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit “E”.

FISCAL IMPACTS:

As of October 31, 2015, the book value of the investment portfolio was \$239,869,678, with a 0.55% rate of return and a market value of \$239,884,914. 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 3.32%.

As of October 31, 2015, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in October from all swaps was negative \$623,075.

Payroll ACH payments totaled \$2,329,412, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for October totaled \$37,445,122.

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 OCTOBER 2015, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE OCTOBER 2015 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$2,329,412 AND APPROVE THE OCTOBER 2015 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 361858 THROUGH 362728, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$37,445,122.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" – Monthly Interest Rate Swap Summary

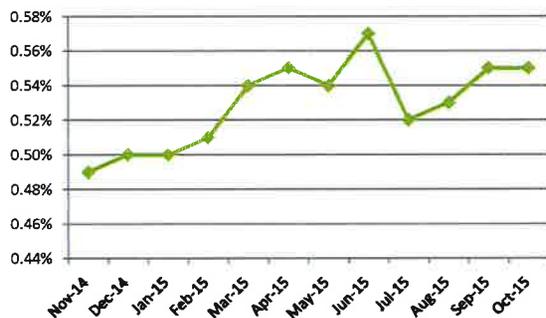
Exhibit "C" – Monthly Payroll ACH Summary

Exhibit "D" – Monthly Summary of District Disbursements

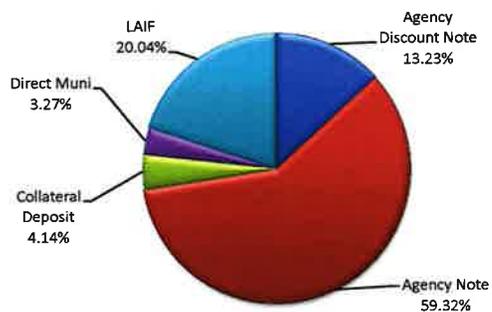
Exhibit "E" – Disclosure of Reimbursements to Board Members and Staff

Exhibit "A"  
**Irvine Ranch Water District  
Investment Portfolio Summary  
October 2015**

**Monthly Fixed Income Yield**



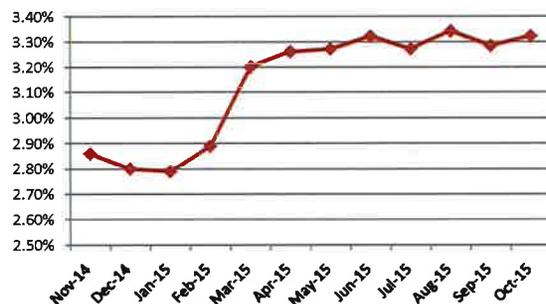
**Portfolio Distribution**



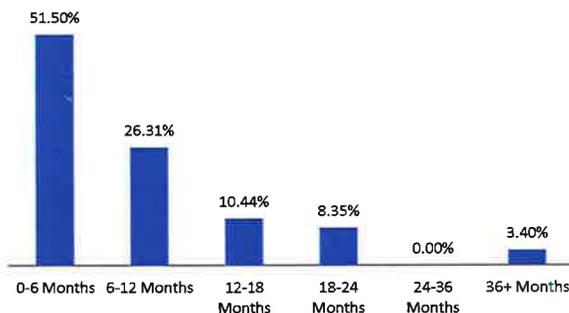
**Investment Summary**

Type	PAR	Book Value	Market Value
Agency Note	138,000,000	138,405,390	138,385,720
LAIF	50,000,000	50,000,000	50,029,732
Agency Discount Note	33,000,000	32,985,817	32,990,990
Collateral Deposit	10,320,582	10,320,582	10,320,582
Direct Muni	8,157,889	8,157,889	8,157,889
<b>Grand Total</b>	<b>239,478,471</b>	<b>239,869,678</b>	<b>239,884,914</b>

**Weighted Average Return Including Real Estate Portfolio**



**Maturity Distribution**



**Top Issuers**

Issuer	PAR	% Portfolio
Fed Home Loan Bank	71,000,000	29.65%
Fed Home Loan Mortgage Corp	50,000,000	20.88%
State of California Treasury - LAIF	50,000,000	20.88%
Fed Natl Mortgage Assoc	40,000,000	16.70%
ETWD	8,157,889	3.41%
Citi-Group Collateral	8,110,582	3.39%
Fed Ag Mortgage Corp	5,000,000	2.09%
Fed Farm Credit Bank	5,000,000	2.09%
Merrill Lynch Collateral	2,210,000	0.92%

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

10/31/15

SETTLMT *	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	YTFC	ORIGINAL COST	CARRY VALUE	MARKET VALUE <sup>(1)</sup> 10/31/2015	UNREALIZED <sup>(2)</sup> GAIN/(LOSS)
09/24/15			11/01/15		LAIF	State of California Tsy	\$50,000,000		0.330%		\$50,000,000.00	\$50,000,000.00	50,029,732.30	29,732.30
11/19/14	N/A	N/A	11/18/15	Aaa/NA/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.125%	0.193%		4,996,635.00	4,999,842.84	5,000,050.00	207.16
09/24/15	N/A	N/A	11/23/15	NR	FHLB - Discount Note	Fed Home Loan Bank Discount Note	8,000,000	0.100%	0.101%		7,998,666.67	7,999,511.11	7,999,840.00	328.89
10/09/14	N/A	N/A	12/01/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.270%	0.233%	0.233%	5,002,100.00	5,000,150.72	5,000,300.00	149.28
10/29/14	N/A	N/A	12/18/15	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.300%	0.200%	0.200%	5,005,670.00	5,000,642.14	5,000,950.00	307.86
05/27/14	N/A	N/A	12/21/15	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.375%	0.241%		5,010,450.00	5,000,911.87	5,001,200.00	288.13
01/15/13	N/A	07/15/13	01/15/16	NA/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	0.375%	0.390%		4,997,750.00	4,999,689.73	5,001,500.00	1,810.27
06/30/15	N/A	N/A	03/25/16	NR	FHLB - Discount Note	Fed Home Loan Bank Discount Note	5,000,000	0.150%	0.152%		4,995,645.83	4,998,229.23	4,998,950.00	720.77
07/29/15	N/A	N/A	02/24/16	NR	FHLMC - Discount Note	Fed Home Loan Mortgage Corp -Discount Note	10,000,000	0.175%	0.178%		9,989,791.67	9,994,409.72	9,996,200.00	1,790.28
04/28/15	N/A	N/A	02/26/16	NR	FNMA - Discount Note	Fed Natl Mortgage Discount Note	10,000,000	0.190%	0.193%		9,983,797.22	9,993,666.67	9,996,000.00	2,333.33
10/16/15	N/A	N/A	04/07/16	NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.220%	0.220%		5,000,000.00	5,000,000.00	4,996,950.00	(3,050.00)
05/20/15	N/A	N/A	05/04/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	3,000,000	0.300%	0.315%		2,999,565.00	2,999,770.07	3,000,270.00	499.93
10/14/15	N/A	N/A	05/13/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.500%	0.238%		5,007,600.00	5,006,954.72	5,005,000.00	(1,954.72)
05/20/15	N/A	N/A	05/18/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.250%	0.305%		4,997,285.00	4,998,515.70	4,995,300.00	(3,215.70)
05/20/15	N/A	N/A	05/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	2.500%	0.304%		5,111,650.00	5,062,260.59	5,060,400.00	(1,860.59)
06/04/15	N/A	N/A	06/20/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.340%	0.355%		4,999,200.00	4,999,514.14	4,997,250.00	(2,264.14)
07/01/15	N/A	N/A	06/24/16	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.375%	0.345%		5,001,450.00	5,000,953.20	4,998,550.00	(2,403.20)
11/20/14	N/A	N/A	06/27/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.375%	0.424%		4,996,091.65	4,998,403.26	4,999,300.00	896.74
05/08/14	N/A	N/A	07/05/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.375%	0.484%		4,988,300.00	4,996,337.26	5,000,600.00	4,262.74
06/09/15	N/A	N/A	08/25/16	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	2.000%	0.467%		10,184,900.00	10,124,379.68	10,125,900.00	1,520.32
10/19/15	N/A	N/A	09/28/16	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.250%	0.342%		10,085,280.00	10,082,094.25	10,069,000.00	(13,094.25)
06/15/15	N/A	N/A	10/13/16	NR	FAMCA - Note	Fed Ag Mortgage Corp	5,000,000	0.970%	0.578%		5,025,900.00	5,018,492.39	5,026,250.00	7,757.61
11/28/14	Quarterly	05/15/15	11/15/16	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.600%	0.600%	0.600%	5,000,000.00	5,000,000.00	5,000,500.00	500.00
09/21/15	N/A	N/A	12/09/16	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.532%		5,066,150.00	5,060,055.28	5,055,700.00	(4,355.28)
10/08/15	N/A	N/A	01/30/17	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	0.492%		5,049,445.00	5,046,972.75	5,041,600.00	(5,372.75)
09/21/15	N/A	N/A	02/22/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	0.570%		5,021,500.00	5,019,804.81	5,018,650.00	(1,154.81)
06/15/15	N/A	N/A	03/30/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.727%		4,990,950.00	4,992,873.47	4,996,950.00	4,076.53
08/27/15	N/A	N/A	05/30/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.625%	0.642%		4,998,500.00	4,998,654.21	4,995,350.00	(3,304.21)
09/16/15	One Time	03/15/16	09/15/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.900%	0.915%	0.960%	4,998,500.00	4,998,594.52	5,007,850.00	9,255.48
09/29/15	Continuous after	03/28/16	09/28/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.810%	0.815%		4,999,500.00	4,999,522.60	5,004,100.00	4,577.40
07/29/15	Continuous after	01/16/13	10/16/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	0.997%		5,000,000.00	5,000,000.00	4,986,250.00	(13,750.00)
05/30/15	N/A	N/A	04/30/36	NR	Direct Muni	ETWD	8,157,889	4.570%	4.570%	4.570%	8,157,889.19	8,157,889.19	8,157,889.19	
<b>SUB-TOTAL</b>							<b>\$229,157,889</b>				<b>\$229,660,162.23</b>	<b>\$229,549,096.12</b>	<b>\$229,564,331.49</b>	<b>\$15,235.37</b>
<b>RESTRICTED CASH (Swap Collateral Deposits)<sup>(3)</sup></b>														
10/01/15					Collateral Deposit	Citi-Group	\$8,110,582		0.070%		\$8,110,582.19	\$8,110,582.19	8,110,582.19	
05/29/15					Collateral Deposit	Merrill Lynch	\$2,210,000		0.070%		\$2,210,000.00	\$2,210,000.00	2,210,000.00	
<b>SUB-TOTAL</b>							<b>\$10,320,582</b>				<b>\$10,320,582.19</b>	<b>\$10,320,582.19</b>	<b>\$10,320,582.19</b>	
<b>TOTAL INVESTMENTS</b>							<b>\$239,478,471</b>				<b>\$239,980,744.42</b>	<b>\$239,869,678.31</b>	<b>\$239,884,913.68</b>	
				October	Petty Cash Ck Balance	Bank of America					3,400.00 2,012,819.97			
											<b>\$241,996,964.39</b>			

<sup>(1)</sup> LAIF market value is as of the most recent quarter-end as reported by LAIF.  
<sup>(2)</sup> Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.  
<sup>(3)</sup> Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers  
<sup>(4)</sup> Real estate rate of return is based on most recent quarter end return  
<sup>(5)</sup> Calculation excludes Direct Muni - ETWD  
<sup>(6)</sup> Swap Collateral Deposits assumes 6 month maturity, dependent on interest rate changes

Outstanding Variable Rate Debt \$319,800,000  
 \$189,800,000  
 \$241,996,964  
 128%  
 200

	Investment Portfolio	Real Estate <sup>(5)</sup> Portfolio	Weighted Avg. Return
October	0.55%	12.84%	3.32%
September	0.55%	12.84%	3.28%
Change			

This Investment Summary Report is in conformity with the 2015 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures  
 \*S - Step up

IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

10/31/15

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	Direct Muni
10/15	\$50,000,000	20.88%	\$50,000,000				
11/15	13,000,000	5.43%		5,000,000	8,000,000		
12/15	15,000,000	6.26%		15,000,000			
01/16	10,000,000	4.18%		5,000,000	5,000,000		
02/16	20,000,000	8.35%			20,000,000		
03/16	10,320,582	4.31%				\$10,320,582	
04/16	5,000,000	2.09%		5,000,000			
05/16	18,000,000	7.52%		18,000,000			
06/16	15,000,000	6.26%		15,000,000			
07/16	5,000,000	2.09%		5,000,000			
08/16	10,000,000	4.18%		10,000,000			
09/16	10,000,000	4.18%		10,000,000			
<b>SUB-TOTAL</b>	<b>\$181,320,582</b>	<b>75.71%</b>	<b>\$50,000,000</b>	<b>\$88,000,000</b>	<b>\$33,000,000</b>	<b>\$10,320,582</b>	
<b>13 Months - 3 YEARS</b>							
10/01/16 - 12/31/2016	15,000,000	6.26%		15,000,000			
1/1/2017 - 3/31/2017	15,000,000	6.26%		15,000,000			
04/01/17-06/30/17	5,000,000	2.09%		5,000,000			
07/01/17 - 9/30/2017	10,000,000	4.18%		10,000,000			
10/30/17 - 12/31/2017	5,000,000	2.09%		5,000,000			
	-						
	-						
04/30/2036	8,157,889	3.41%					8,157,889
<b>TOTALS</b>	<b>\$239,478,471</b>	<b>100.00%</b>	<b>\$50,000,000</b>	<b>\$138,000,000</b>	<b>\$33,000,000</b>	<b>\$10,320,582</b>	<b>\$8,157,889</b>

% OF PORTFOLIO

20.88%

57.63%

13.78%

4.31%

3.41%

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

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Sep-15</u>
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%
				<u>\$ 72,569,826</u>	<u>12.84%</u>

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT**  
**INVESTMENT ACTIVITY**  
**October 2015**

**MATURITIES/SALES/CALLS**

**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
10/14/2015	FHLB - Discount Note	\$5,000,000	0.09%	10/8/2015	1/30/2017	FNMA - Note	\$5,000,000	0.49%
10/19/2015	FFCB - Note	\$5,000,000	0.41%	10/14/2015	5/13/2016	FHLMC - Note	\$5,000,000	0.24%
10/19/2015	FFCB - Note	\$5,000,000	0.45%	10/16/2015	4/7/2016	FHLB - Note	\$5,000,000	0.22%
10/21/2015	FFCB - Note	\$5,000,000	0.55%	10/19/2015	9/28/2016	FNMA - Note	\$10,000,000	0.34%
10/23/2015	FHLB - Discount Note	\$4,000,000	0.12%					
10/28/2015	FHLMC-Note	\$10,000,000	0.82%					

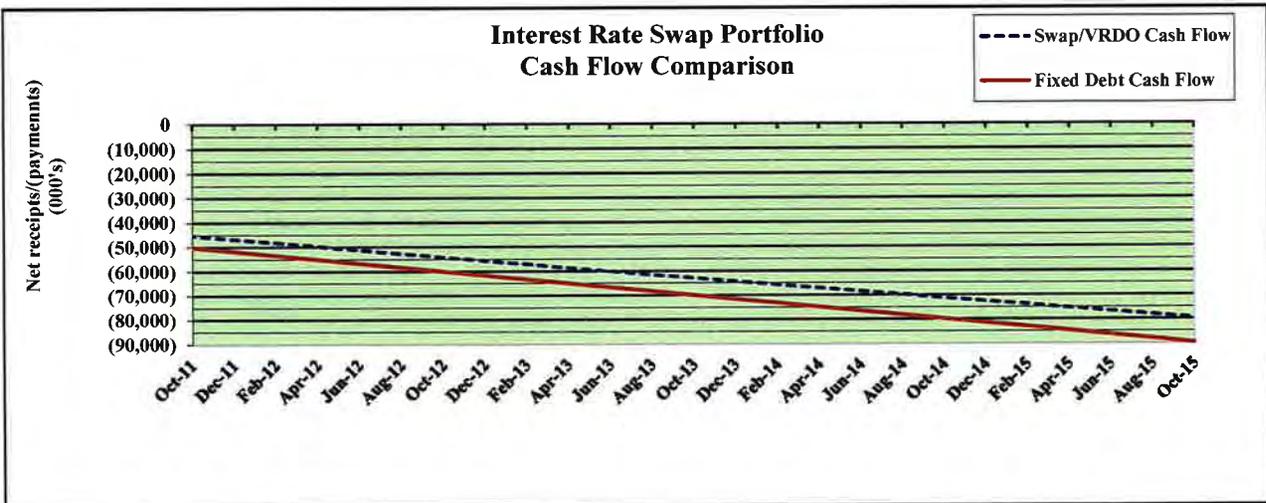
IRVINE RANCH WATER DISTRICT  
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL  
October 31, 2015

LIBOR Avg %	Prior Mo. 0.20%	Current Mo. 0.19%	12-Mo Avg 0.18%
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Current Fiscal Year Active Swaps								Cash Flow				(Since 6/06)	Mark to Market	
Effective Date	Maturity Date	Years to Maturity	Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference	
<b>Fixed Payer Swaps - By Effective Date</b>														
6/4/2006	6/4/2019	3.6	ML	\$ 20,000,000	FXP	LIBOR	6.200%	(96,527)	(100,085)	\$ (400,192)	\$ (9,055,159)	\$ 16,411,920	\$ (3,588,080)	
6/4/2006	6/4/2019	3.6	CG	20,000,000	FXP	LIBOR	6.200%	(96,527)	(100,085)	(400,192)	(9,055,159)	16,407,588	(3,592,412)	
6/17/2006	6/17/2019	3.6	CG	30,000,000	FXP	LIBOR	6.140%	(143,321)	(148,441)	(594,134)	(13,432,037)	24,630,498	(5,369,502)	
3/10/2007	3/10/2029	13.4	ML	30,000,000	FXP	LIBOR	5.687%	(132,447)	(137,232)	(548,998)	(12,058,806)	17,475,779	(12,524,221)	
3/10/2007	3/10/2029	13.4	CG	30,000,000	FXP	LIBOR	5.687%	(132,447)	(137,232)	(548,998)	(12,058,806)	17,415,038	(12,584,962)	
Totals/Weighted Avgs		8.1		\$ 130,000,000			5.949%	\$ (601,269)	\$ (623,075)	\$ (2,492,514)	\$ (55,659,968)	\$ 92,340,823	\$ (37,659,177)	
Total Current Year Active Swaps				\$ 130,000,000				\$ (601,269)	\$ (623,075)	\$ (2,492,514)	\$ (55,659,968)	\$ 92,340,823	\$ (37,659,177)	

Current Fiscal Year Terminated Swaps								Cash Flow				Mark to Market	
Effective Date	Maturity Date		Counter Party	Notional Amt	Type	Base Index	Fixed Rate	Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference
Total Current Year Terminated Swaps				\$ -				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
								Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference
Total Current Year Active & Terminated Swaps				\$ 130,000,000				\$ (601,269)	\$ (623,075)	\$ (2,492,514)	\$ (55,659,968)	\$ 92,340,823	\$ (37,659,177)



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$79,490,911
Fixed Rate =	\$96,275,887
<u>Assumptions:</u>	
- 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**

**October  
2015**

	AMOUNT	VENDOR	PURPOSE
10/2/2015	779,022.38	BANK OF AMERICA	ACH Payments for Payroll
10/16/2015	794,152.57	BANK OF AMERICA	ACH Payments for Payroll
10/30/2015	756,236.71	BANK OF AMERICA	ACH Payments for Payroll
	<u><b>\$2,329,411.66</b></u>		

Exhibit "D"

>

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 1  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361858		01-OCT-15	HELPMATES STAFFING	GIRVINE	8,070.71	05-OCT-15	8,070.71	Reconciled
361859		01-OCT-15	SERVICES		470.00	05-OCT-15	470.00	Reconciled
361860		01-OCT-15	Coria, Alejandro		20.75	01-OCT-15	20.75	Reconciled
361861		01-OCT-15	(Alex)		240.00	13-OCT-15	240.00	Reconciled
361862		01-OCT-15	Mossbarger,		1,028.33	06-OCT-15	1,028.33	Reconciled
361863		01-OCT-15	Anthony J (Tony)		162.00	05-OCT-15	162.00	Reconciled
361864		01-OCT-15	Leal, Eliberto		75.58	27-OCT-15	75.58	Reconciled
361865		01-OCT-15	(Eliberto)		55.00			Negotiable
361866		01-OCT-15	Amezcuca, Joshua E		2,436.29	05-OCT-15	2,436.29	Reconciled
361867		01-OCT-15	Guzman, Juan		175.75	05-OCT-15	175.75	Reconciled
361868		01-OCT-15	(Juan)		1,569.54	05-OCT-15	1,569.54	Reconciled
361869		01-OCT-15	Hoffman, Michael S		520.62	05-OCT-15	520.62	Reconciled
361870		01-OCT-15	(Mike)		1,383.81	05-OCT-15	1,383.81	Reconciled
361871		01-OCT-15	Perez, Rodolfo		3,000.00	05-OCT-15	3,000.00	Reconciled
361872		01-OCT-15	(Rudy)					
361873		01-OCT-15	Garcia, Sandra E		9,563.52	13-OCT-15	9,563.52	Reconciled
361874		01-OCT-15	(Sandra)		1,040.00	05-OCT-15	1,040.00	Reconciled
361875		01-OCT-15	Sidlin, Wayne		95,310.00	09-OCT-15	95,310.00	Reconciled
361876		01-OCT-15	4IMPRINT, INC.		400.00	05-OCT-15	400.00	Reconciled
361877		01-OCT-15	AAF INTERNATIONAL		276.93	05-OCT-15	276.93	Reconciled
361878		01-OCT-15	AIRGAS, INC.		54,922.11	13-OCT-15	54,922.11	Reconciled
361879		01-OCT-15	ALLIANCE					
361880		01-OCT-15	APPRAISAL, LLC		749.42	07-OCT-15	749.42	Reconciled
361881		01-OCT-15	ALLIANT INSURANCE		3,000.00	16-OCT-15	3,000.00	Reconciled
361882		01-OCT-15	SERVICES, INC		471.23	07-OCT-15	471.23	Reconciled
361883		01-OCT-15	ALPHA TRAFFIC		977.50	06-OCT-15	977.50	Reconciled
361884		01-OCT-15	SERVICES, INC.		1,316.00	06-OCT-15	1,316.00	Reconciled
361885		01-OCT-15	ANDERSONPENNA		27,498.47	13-OCT-15	27,498.47	Reconciled
361886		01-OCT-15	PARTNERS, INC					
361887		01-OCT-15	ANTHONY N. LARSEN		2,183.84	06-OCT-15	2,183.84	Reconciled
361888		01-OCT-15	APCO GRAPHICS INC		912.61	05-OCT-15	912.61	Reconciled
361889		01-OCT-15	AQUA-METRIC SALES					
361890		01-OCT-15	COMPANY					
361891		01-OCT-15	ARC					
361892		01-OCT-15	ASSOCIATION OF					
361893		01-OCT-15	CALIFORNIA CITIES					
361894		01-OCT-15	AT&T					
361895		01-OCT-15	BILL'S SWEEPING					
361896		01-OCT-15	SERVICE INC					
361897		01-OCT-15	BRUCE NEWELL					
361898		01-OCT-15	C WELLS PIPELINE					
361899		01-OCT-15	MATERIALS INC					
361900		01-OCT-15	CALIFORNIA					
361901		01-OCT-15	BARRICADE INC					
361902		01-OCT-15	CANON FINANCIAL					
361903		01-OCT-15	SERVICES, INC					

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 2  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361886		01-OCT-15	CANON SOLUTIONS		2,282.17	05-OCT-15	2,282.17	Reconciled
361887		01-OCT-15	AMERICA, INC.		620.29	06-OCT-15	620.29	Reconciled
361888		01-OCT-15	CERTIFIED		1,000.00	07-OCT-15	1,000.00	Reconciled
361889		01-OCT-15	TRANSPORTATION		1,730.00	06-OCT-15	1,730.00	Reconciled
361890		01-OCT-15	CLEANTECH OC		3,191.68	05-OCT-15	3,191.68	Reconciled
361891		01-OCT-15	CONDITION		71.52	08-OCT-15	71.52	Reconciled
361892		01-OCT-15	MONITORING		3,615.34	13-OCT-15	3,615.34	Reconciled
361893		01-OCT-15	SERVICES INC		16,516.93	08-OCT-15	16,516.93	Reconciled
361894		01-OCT-15	COX COMMUNICATIONS		26,958.35	09-OCT-15	26,958.35	Reconciled
361895		01-OCT-15	DATAZEO, INC.		4,574.78	19-OCT-15	4,574.78	Reconciled
361896		01-OCT-15	DEE JASPAR &		4,850.00	06-OCT-15	4,850.00	Reconciled
361897		01-OCT-15	ASSOCIATES, INC.		14,582.50	08-OCT-15	14,582.50	Reconciled
361898		01-OCT-15	DMS FACILITY					
361899		01-OCT-15	SERVICES, INC.					
361900		01-OCT-15	DUDEK					
361901		01-OCT-15	EAST ORANGE COUNTY					
361902		01-OCT-15	WATER DISTRICT					
361903		01-OCT-15	ELECTRICAL SYSTEMS					
361904		01-OCT-15	ENGINEERING CO					
361905		01-OCT-15	ENVIRONMENTAL					
361906		01-OCT-15	ENGINEERING AND					
361907		01-OCT-15	CONTRACTING, INC.					
361908		01-OCT-15	ENVIRONMENTAL					
361909		01-OCT-15	SCIENCE ASSOCIATES					
361910		01-OCT-15	EVANS-HYDRO INC					

361900	01-OCT-15	EXECUTIVE LIGHTING & ELECTRIC		1,176.98	06-OCT-15	1,176.98	Reconciled
361901	01-OCT-15	FEDEX		766.21	05-OCT-15	766.21	Reconciled
361902	01-OCT-15	FIDELITY NATIONAL TITLE		29.86	30-OCT-15	29.86	Reconciled
361903	01-OCT-15	FIRE EXTINGUISHING SAFETY & SERVICE		169.92	13-OCT-15	169.92	Reconciled
361904	01-OCT-15	FISHER SCIENTIFIC COMPANY LLC		450.84	05-OCT-15	450.84	Reconciled
361905	01-OCT-15	FRANCHISE TAX BOARD		6,000.00	07-OCT-15	6,000.00	Reconciled
361906	01-OCT-15	FRANCHISE TAX BOARD		800.00	07-OCT-15	800.00	Reconciled
361907	01-OCT-15	GANAHL LUMBER CO.		3,581.58	08-OCT-15	3,581.58	Reconciled
361908	01-OCT-15	GRAINGER		8,589.78	05-OCT-15	8,589.78	Reconciled
361909	01-OCT-15	GRAYBAR ELECTRIC COMPANY		976.77	05-OCT-15	976.77	Reconciled
361910	01-OCT-15	HACH COMPANY		797.98	05-OCT-15	797.98	Reconciled
361911	01-OCT-15	HACKETT PRINTING		162.54	06-OCT-15	162.54	Reconciled
361912	01-OCT-15	HDR ENGINEERING INC		50,068.82	09-OCT-15	50,068.82	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361913		01-OCT-15	HELPMATES STAFFING SERVICES		16,634.91	07-OCT-15	16,634.91	Reconciled
361914		01-OCT-15	HILL BROTHERS CHEMICAL COMPANY		8,575.95	06-OCT-15	8,575.95	Reconciled
361915		01-OCT-15	HOME DEPOT USA INC		465.92	06-OCT-15	465.92	Reconciled
361916		01-OCT-15	IRVINE PIPE & SUPPLY INC		4,796.50	05-OCT-15	4,796.50	Reconciled
361917		01-OCT-15	IRWD-PETTY CASH CUSTODIAN		809.24	02-OCT-15	809.24	Reconciled
361918		01-OCT-15	JCI JONES CHEMICALS INC		3,078.30	05-OCT-15	3,078.30	Reconciled
361919		01-OCT-15	KENT & AMY DAHLBERG		3,624.80	06-OCT-15	3,624.80	Reconciled
361920		01-OCT-15	KLEINFELDER, INC.		5,513.93	05-OCT-15	5,513.93	Reconciled
361921		01-OCT-15	LIM, KRISTIN		25.71			Negotiable
361922		01-OCT-15	MARK ENTERPRISES, INC.		10,256.60	08-OCT-15	10,256.60	Reconciled
361923		01-OCT-15	MC FADDEN-DALE INDUSTRIAL		102.97	06-OCT-15	102.97	Reconciled
361924		01-OCT-15	MC MASTER CARR SUPPLY CO		3,060.37	05-OCT-15	3,060.37	Reconciled
361925		01-OCT-15	MECHANICAL SEAL REPAIR INC		1,414.55	09-OCT-15	1,414.55	Reconciled
361926		01-OCT-15	MORTON SAFETY CO		21,573.00	08-OCT-15	21,573.00	Reconciled
361927		01-OCT-15	MR CRANE INC		480.00	05-OCT-15	480.00	Reconciled
361928		01-OCT-15	MSC INDUSTRIAL SUPPLY CO		680.19	16-OCT-15	680.19	Reconciled
361929		01-OCT-15	NATIONAL READY MIXED CONCRETE CO.		2,611.36	05-OCT-15	2,611.36	Reconciled
361930		01-OCT-15	NAVIGANT CONSULTING, INC		5,546.00	05-OCT-15	5,546.00	Reconciled
361931		01-OCT-15	NGO, KELLY		46.79			Negotiable
361932		01-OCT-15	NOVALYNX CORPORATION		472.99	08-OCT-15	472.99	Reconciled
361933		01-OCT-15	OLIN CORPORATION		13,782.46	08-OCT-15	13,782.46	Reconciled
361934		01-OCT-15	ORANGE COUNTY SANITATION DISTRICT		4,570.00			Negotiable
361935		01-OCT-15	ORANGE COUNTY VECTOR CONTROL DISTRICT		6,988.22	13-OCT-15	6,988.22	Reconciled
361936		01-OCT-15	PAC RIM ENGINEERING		4,625.00	07-OCT-15	4,625.00	Reconciled
361937		01-OCT-15	PAYNE & FEARS LLP		12,039.12	07-OCT-15	12,039.12	Reconciled
361938		01-OCT-15	PRAXAIR DISTRIBUTION INC		4,302.25	06-OCT-15	4,302.25	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361939		01-OCT-15	PTI SAND & GRAVEL INC		1,051.35	05-OCT-15	1,051.35	Reconciled
361940		01-OCT-15	PURE EFFECT INC		595.00	07-OCT-15	595.00	Reconciled
361941		01-OCT-15	QUICK MANUFACTURING INC		298.78	15-OCT-15	298.78	Reconciled
361942		01-OCT-15	RAM AIR		405.00	06-OCT-15	405.00	Reconciled

361943	01-OCT-15	ENGINEERING INC RMC WATER AND ENVIRONMENT	1,573.54	05-OCT-15	1,573.54	Reconciled
361944	01-OCT-15	ROBERT HALF INTERNATIONAL, INC.	7,155.00	05-OCT-15	7,155.00	Reconciled
361945	01-OCT-15	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT	473,460.27	09-OCT-15	473,460.27	Reconciled
361946	01-OCT-15	SANDERS PAVING INC	34,486.00	09-OCT-15	34,486.00	Reconciled
361947	01-OCT-15	SANTA ANA BLUE PRINT	947.65	06-OCT-15	947.65	Reconciled
361948	01-OCT-15	SEAL ANALYTICAL INC	9,800.00	05-OCT-15	9,800.00	Reconciled
361949	01-OCT-15	SHERWIN WILLIAMS COMPANY	227.45	06-OCT-15	227.45	Reconciled
361950	01-OCT-15	SNAP-ON INCORPORATED	63.13	06-OCT-15	63.13	Reconciled
361951	01-OCT-15	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	1,247.16	15-OCT-15	1,247.16	Reconciled
361952	01-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY	485,220.19	05-OCT-15	485,220.19	Reconciled
361953	01-OCT-15	SPARKLETTES	290.64	09-OCT-15	290.64	Reconciled
361954	01-OCT-15	STANDARD REGISTER COMPANY	2,571.59	05-OCT-15	2,571.59	Reconciled
361955	01-OCT-15	STANFORD COURT APARTMENTS	171.76	14-OCT-15	171.76	Reconciled
361956	01-OCT-15	STANTEC CONSULTING SERVICES INC.	14,268.00	08-OCT-15	14,268.00	Reconciled
361957	01-OCT-15	STARLING, RONALD	282.76	13-OCT-15	282.76	Reconciled
361958	01-OCT-15	TAIT ENVIRONMENTAL SERVICES INC	258.20	05-OCT-15	258.20	Reconciled
361959	01-OCT-15	THOMPSON INDUSTRIAL SUPPLY	230.86	06-OCT-15	230.86	Reconciled
361960	01-OCT-15	TIC-IPG-COMMON	2,112.83	13-OCT-15	2,112.83	Reconciled
361961	01-OCT-15	TIC-OFFICE PROPERTIES	519.37	13-OCT-15	519.37	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361962		01-OCT-15	TIC-SPECTRUM OFFICE		1,572.23	13-OCT-15	1,572.23	Reconciled
361963		01-OCT-15	TRABUCO CANYON WATER DISTRICT		71,766.56	07-OCT-15	71,766.56	Reconciled
361964		01-OCT-15	TRI COUNTY PUMP COMPANY		21,456.40	07-OCT-15	21,456.40	Reconciled
361965		01-OCT-15	TSAO, YEN CHUN		136.00	06-OCT-15	136.00	Reconciled
361966		01-OCT-15	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		170.00	05-OCT-15	170.00	Reconciled
361967		01-OCT-15	ULINE INC		316.72	07-OCT-15	316.72	Reconciled
361968		01-OCT-15	ULTRA SCIENTIFIC		933.77	06-OCT-15	933.77	Reconciled
361969		01-OCT-15	UNITED PARCEL SERVICE INC		93.36	05-OCT-15	93.36	Reconciled
361970		01-OCT-15	USA BLUEBOOK		228.16	06-OCT-15	228.16	Reconciled
361971		01-OCT-15	VA CONSULTING, INC		1,760.00	08-OCT-15	1,760.00	Reconciled
361972		01-OCT-15	VAUGHAN'S INDUSTRIAL REPAIR CO INC		31,856.00	07-OCT-15	31,856.00	Reconciled
361973		01-OCT-15	VCS ENVIRONMENTAL		1,379.53	05-OCT-15	1,379.53	Reconciled
361974		01-OCT-15	VERIZON CALIFORNIA INC		308.50	06-OCT-15	308.50	Reconciled
361975		01-OCT-15	VERIZON WIRELESS SERVICES LLC		3,445.75	06-OCT-15	3,445.75	Reconciled
361976		01-OCT-15	VRIDE INC		20,569.67	08-OCT-15	20,569.67	Reconciled
361977		01-OCT-15	WACO FILTERS CORPORATION		2,648.16	06-OCT-15	2,648.16	Reconciled
361978		01-OCT-15	WALTERS WHOLESale ELECTRIC		1,996.46	06-OCT-15	1,996.46	Reconciled
361979		01-OCT-15	WATERLINE TECHNOLOGIES INC		1,991.52	05-OCT-15	1,991.52	Reconciled
361980		01-OCT-15	WAXIE'S ENTERPRISES, INC		455.92	05-OCT-15	455.92	Reconciled
361981		01-OCT-15	WECK LABORATORIES INC		225.00	13-OCT-15	225.00	Reconciled
361982		01-OCT-15	WESTERN EXTERMINATOR COMPANY		588.00	20-OCT-15	588.00	Reconciled
361983		01-OCT-15	WESTERN WATER WORKS SUPPLY COMPANY		152.77	06-OCT-15	152.77	Reconciled
361984		01-OCT-15	Vazquez, Rafael		211.52	06-OCT-15	211.52	Reconciled
361985		01-OCT-15	SUSAN A. SIROTA	3 TITAN	8,390.00	13-OCT-15	8,390.00	Reconciled
361986		08-OCT-15	Kelly, Cheryl D (Cheryl)		126.51	13-OCT-15	126.51	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
361987		08-OCT-15	Burton, Kevin L (Kevin)		21.50	13-OCT-15	21.50	Reconciled
361988		08-OCT-15	Oldewage, Lars D (Lars)		1,747.01	13-OCT-15	1,747.01	Reconciled
361989		08-OCT-15	Savedra, Nancy H (Nancy)		106.91	08-OCT-15	106.91	Reconciled
361990		08-OCT-15	Moore, Rory M (Rory)		164.00			Negotiable
361991		08-OCT-15	Fournier, Tanja L (Tanja)		240.53	13-OCT-15	240.53	Reconciled
361992		08-OCT-15	Perez, Rodolfo (Rudy)	HOME	48.40			Negotiable
361993		08-OCT-15	CANON SOLUTIONS AMERICA, INC.	LOS ANGELES	3,076.50	13-OCT-15	3,076.50	Reconciled
361994		08-OCT-15	CANON SOLUTIONS AMERICA, INC.	LOS ANGELES	4,043.31	13-OCT-15	4,043.31	Reconciled
361995		08-OCT-15	SHAPIRO, MARY	PAY	268.29	08-OCT-15	268.29	Reconciled
361996		08-OCT-15	ACCURATE AIR ENGINEERING INC		3,650.17	14-OCT-15	3,650.17	Reconciled
361997		08-OCT-15	AKM CONSULTING ENGINEERS, INC.		2,550.00	14-OCT-15	2,550.00	Reconciled
361998		08-OCT-15	ALEXANDER'S CONTRACT SERVICES, INC.		109,095.12	16-OCT-15	109,095.12	Reconciled
361999		08-OCT-15	ALL AMERICAN SEWER TOOLS		1,029.77	16-OCT-15	1,029.77	Reconciled
362000		08-OCT-15	ALPHA TRAFFIC SERVICES, INC.		520.00	14-OCT-15	520.00	Reconciled
362001		08-OCT-15	ANIXTER INC		4,644.00	13-OCT-15	4,644.00	Reconciled
362002		08-OCT-15	ANTHEM BLUE CROSS		415.62	14-OCT-15	415.62	Reconciled
362003		08-OCT-15	ANTHEM BLUE CROSS		1,089.40	14-OCT-15	1,089.40	Reconciled
362004		08-OCT-15	ANTHEM BLUE CROSS		2,012.80	14-OCT-15	2,012.80	Reconciled
362005		08-OCT-15	ANTHONY SUFFREDINI		1,200.00	13-OCT-15	1,200.00	Reconciled
362006		08-OCT-15	APPLIED TECHNOLOGY GROUP INC		8,916.22	13-OCT-15	8,916.22	Reconciled
362007		08-OCT-15	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		32,572.03	19-OCT-15	32,572.03	Reconciled
362008		08-OCT-15	AT&T		51.88	13-OCT-15	51.88	Reconciled
362009		08-OCT-15	AT&T		4,429.29	13-OCT-15	4,429.29	Reconciled
362010		08-OCT-15	AUTOZONE PARTS, INC.		434.98	15-OCT-15	434.98	Reconciled
362011		08-OCT-15	BATTERIES PLUS AND BATTERIES PLUS BULBS		245.53	13-OCT-15	245.53	Reconciled
362012		08-OCT-15	BIOMAGIC INC		12,420.86	16-OCT-15	12,420.86	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362013		08-OCT-15	BLACK & VEATCH CORPORATION		295,937.35	19-OCT-15	295,937.35	Reconciled
362014		08-OCT-15	BOYD & ASSOCIATES		300.00	14-OCT-15	300.00	Reconciled
362015		08-OCT-15	BOZORGINA, RANA		126.45	22-OCT-15	126.45	Reconciled
362016		08-OCT-15	BRITHNEE ELECTRIC		9,116.28	13-OCT-15	9,116.28	Reconciled
362017		08-OCT-15	BRYANT, KATIE		317.31			Negotiable
362018		08-OCT-15	C WELLS PIPELINE MATERIALS INC		4,070.31	16-OCT-15	4,070.31	Reconciled
362019		08-OCT-15	CALIFORNIA BARRICADE INC		11,232.80	19-OCT-15	11,232.80	Reconciled
362020		08-OCT-15	CALIFORNIA COUNCIL FOR ENVIRONMENTAL AND ECONOMIC BALANCE		22,000.00	20-OCT-15	22,000.00	Reconciled
362021		08-OCT-15	CANON FINANCIAL SERVICES, INC		1,252.82	13-OCT-15	1,252.82	Reconciled
362022		08-OCT-15	CANON FINANCIAL SERVICES, INC		8,860.67	13-OCT-15	8,860.67	Reconciled
362023		08-OCT-15	CANON SOLUTIONS AMERICA, INC.		8,980.60	13-OCT-15	8,980.60	Reconciled
362024		08-OCT-15	CAPTIVE AUDIENCE MARKETING INC.		123.12	14-OCT-15	123.12	Reconciled
362025		08-OCT-15	CDW GOVERNMENT LLC		3,174.00	13-OCT-15	3,174.00	Reconciled
362026		08-OCT-15	CHARLES P CROWLEY COMPANY INC		29,771.76	22-OCT-15	29,771.76	Reconciled
362027		08-OCT-15	CHIN, AN-NA		29.73	14-OCT-15	29.73	Reconciled
362028		08-OCT-15	CITY OF SANTA ANA		55,789.89	20-OCT-15	55,789.89	Reconciled

362029	08-OCT-15	CITY OF TUSTIN	246.57	13-OCT-15	246.57	Reconciled
362030	08-OCT-15	CLEARINGHOUSE	477.67	16-OCT-15	477.67	Reconciled
362031	08-OCT-15	COUNTY CIRCUIT BREAKERS	199.80	15-OCT-15	199.80	Reconciled
362032	08-OCT-15	CREDENTIAL CHECK CORPORATION	73.92	14-OCT-15	73.92	Reconciled
362033	08-OCT-15	CUMMINS PACIFIC, LLC	200.00	13-OCT-15	200.00	Reconciled
362034	08-OCT-15	CURT PRINGLE AND ASSOCIATES	10,000.00	20-OCT-15	10,000.00	Reconciled
362035	08-OCT-15	DATA CLEAN CORPORATION	526.50	15-OCT-15	526.50	Reconciled
362036	08-OCT-15	DELL MARKETING LP	2,980.57	13-OCT-15	2,980.57	Reconciled
362037	08-OCT-15	DERAMBAHAH, MAHDI	23.07	14-OCT-15	23.07	Reconciled
362038	08-OCT-15	DEX MEDIA INC.	75.75	16-OCT-15	75.75	Reconciled
362039	08-OCT-15	DOE, ERIN	30.06	14-OCT-15	30.06	Reconciled
362040	08-OCT-15	E.J. MEYER COMPANY, INC.	51,206.81	15-OCT-15	51,206.81	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362041		08-OCT-15	E.J. MEYER COMPANY, INC.		972,929.39	15-OCT-15	972,929.39	Reconciled
362042		08-OCT-15	EI&C ENGINEERING INC		25,650.00	19-OCT-15	25,650.00	Reconciled
362043		08-OCT-15	EMPLOYEE BENEFIT SPECIALIST, INC		1,050.00	16-OCT-15	1,050.00	Reconciled
362044		08-OCT-15	ENDRESS AND HAUSER INC		9,950.00	14-OCT-15	9,950.00	Reconciled
362045		08-OCT-15	ENVIRONMENTAL EXPRESS INC		223.93	13-OCT-15	223.93	Reconciled
362046		08-OCT-15	ENVIRONMENTAL RESOURCE ASSOCIATES		402.09	15-OCT-15	402.09	Reconciled
362047		08-OCT-15	EXECUTIVE LIGHTING & ELECTRIC		453.87	14-OCT-15	453.87	Reconciled
362048		08-OCT-15	FARRELL & ASSOCIATES		865.20	16-OCT-15	865.20	Reconciled
362049		08-OCT-15	FIDELITY NATIONAL TITLE		44.16			Negotiable
362050		08-OCT-15	FIDELITY SECURITY LIFE INSURANCE COMPANY		6,250.19	16-OCT-15	6,250.19	Reconciled
362051		08-OCT-15	FIRST CHOICE SERVICES		431.62	15-OCT-15	431.62	Reconciled
362052		08-OCT-15	FISERV		287.50	09-OCT-15	287.50	Reconciled
362053		08-OCT-15	FISHER SCIENTIFIC COMPANY LLC		971.22	13-OCT-15	971.22	Reconciled
362054		08-OCT-15	FLW, INC.		9,257.45	14-OCT-15	9,257.45	Reconciled
362055		08-OCT-15	FRANCHISE TAX BOARD		423.33	16-OCT-15	423.33	Reconciled
362056		08-OCT-15	FRANCISCO, RICARDO		16.57	19-OCT-15	16.57	Reconciled
362057		08-OCT-15	GANAHL LUMBER CO.		53.84	15-OCT-15	53.84	Reconciled
362058		08-OCT-15	GHD INC.		34,698.93	16-OCT-15	34,698.93	Reconciled
362059		08-OCT-15	GJ AUTOMOTIVE EQUIPMENT CO INC		205.20	16-OCT-15	205.20	Reconciled
362060		08-OCT-15	GRAINGER		3,228.00	13-OCT-15	3,228.00	Reconciled
362061		08-OCT-15	GREAT PACIFIC EQUIPMENT INC		2,125.00	13-OCT-15	2,125.00	Reconciled
362062		08-OCT-15	H2O INNOVATION USA INC		3,959.28	15-OCT-15	3,959.28	Reconciled
362063		08-OCT-15	HAAKER EQUIPMENT COMPANY		549.69	13-OCT-15	549.69	Reconciled
362064		08-OCT-15	HACH COMPANY		2,584.66	13-OCT-15	2,584.66	Reconciled
362065		08-OCT-15	HARDY & HARPER INC		25,800.00	15-OCT-15	25,800.00	Reconciled
362066		08-OCT-15	HDR ENGINEERING INC		23,326.38	19-OCT-15	23,326.38	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 9  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362067		08-OCT-15	HELPMATES STAFFING SERVICES		13,593.15	15-OCT-15	13,593.15	Reconciled
362068		08-OCT-15	HILL BROTHERS CHEMICAL COMPANY		8,869.55	15-OCT-15	8,869.55	Reconciled
362069		08-OCT-15	HOME DEPOT USA INC		1,420.34	13-OCT-15	1,420.34	Reconciled
362070		08-OCT-15	HOPKINS TECHNICAL PRODUCTS INC		5,806.84	14-OCT-15	5,806.84	Reconciled
362071		08-OCT-15	HSG INC		1,536.00	13-OCT-15	1,536.00	Reconciled
362072		08-OCT-15	IBM CORPORATION		254.00	13-OCT-15	254.00	Reconciled

362073	08-OCT-15	IRVINE PACIFIC, LP	633.01	28-OCT-15	633.01	Reconciled
362074	08-OCT-15	IRVINE PIPE & SUPPLY INC	1,919.77	13-OCT-15	1,919.77	Reconciled
362075	08-OCT-15	IRVINE RANCH CONSERVANCY	500.00	26-OCT-15	500.00	Reconciled
362076	08-OCT-15	IRWD EMPLOYEE ASSOCIATION	860.00	13-OCT-15	860.00	Reconciled
362077	08-OCT-15	JACOBS PROJECT MANAGEMENT CO.	28,000.00	19-OCT-15	28,000.00	Reconciled
362078	08-OCT-15	JCI JONES CHEMICALS INC	5,505.50	13-OCT-15	5,505.50	Reconciled
362079	08-OCT-15	JOHN MICHAEL COVAS	194.20	27-OCT-15	194.20	Reconciled
362080	08-OCT-15	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES	4,220.00	13-OCT-15	4,220.00	Reconciled
362081	08-OCT-15	KIM, TAE YOUNG	177.23			Negotiable Cleared
362082	08-OCT-15	KIMBALL MIDWEST	1,865.19	31-OCT-15	1,865.19	Reconciled
362083	08-OCT-15	KLEINFELDER, INC.	12,292.24	15-OCT-15	12,292.24	Reconciled
362084	08-OCT-15	LANDCARE HOLDINGS, INC.	2,578.33	13-OCT-15	2,578.33	Reconciled
362085	08-OCT-15	LEWIS BRISBOIS BISGAARD AND SMITH, LLP	33,745.53	16-OCT-15	33,745.53	Reconciled
362086	08-OCT-15	LI, BENJAMIN	160.45	26-OCT-15	160.45	Reconciled
362087	08-OCT-15	LIN, CANRAN	140.47	23-OCT-15	140.47	Reconciled
362088	08-OCT-15	LU'S LIGHTHOUSE, INC.	662.52	13-OCT-15	662.52	Reconciled
362089	08-OCT-15	LU, CHIACHI	425.46	27-OCT-15	425.46	Reconciled
362090	08-OCT-15	MAG-TROL LONG BEACH INC	572.58	23-OCT-15	572.58	Reconciled
362091	08-OCT-15	MARK ENTERPRISES, INC.	10,113.60	15-OCT-15	10,113.60	Reconciled
362092	08-OCT-15	MARVIN GARDENS LLC	146.45	08-OCT-15	146.45	Reconciled
362093	08-OCT-15	MBC APPLIED ENVIRONMENTAL SCIENCES	1,300.00	14-OCT-15	1,300.00	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 10  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362094		08-OCT-15	MC MASTER CARR SUPPLY CO		968.04	14-OCT-15	968.04	Reconciled
362095		08-OCT-15	MCR TECHNOLOGIES INC		27,124.74	19-OCT-15	27,124.74	Reconciled
362096		08-OCT-15	MORA, LANCE		863.88	13-OCT-15	863.88	Reconciled
362097		08-OCT-15	MORAN, SHEILA		14.40	21-OCT-15	14.40	Reconciled
362098		08-OCT-15	MORGAN COMPANY		860.52	13-OCT-15	860.52	Reconciled
362099		08-OCT-15	MR CRANE INC		2,226.00	13-OCT-15	2,226.00	Reconciled
362100		08-OCT-15	MUNICIPAL MAINTENANCE EQUIPMENT INC		254.28	13-OCT-15	254.28	Reconciled
362101		08-OCT-15	MUTUAL PROPANE		56.99	14-OCT-15	56.99	Reconciled
362102		08-OCT-15	MY FIRST MONTESSORI PRESCHOOL		2,544.97	16-OCT-15	2,544.97	Reconciled
362103		08-OCT-15	MYERS & SONS HI-WAY SAFETY, INC.		472.50	13-OCT-15	472.50	Reconciled
362104		08-OCT-15	NATIONAL READY MIXED CONCRETE CO.		4,504.15	13-OCT-15	4,504.15	Reconciled
362105		08-OCT-15	NATURES IMAGE INC		1,033.83	14-OCT-15	1,033.83	Reconciled
362106		08-OCT-15	NEPTUNE TECHNOLOGY GROUP, INC.		75,129.12	19-OCT-15	75,129.12	Reconciled
362107		08-OCT-15	NEWAGE INDUSTRIES INC		143.72	13-OCT-15	143.72	Reconciled
362108		08-OCT-15	NEWPORT PLASTIC		727.14	19-OCT-15	727.14	Reconciled
362109		08-OCT-15	NINYO & MOORE		28,150.00	15-OCT-15	28,150.00	Reconciled
362110		08-OCT-15	O'HAREN GOVERNMENT RELATIONS		6,500.00	14-OCT-15	6,500.00	Reconciled
362111		08-OCT-15	OLIN CORPORATION		16,982.91	16-OCT-15	16,982.91	Reconciled
362112		08-OCT-15	ONESOURCE		530.66	13-OCT-15	530.66	Reconciled
362113		08-OCT-15	DISTRIBUTORS LLC ORANGE COUNTY AUTO PARTS CO		675.99	13-OCT-15	675.99	Reconciled
362114		08-OCT-15	OVIVO USA, LLC		26,816.00	19-OCT-15	26,816.00	Reconciled
362115		08-OCT-15	PACIFIC COAST BOLT CORP		6,446.76	14-OCT-15	6,446.76	Reconciled
362116		08-OCT-15	PAPER DEPOT DOCUMENT DESTRUCTION LLC		913.00	23-OCT-15	913.00	Reconciled
362117		08-OCT-15	PARKHOUSE TIRE INC		3,907.12	14-OCT-15	3,907.12	Reconciled
362118		08-OCT-15	PERS LONG TERM CARE		851.14	15-OCT-15	851.14	Reconciled
362119		08-OCT-15	PLUMBERS DEPOT INC.		4,067.28	16-OCT-15	4,067.28	Reconciled
362120		08-OCT-15	PRUDENTIAL OVERALL SUPPLY		6,237.88	13-OCT-15	6,237.88	Reconciled

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

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362121		08-OCT-15	PTI SAND & GRAVEL INC		919.72	14-OCT-15	919.72	Reconciled
362122		08-OCT-15	RAM AIR ENGINEERING INC		2,266.17	15-OCT-15	2,266.17	Reconciled
362123		08-OCT-15	RANCHO MARIPOSA APTS		11.59			Negotiable
362124		08-OCT-15	RANCHO TIERRA APTS		80.00			Negotiable
362125		08-OCT-15	RANE, AJAY		578.25			Negotiable
362126		08-OCT-15	RED HAWK FIRE & SECURITY (CA) LLC		1,175.00	13-OCT-15	1,175.00	Reconciled
362127		08-OCT-15	REED, JAMES D		1,900.00	19-OCT-15	1,900.00	Reconciled
362128		08-OCT-15	RINCON TRUCK CENTER INC.		360.43	13-OCT-15	360.43	Reconciled
362129		08-OCT-15	ROBERT HALF INTERNATIONAL, INC.		4,441.50	13-OCT-15	4,441.50	Reconciled
362130		08-OCT-15	SAFETY-KLEEN SYSTEMS, INC		727.47	14-OCT-15	727.47	Reconciled
362131		08-OCT-15	SANTA MARGARITA FORD		1,869.39	13-OCT-15	1,869.39	Reconciled
362132		08-OCT-15	SCHULER ENGINEERING CORPORATION		428,465.58	19-OCT-15	428,465.58	Reconciled
362133		08-OCT-15	SEAL ANALYTICAL INC		810.66	13-OCT-15	810.66	Reconciled
362134		08-OCT-15	SHAMROCK SUPPLY CO INC		2,044.46	13-OCT-15	2,044.46	Reconciled
362135		08-OCT-15	SHEA/BAKER RANCH ASSOCIATES, LLC		660,401.93	27-OCT-15	660,401.93	Reconciled
362136		08-OCT-15	SIMI VALLEY LANDFILL AND RECYCLING CENTER		484.05	13-OCT-15	484.05	Reconciled
362137		08-OCT-15	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		467.98	15-OCT-15	467.98	Reconciled
362138		08-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		259,689.04	13-OCT-15	259,689.04	Reconciled
362139		08-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		633.00	13-OCT-15	633.00	Reconciled
362140		08-OCT-15	STANDARD AUTOMATION AND CONTROL LP		59,300.75	19-OCT-15	59,300.75	Reconciled
362141		08-OCT-15	TABAR, KLAUS		171.75	13-OCT-15	171.75	Reconciled
IRWD Ledger      Payment Register For 01-OCT-15 To 31-OCT-15      Report Date: 13-NOV-2015 10:56 BANK: Bank of America N.A.      Branch : Los Angeles      Account: Checking AP and PR      Page: 12 Bank Account Currency: USD ( US Dollar )      Payment Currency: USD ( US Dollar ) Payment Type: All      Display Supplier Address: No								

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362142		08-OCT-15	THE FURMAN GROUP, INC.		11,600.00	19-OCT-15	11,600.00	Reconciled
362143		08-OCT-15	THOMPSON INDUSTRIAL SUPPLY		891.20	13-OCT-15	891.20	Reconciled
362144		08-OCT-15	THYSSENKRUPP ELEVATOR CORPORATION		347.30	13-OCT-15	347.30	Reconciled
362145		08-OCT-15	TIC-OFFICE PROPERTIES		1,851.56	06-NOV-15	1,851.56	Reconciled
362146		08-OCT-15	TIC-RETAIL PROPERTIES		207.97	06-NOV-15	207.97	Reconciled
362147		08-OCT-15	TRIPAC MARKETING INC		876.94	14-OCT-15	876.94	Reconciled
362148		08-OCT-15	TROPICAL PLAZA NURSERY INC		3,600.00	13-OCT-15	3,600.00	Reconciled
362149		08-OCT-15	TRUCPARCO		4,237.40	19-OCT-15	4,237.40	Reconciled
362150		08-OCT-15	TSI INCORPORATED		238.41	13-OCT-15	238.41	Reconciled
362151		08-OCT-15	TUSTIN TOYOTA		186.48	13-OCT-15	186.48	Reconciled
362152		08-OCT-15	TUSTIN UNIFIED SCHOOL DISTRICT		180,000.00	26-OCT-15	180,000.00	Reconciled
362153		08-OCT-15	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		85.00	13-OCT-15	85.00	Reconciled
362154		08-OCT-15	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		909.00	13-OCT-15	909.00	Reconciled
362155		08-OCT-15	UNITED PARCEL SERVICE INC		44.97	13-OCT-15	44.97	Reconciled
362156		08-OCT-15	UNITED STATES POST		27,083.33	20-OCT-15	27,083.33	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
362157	08-OCT-15	08-OCT-15	OFFICE UNIVAR USA INC		3,642.41	13-OCT-15	3,642.41	Reconciled
362158	08-OCT-15	08-OCT-15	URS CORPORATION		232,246.27	16-OCT-15	232,246.27	Reconciled
362159	08-OCT-15	08-OCT-15	USA BLUEBOOK		1,507.10	16-OCT-15	1,507.10	Reconciled
362160	08-OCT-15	08-OCT-15	VERIZON CALIFORNIA INC		270.48	14-OCT-15	270.48	Reconciled
362161	08-OCT-15	08-OCT-15	VERIZON CALIFORNIA INC		38.01	14-OCT-15	38.01	Reconciled
362162	08-OCT-15	08-OCT-15	VERIZON WIRELESS SERVICES LLC		2,920.82	14-OCT-15	2,920.82	Reconciled
362163	08-OCT-15	08-OCT-15	VI, JAMES		132.56	13-OCT-15	132.56	Reconciled
362164	08-OCT-15	08-OCT-15	WALTERS WHOLESALE ELECTRIC		5,192.73	14-OCT-15	5,192.73	Reconciled
362165	08-OCT-15	08-OCT-15	WASTE MANAGEMENT OF ORANGE COUNTY		1,832.80	13-OCT-15	1,832.80	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 13  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362166	08-OCT-15	08-OCT-15	WATERLINE TECHNOLOGIES INC		11,580.00	15-OCT-15	11,580.00	Reconciled
362167	08-OCT-15	08-OCT-15	WAXIE'S ENTERPRISES, INC		1,113.50	15-OCT-15	1,113.50	Reconciled
362168	08-OCT-15	08-OCT-15	WECK LABORATORIES INC		415.00	14-OCT-15	415.00	Reconciled
362169	08-OCT-15	08-OCT-15	WESTAMERICA COMMUNICATIONS, INC.		1,701.00	13-OCT-15	1,701.00	Reconciled
362170	08-OCT-15	08-OCT-15	WESTERN EXTERMINATOR COMPANY		7,260.50	20-OCT-15	7,260.50	Reconciled
362171	08-OCT-15	08-OCT-15	WIRELESS WATCHDOGS, LLC		444.00	15-OCT-15	444.00	Reconciled
362172	08-OCT-15	08-OCT-15	WONG, ANITA		7.21	29-OCT-15	7.21	Reconciled
362173	08-OCT-15	08-OCT-15	YEH, HSING CHUN		64.55	13-OCT-15	64.55	Reconciled
362174	12-OCT-15	12-OCT-15	JCI JONES CHEMICALS INC	CINCINNATI	4,404.40	16-OCT-15	4,404.40	Reconciled
362175	13-OCT-15	13-OCT-15	JCI JONES CHEMICALS INC	CINCINNATI	3,196.17	19-OCT-15	3,196.17	Reconciled
362176	15-OCT-15	15-OCT-15	Blaska, Erika M (Erika)		26.97	20-OCT-15	26.97	Reconciled
362177	15-OCT-15	15-OCT-15	La, Jason (Jason)		249.00	19-OCT-15	249.00	Reconciled
362178	15-OCT-15	15-OCT-15	Garcia, Jose		25.74	23-OCT-15	25.74	Reconciled
362179	15-OCT-15	15-OCT-15	Stuvick, Lindsey R		214.44	16-OCT-15	214.44	Reconciled
362180	15-OCT-15	15-OCT-15	Cortez, Malcolm A (Malcolm)		89.70			Negotiable
362181	15-OCT-15	15-OCT-15	Veeh, Matthew R		57.61	16-OCT-15	57.61	Reconciled
362182	15-OCT-15	15-OCT-15	Pizanie, Nicholas B		190.00	19-OCT-15	190.00	Reconciled
362183	15-OCT-15	15-OCT-15	Bennett, Ray R (Ray)		558.90	19-OCT-15	558.90	Reconciled
362184	15-OCT-15	15-OCT-15	Riddle, Rosemary T (Rosemary)		39.52	19-OCT-15	39.52	Reconciled
362185	15-OCT-15	15-OCT-15	Lee, Sun		205.05	04-NOV-15	205.05	Reconciled
362186	15-OCT-15	15-OCT-15	Norman, Tammy		102.92	19-OCT-15	102.92	Reconciled
362187	15-OCT-15	15-OCT-15	Roberts, Thomas (Tom)		260.00	19-OCT-15	260.00	Reconciled
362188	15-OCT-15	15-OCT-15	Colvin, Todd C (Todd)		130.00	26-OCT-15	130.00	Reconciled
362189	15-OCT-15	15-OCT-15	A STITCH ON TIME.COM		3,949.52	23-OCT-15	3,949.52	Reconciled
362190	15-OCT-15	15-OCT-15	ADS LLC		1,936.50	20-OCT-15	1,936.50	Reconciled
362191	15-OCT-15	15-OCT-15	AIRGAS, INC.		2,079.79	19-OCT-15	2,079.79	Reconciled
362192	15-OCT-15	15-OCT-15	ALPHA TRAFFIC SERVICES, INC.		570.00	20-OCT-15	570.00	Reconciled

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362193	15-OCT-15	15-OCT-15	ALSUFYANI, ALAA		10.73			Negotiable
362194	15-OCT-15	15-OCT-15	ANDERSONPENNA PARTNERS, INC		45,215.00	23-OCT-15	45,215.00	Reconciled
362195	15-OCT-15	15-OCT-15	APPLIED TECHNOLOGY GROUP INC		4,500.00	19-OCT-15	4,500.00	Reconciled
362196	15-OCT-15	15-OCT-15	AQUA-METRIC SALES COMPANY		14,262.48	27-OCT-15	14,262.48	Reconciled
362197	15-OCT-15	15-OCT-15	ARB, INC		23,937.00	21-OCT-15	23,937.00	Reconciled
362198	15-OCT-15	15-OCT-15	ARCADIS U.S., INC.		83,811.65	22-OCT-15	83,811.65	Reconciled
362199	15-OCT-15	15-OCT-15	AT&T		1,678.41	20-OCT-15	1,678.41	Reconciled
362200	15-OCT-15	15-OCT-15	ATHANAS, JAMES		8.36			Negotiable
362201	15-OCT-15	15-OCT-15	AVELLA APARTMENTS		1,391.99	05-NOV-15	1,391.99	Reconciled

362202	15-OCT-15	BICKER, THOMAS	17.30				Negotiable
362203	15-OCT-15	BIOMAGIC INC	9,538.56	28-OCT-15	9,538.56		Reconciled
362204	15-OCT-15	BLAIRS TOWING INC	115.00	27-OCT-15	115.00		Reconciled
362205	15-OCT-15	BOYD & ASSOCIATES	175.00	19-OCT-15	175.00		Reconciled
362206	15-OCT-15	BRITHINEE ELECTRIC	22,474.61	19-OCT-15	22,474.61		Reconciled
362207	15-OCT-15	C WELLS PIPELINE MATERIALS INC	4,648.17	23-OCT-15	4,648.17		Reconciled
362208	15-OCT-15	CALIFORNIA BARRICADE INC	7,526.25	19-OCT-15	7,526.25		Reconciled
362209	15-OCT-15	CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION	9,717.00	23-OCT-15	9,717.00		Reconciled
362210	15-OCT-15	CANON FINANCIAL SERVICES, INC	1,315.46	20-OCT-15	1,315.46		Reconciled
362211	15-OCT-15	CANON SOLUTIONS AMERICA, INC.	1,416.32	19-OCT-15	1,416.32		Reconciled
362212	15-OCT-15	CARL WARREN & CO	7,891.68	19-OCT-15	7,891.68		Reconciled
362213	15-OCT-15	CHAMPION PAVING INC	664.67	20-OCT-15	664.67		Reconciled
362214	15-OCT-15	CHEM TECH INTERNATIONAL INC	11,827.20	28-OCT-15	11,827.20		Reconciled
362215	15-OCT-15	CHEN, WEI-CHIN	85.98				Negotiable
362216	15-OCT-15	CITY CIRCUIT BREAKERS	1,539.00	23-OCT-15	1,539.00		Reconciled
362217	15-OCT-15	CITY OF IRVINE	85.55	21-OCT-15	85.55		Reconciled
362218	15-OCT-15	CITY OF LAKE FOREST	200.34	03-NOV-15	200.34		Reconciled
362219	15-OCT-15	CITY OF NEWPORT BEACH	1,344.00	22-OCT-15	1,344.00		Reconciled
362220	15-OCT-15	CITY OF SANTA ANA	18,596.63	23-OCT-15	18,596.63		Reconciled
362221	15-OCT-15	CITY OF TUSTIN	1,663.69	19-OCT-15	1,663.69		Reconciled
362222	15-OCT-15	CIVILSOURCE, INC.	7,425.00	20-OCT-15	7,425.00		Reconciled
362223	15-OCT-15	CLEAN ENERGY	1,418.30	21-OCT-15	1,418.30		Reconciled

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362224		15-OCT-15	CLEARINGHOUSE		477.67	19-OCT-15	477.67	Reconciled
362225		15-OCT-15	COATING SPECIALISTS AND INSPECTION SERVICES, INC.		4,030.00	20-OCT-15	4,030.00	Reconciled
362226		15-OCT-15	COMMERCIAL COATING RESOURCE INC		7,506.00	30-OCT-15	7,506.00	Reconciled
362227		15-OCT-15	COMPUCOM SYSTEMS, INC.		13,669.70	22-OCT-15	13,669.70	Reconciled
362228		15-OCT-15	COUNTY OF ORANGE		9,376.76	19-OCT-15	9,376.76	Reconciled
362229		15-OCT-15	CR & R INCORPORATED		12.95	20-OCT-15	12.95	Reconciled
362230		15-OCT-15	CREATIVE ALLIANCE GROUP LLC		500.00	20-OCT-15	500.00	Reconciled
362231		15-OCT-15	D & H WATER SYSTEMS INC.		292.18	23-OCT-15	292.18	Reconciled
362232		15-OCT-15	DAVIS, JON		68.59	19-OCT-15	68.59	Reconciled
362233		15-OCT-15	DETECTION INSTRUMENTS CORP		1,068.48	22-OCT-15	1,068.48	Reconciled
362234		15-OCT-15	DILYTICS INC		92,433.73	21-OCT-15	92,433.73	Reconciled
362235		15-OCT-15	EAST ORANGE COUNTY WATER DISTRICT		4,886.68	21-OCT-15	4,886.68	Reconciled
362236		15-OCT-15	EMBREE, PAULINE		28.53	27-OCT-15	28.53	Reconciled
362237		15-OCT-15	ENDRESS AND HAUSER INC		5,650.00	20-OCT-15	5,650.00	Reconciled
362238		15-OCT-15	ENVIRONMENTAL RESOURCE ASSOCIATES		256.49	21-OCT-15	256.49	Reconciled
362239		15-OCT-15	EXECUTIVE LIGHTING & ELECTRIC		1,883.42	20-OCT-15	1,883.42	Reconciled
362240		15-OCT-15	FARWEST CORROSION CONTROL COMPANY		3,585.00	19-OCT-15	3,585.00	Reconciled
362241		15-OCT-15	FEDEX		441.14	21-OCT-15	441.14	Reconciled
362242		15-OCT-15	FIRST CHOICE SERVICES		768.86	22-OCT-15	768.86	Reconciled
362243		15-OCT-15	FISHER SCIENTIFIC COMPANY LLC		978.16	19-OCT-15	978.16	Reconciled
362244		15-OCT-15	FISHER, MISTY		11.12	30-OCT-15	11.12	Reconciled
362245		15-OCT-15	FLEET SOLUTIONS LLC		4,416.05	21-OCT-15	4,416.05	Reconciled
362246		15-OCT-15	FOOTHILLS SENTRY INC		1,000.00	21-OCT-15	1,000.00	Reconciled
362247		15-OCT-15	GRAINGER		491.64	19-OCT-15	491.64	Reconciled
362248		15-OCT-15	GRIMES, GINGER		24.88	22-OCT-15	24.88	Reconciled
362249		15-OCT-15	GROSEKEMPER, AARON		49.13	19-OCT-15	49.13	Reconciled
362250		15-OCT-15	GUO, LIANG YIN		15.68			Negotiable

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 16  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362251		15-OCT-15	HACH COMPANY		298.42	19-OCT-15	298.42	Reconciled
362252		15-OCT-15	HALKETT, MICHELLE		90.90	27-OCT-15	90.90	Reconciled
362253		15-OCT-15	HARMAN, HELEN		12.21			Negotiable
362254		15-OCT-15	HARRINGTON INDUSTRIAL PLASTICS LLC		5,539.82	19-OCT-15	5,539.82	Reconciled
362255		15-OCT-15	HARTFORD LIFE INSURANCE COMPANY		25,466.01	23-OCT-15	25,466.01	Reconciled
362256		15-OCT-15	HAWKINS, MARY ANN		494.46	22-OCT-15	494.46	Reconciled
362257		15-OCT-15	HDR ENGINEERING INC		236,366.25	22-OCT-15	236,366.25	Reconciled
362258		15-OCT-15	HELPMATES STAFFING SERVICES		29,917.77	21-OCT-15	29,917.77	Reconciled
362259		15-OCT-15	HERITAGE FIELDS EL TORO, LLC		901.61	26-OCT-15	901.61	Reconciled
362260		15-OCT-15	HILL BROTHERS CHEMICAL COMPANY		5,010.30	19-OCT-15	5,010.30	Reconciled
362261		15-OCT-15	HOME DEPOT USA INC		249.12	20-OCT-15	249.12	Reconciled
362262		15-OCT-15	INDUSTRIAL METAL SUPPLY CO		635.80	19-OCT-15	635.80	Reconciled
362263		15-OCT-15	INNERLINE ENGINEERING		2,981.25	21-OCT-15	2,981.25	Reconciled
362264		15-OCT-15	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,881.24	23-OCT-15	1,881.24	Reconciled
362265		15-OCT-15	IRVINE PIPE & SUPPLY INC		4,765.12	19-OCT-15	4,765.12	Reconciled
362266		15-OCT-15	IRWD EMPLOYEE ASSOCIATION		880.00	16-OCT-15	880.00	Reconciled
362267		15-OCT-15	IRWD-PETTY CASH CUSTODIAN		944.71	16-OCT-15	944.71	Reconciled
362268		15-OCT-15	JIMNI SYSTEMS, INC.		2,250.00	20-OCT-15	2,250.00	Reconciled
362269		15-OCT-15	JOE RHODES MAINT SERVICE INC		1,788.53	21-OCT-15	1,788.53	Reconciled
362270		15-OCT-15	JOHNSON PLASTICS		1,144.68	19-OCT-15	1,144.68	Reconciled
362271		15-OCT-15	KEC ENGINEERING		527.68	22-OCT-15	527.68	Reconciled
362272		15-OCT-15	KELLEY BLUE BOOK, INC.		75.60	19-OCT-15	75.60	Reconciled
362273		15-OCT-15	KOJOURI, MOHAMMAD		16.07	27-OCT-15	16.07	Reconciled
362274		15-OCT-15	KROHNE, INC		862.44	19-OCT-15	862.44	Reconciled
362275		15-OCT-15	LA STRADA CONTRACTING CO		43.39	21-OCT-15	43.39	Reconciled
362276		15-OCT-15	LIN, MIN		167.13	23-OCT-15	167.13	Reconciled
362277		15-OCT-15	LIU, ZHENGNING		93.67			Negotiable
362278		15-OCT-15	MARZOUK, BEN		23.80	09-NOV-15	23.80	Reconciled
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BANK: Bank of America N.A.			Branch : Los Angeles		Account: Checking AP and PR		Page: 17	
Bank Account Currency: USD ( US Dollar )					Payment Currency: USD ( US Dollar )			
Payment Type: All					Display Supplier Address: No			

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362279		15-OCT-15	MBF CONSULTING, INC.		14,925.00	23-OCT-15	14,925.00	Reconciled
362280		15-OCT-15	MC FADDEN-DALE INDUSTRIAL		688.93	19-OCT-15	688.93	Reconciled
362281		15-OCT-15	MC MASTER CARR SUPPLY CO		2,377.06	19-OCT-15	2,377.06	Reconciled
362282		15-OCT-15	MCR TECHNOLOGIES INC		2,560.32	19-OCT-15	2,560.32	Reconciled
362283		15-OCT-15	MERRILL, AARON		36.88	09-NOV-15	36.88	Reconciled
362284		15-OCT-15	MONTILLA COMMUNITY ASSN		4,501.95			Negotiable
362285		15-OCT-15	MORRISROE, EDWARD		205.25	22-OCT-15	205.25	Reconciled
362286		15-OCT-15	MR CRANE INC		2,226.00	19-OCT-15	2,226.00	Reconciled
362287		15-OCT-15	MUNICIPAL MAINTENANCE EQUIPMENT INC		557.63	20-OCT-15	557.63	Reconciled
362288		15-OCT-15	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		45,081.83	21-OCT-15	45,081.83	Reconciled
362289		15-OCT-15	NAKAE & ASSOCIATES		2,855.00	19-OCT-15	2,855.00	Reconciled
362290		15-OCT-15	NALCO CAL WATER, LLC		240.00	19-OCT-15	240.00	Reconciled
362291		15-OCT-15	NATURALWELL, LLC		2,117.50	19-OCT-15	2,117.50	Reconciled
362292		15-OCT-15	NAVIGANT CONSULTING, INC		7,162.00	20-OCT-15	7,162.00	Reconciled
362293		15-OCT-15	NCH CORPORATION		659.02	19-OCT-15	659.02	Reconciled
362294		15-OCT-15	NGO, TOAN		14.90	19-OCT-15	14.90	Reconciled
362295		15-OCT-15	O.I. ANALYTICAL		32,605.00	22-OCT-15	32,605.00	Reconciled
362296		15-OCT-15	OLIN CORPORATION		25,537.44	22-OCT-15	25,537.44	Reconciled
362297		15-OCT-15	ON ASSIGNMENT LAB SUPPORT		3,145.43	20-OCT-15	3,145.43	Reconciled

362298	15-OCT-15	ONESOURCE DISTRIBUTORS LLC		8,191.00	19-OCT-15	8,191.00	Reconciled
362299	15-OCT-15	ORALIA NOAKES AND KEVIN NOAKES		136.30	12-NOV-15	136.30	Reconciled
362300	15-OCT-15	ORDONEZ, CYNTHIA MARIE		562.57	16-OCT-15	562.57	Reconciled
362301	15-OCT-15	OUTFRONT MEDIA LLC		23,600.38	26-OCT-15	23,600.38	Reconciled
362302	15-OCT-15	OVIVO USA, LLC		3,952.00	19-OCT-15	3,952.00	Reconciled
362303	15-OCT-15	OZONIA NORTH AMERICA, LLC		670.14	19-OCT-15	670.14	Reconciled
362304	15-OCT-15	PACIFIC GAS AND ELECTRIC COMPANY		22.67	20-OCT-15	22.67	Reconciled
362305	15-OCT-15	PENTAIR AQUATIC ECO-SYSTEMS, INC		928.59	19-OCT-15	928.59	Reconciled
362306	15-OCT-15	FERRY, ROBERT		1,087.63	03-NOV-15	1,087.63	Reconciled

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362307		15-OCT-15	PERS LONG TERM CARE		851.14	22-OCT-15	851.14	Reconciled
362308		15-OCT-15	PINE ENVIRONMENTAL SERVICES LLC		939.61	20-OCT-15	939.61	Reconciled
362309		15-OCT-15	PITCHFORD, KRISTOPHER		166.23			Negotiable
362310		15-OCT-15	PRAXAIR DISTRIBUTION INC		1,586.87	20-OCT-15	1,586.87	Reconciled
362311		15-OCT-15	PRIDEMARK CONTRACTORS INC		529.16	12-NOV-15	529.16	Reconciled
362312		15-OCT-15	PROGRESSIVE WATER TREATMENT INC		8,563.01	26-OCT-15	8,563.01	Reconciled
362313		15-OCT-15	PTI SAND & GRAVEL INC		547.54	21-OCT-15	547.54	Reconciled
362314		15-OCT-15	PURE EFFECT INC		11,910.00	23-OCT-15	11,910.00	Reconciled
362315		15-OCT-15	R&B AUTOMATION, INC.		2,284.00	19-OCT-15	2,284.00	Reconciled
362316		15-OCT-15	RAINBOW DISPOSAL CO INC		325.21	22-OCT-15	325.21	Reconciled
362317		15-OCT-15	RAMPONE, JENNIFER		699.15	02-NOV-15	699.15	Reconciled
362318		15-OCT-15	REACH EMPLOYEE ASSISTANCE INC		907.20	29-OCT-15	907.20	Reconciled
362319		15-OCT-15	RINGCLEAR LLC		95.04	20-OCT-15	95.04	Reconciled
362320		15-OCT-15	RITWAY AUTO PAINT & BODYWORKS		398.24	19-OCT-15	398.24	Reconciled
362321		15-OCT-15	RS HUGHES COMPANY, INC.		245.24	19-OCT-15	245.24	Reconciled
362322		15-OCT-15	S&S SEEDS INC		3,627.87	19-OCT-15	3,627.87	Reconciled
362323		15-OCT-15	SANTA ANA BLUE PRINT		628.64	23-OCT-15	628.64	Reconciled
362324		15-OCT-15	SANTA MARGARITA FORD		1,809.34	19-OCT-15	1,809.34	Reconciled
362325		15-OCT-15	SARPAS, RAFIULLAH		82.27	19-OCT-15	82.27	Reconciled
362326		15-OCT-15	SECURTEC DISTRICT PATROL, INC.		11,467.00	26-OCT-15	11,467.00	Reconciled
362327		15-OCT-15	SIEMENS DEMAG DELAVAL TURBOMACHINERY, INC.		915.84	27-OCT-15	915.84	Reconciled
362328		15-OCT-15	SIGMA-ALDRICH INC		142.53	20-OCT-15	142.53	Reconciled
362329		15-OCT-15	SOUTH COAST ANSWERING SERVICE		677.13	20-OCT-15	677.13	Reconciled
362330		15-OCT-15	SOUTH COAST WATER CO.		191.68	20-OCT-15	191.68	Reconciled
362331		15-OCT-15	SOUTH COAST WATER DISTRICT		2,519.00	19-OCT-15	2,519.00	Reconciled

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362332		15-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		144,512.57	19-OCT-15	144,512.57	Reconciled
362333		15-OCT-15	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		480.17	27-OCT-15	480.17	Reconciled
362334		15-OCT-15	SOUTHLAND WATER TECHNOLOGIES LLC		4,982.92	21-OCT-15	4,982.92	Reconciled
362335		15-OCT-15	STANTEC CONSULTING SERVICES INC.		3,192.00	19-OCT-15	3,192.00	Reconciled
362336		15-OCT-15	STEELE WORLDWIDE		34.51	20-OCT-15	34.51	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
362337	15-OCT-15	INC						
362338	15-OCT-15	STERIS CORPORATION			4,675.87	21-OCT-15	4,675.87	Reconciled
362339	15-OCT-15	SUN, ZHENGUO			17.54			Negotiable
362340	15-OCT-15	TEL SEC CONSULT, LLC			9,000.00	20-OCT-15	9,000.00	Reconciled
362341	15-OCT-15	TESTAMERICA LABORATORIES, INC			297.15	21-OCT-15	297.15	Reconciled
362342	15-OCT-15	TETRA TECH, INC			7,942.50	19-OCT-15	7,942.50	Reconciled
362343	15-OCT-15	THE GAS COMPANY			688.28	19-OCT-15	688.28	Reconciled
362344	15-OCT-15	THOMAS HARDER & CO			5,650.00	21-OCT-15	5,650.00	Reconciled
362345	15-OCT-15	TRAN, HAU			108.32	21-OCT-15	108.32	Reconciled
362346	15-OCT-15	TROPICAL PLAZA NURSERY INC			4,186.48	19-OCT-15	4,186.48	Reconciled
362347	15-OCT-15	TRUCPARCO			93.36	26-OCT-15	93.36	Reconciled
362348	15-OCT-15	TTS ENGINEERING INC			408.30	19-OCT-15	408.30	Reconciled
362349	15-OCT-15	U.S. HEALTHWORKS MEDICAL GROUP, P.C.			130.00	19-OCT-15	130.00	Reconciled
362350	15-OCT-15	ULTRA SCIENTIFIC			136.00	20-OCT-15	136.00	Reconciled
362351	15-OCT-15	UNITED PARCEL SERVICE INC			39.94	19-OCT-15	39.94	Reconciled
362352	15-OCT-15	UNITED SITE SERVICES OF CALIFORNIA INC			630.56	21-OCT-15	630.56	Reconciled
362353	15-OCT-15	URS CORPORATION			62,957.00	22-OCT-15	62,957.00	Reconciled
362354	15-OCT-15	USA BLUEBOOK			1,218.58	23-OCT-15	1,218.58	Reconciled
362355	15-OCT-15	VAKILLI, MEDI			15.53	19-OCT-15	15.53	Reconciled
362356	15-OCT-15	VALLEY CREST COMPANIES			726.78	21-OCT-15	726.78	Reconciled
362357	15-OCT-15	VALLEY CREST DEVELOPMENT			45.29	21-OCT-15	45.29	Reconciled
362357	15-OCT-15	VELASCO, CHRISTIE			107.50	19-OCT-15	107.50	Reconciled

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 Payment Type: All      Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362358	15-OCT-15	VERIZON CALIFORNIA INC			50.77	21-OCT-15	50.77	Reconciled
362359	15-OCT-15	VULCAN MATERIALS COMPANY			1,360.00	19-OCT-15	1,360.00	Reconciled
362360	15-OCT-15	WACO FILTERS CORPORATION			8,679.53	20-OCT-15	8,679.53	Reconciled
362361	15-OCT-15	WALTERS WHOLESALE ELECTRIC			425.32	27-OCT-15	425.32	Reconciled
362362	15-OCT-15	WASTE MANAGEMENT OF ORANGE COUNTY			2,758.66	19-OCT-15	2,758.66	Reconciled
362363	15-OCT-15	WATERSMART SOFTWARE, INC			17,974.42	23-OCT-15	17,974.42	Reconciled
362364	15-OCT-15	WAXIE'S ENTERPRISES, INC			292.66	21-OCT-15	292.66	Reconciled
362365	15-OCT-15	WECK LABORATORIES INC			108.00	20-OCT-15	108.00	Reconciled
362366	15-OCT-15	WESTERN EXTERMINATOR COMPANY			2,260.00	20-OCT-15	2,260.00	Reconciled
362367	15-OCT-15	YANG, JUDY			26.66			Negotiable
362368	15-OCT-15	YANG, LI			19.16			Negotiable
362369	15-OCT-15	YANG, MICHAEL			29.39	19-OCT-15	29.39	Reconciled
362370	15-OCT-15	YP LLC			123.50	19-OCT-15	123.50	Reconciled
362371	15-OCT-15	YU, WEI			21.41	19-OCT-15	21.41	Reconciled
362372	15-OCT-15	ZHANG, CONNIE			18.72	19-OCT-15	18.72	Reconciled
362373	22-OCT-15	PAISANO, JEFF	PAY		1,558.09	27-OCT-15	1,558.09	Reconciled
362374	22-OCT-15	Compton, Christine A			34.64	02-NOV-15	34.64	Reconciled
362375	22-OCT-15	Sanchez, Fiona M (Fiona)			8.70			Negotiable
362376	22-OCT-15	Cho, Harry K (Harry)			70.15	27-OCT-15	70.15	Reconciled
362377	22-OCT-15	Bonkowski, Leslie A (Leslie)			141.02	02-NOV-15	141.02	Reconciled
362378	22-OCT-15	Hoffman, Michael S (Mike)			91.00	27-OCT-15	91.00	Reconciled
362379	22-OCT-15	Vazquez, Rafael			181.34	26-OCT-15	181.34	Reconciled
362380	22-OCT-15	Lee, Randy C			115.00	06-NOV-15	115.00	Reconciled
362381	22-OCT-15	Lao, Richard S			33.35	06-NOV-15	33.35	Reconciled
362382	22-OCT-15	Bonkowski, Thomas J (Thomas)			55.89	02-NOV-15	55.89	Reconciled
362383	22-OCT-15	3M COMPANY			423.20	28-OCT-15	423.20	Reconciled
362384	22-OCT-15	4IMPRINT, INC.			441.93	26-OCT-15	441.93	Reconciled
362385	22-OCT-15	AKM CONSULTING ENGINEERS, INC.			32,480.00	30-OCT-15	32,480.00	Reconciled

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 BANK: Bank of America N.A.      Branch : Los Angeles      Account: Checking AP and PR      Page: 21  
 Bank Account Currency: USD ( US Dollar )      Payment Currency: USD ( US Dollar )  
 Payment Type: All      Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362386		22-OCT-15	ALPHA TRAFFIC SERVICES, INC.		570.00	27-OCT-15	570.00	Reconciled
362387		22-OCT-15	AMAND, PAUL		97.01	26-OCT-15	97.01	Reconciled
362388		22-OCT-15	ANACAPA APARTMENTS		1,270.90	05-NOV-15	1,270.90	Reconciled
362389		22-OCT-15	ANDERSONPENNA PARTNERS, INC		15,242.50	02-NOV-15	15,242.50	Reconciled
362390		22-OCT-15	APPLIED MEDICAL RESOURCES INC		81.61			Negotiable
362391		22-OCT-15	APPLIED TECHNOLOGY GROUP INC		5,620.52	26-OCT-15	5,620.52	Reconciled
362392		22-OCT-15	ARCADIS U.S., INC.		14,705.00	02-NOV-15	14,705.00	Reconciled
362393		22-OCT-15	ARMORCAST PRODUCTS COMPANY		6,000.05	26-OCT-15	6,000.05	Reconciled
362394		22-OCT-15	AT&T		3,647.51	27-OCT-15	3,647.51	Reconciled
362395		22-OCT-15	AT&T		48.66	02-NOV-15	48.66	Reconciled
362396		22-OCT-15	AT&T		278.50	30-OCT-15	278.50	Reconciled
362397		22-OCT-15	ATHENS SERVICES		7,964.04	29-OCT-15	7,964.04	Reconciled
362398		22-OCT-15	AUSTIN HARDWOODS, INC		247.23	28-OCT-15	247.23	Reconciled
362399		22-OCT-15	AUTOZONE PARTS, INC.		806.99	27-OCT-15	806.99	Reconciled
362400		22-OCT-15	AVALON BAY COMMUNITIES		2,321.41			Negotiable
362401		22-OCT-15	BAGSHAW, STEPHEN		32.30	26-OCT-15	32.30	Reconciled
362402		22-OCT-15	BATTERY SPECIALTIES		4,292.84	27-OCT-15	4,292.84	Reconciled
362403		22-OCT-15	BDC SPECIAL WASTE		207.20	26-OCT-15	207.20	Reconciled
362404		22-OCT-15	BIGWIG MONSTER, LLC		8,850.00	26-OCT-15	8,850.00	Reconciled
362405		22-OCT-15	BILL'S SWEEPING SERVICE INC		460.00	26-OCT-15	460.00	Reconciled
362406		22-OCT-15	BORCHARD SURVEYING & MAPPING, INC.		7,985.00	28-OCT-15	7,985.00	Reconciled
362407		22-OCT-15	BOWIE, ARNESON, WILES & GIANNONE		28,162.73	04-NOV-15	28,162.73	Reconciled
362408		22-OCT-15	BRADY, STACY		38.55			Negotiable
362409		22-OCT-15	C WELLS PIPELINE MATERIALS INC		362.88	27-OCT-15	362.88	Reconciled
362410		22-OCT-15	CALIFORNIA PACIFIC HOMES		1,123.59	04-NOV-15	1,123.59	Reconciled
362411		22-OCT-15	CAROLLO ENGINEERS, INC		1,840.00	27-OCT-15	1,840.00	Reconciled
362412		22-OCT-15	CH2M HILL, INC		1,005.96	28-OCT-15	1,005.96	Reconciled
362413		22-OCT-15	CHIH, CHIA-YU AND GOW-TAY		87.03	30-OCT-15	87.03	Reconciled
IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56								
BANK: Bank of America N.A.			Branch : Los Angeles		Account: Checking AP and PR		Page: 22	
Bank Account Currency: USD ( US Dollar )					Payment Currency: USD ( US Dollar )			
Payment Type: All					Display Supplier Address: No			

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362414		22-OCT-15	CITY OF NEWPORT BEACH		1,163.74	29-OCT-15	1,163.74	Reconciled
362415		22-OCT-15	CITY OF SANTA ANA		131.42	26-OCT-15	131.42	Reconciled
362416		22-OCT-15	CIVILSOURCE, INC.		14,014.00	30-OCT-15	14,014.00	Reconciled
362417		22-OCT-15	COASTLINE EQUIPMENT COMPANY		326.15	26-OCT-15	326.15	Reconciled
362418		22-OCT-15	COX COMMUNICATIONS, INC.		109.00	26-OCT-15	109.00	Reconciled
362419		22-OCT-15	CROCKER & CROCKER		16,266.70	03-NOV-15	16,266.70	Reconciled
362420		22-OCT-15	DANG, BICHNGOC T		33.13	29-OCT-15	33.13	Reconciled
362421		22-OCT-15	DATA CLEAN CORPORATION		526.50	27-OCT-15	526.50	Reconciled
362422		22-OCT-15	DEE JASPAR & ASSOCIATES, INC.		9,441.29	30-OCT-15	9,441.29	Reconciled
362423		22-OCT-15	DIRECTV INC		110.98	26-OCT-15	110.98	Reconciled
362424		22-OCT-15	DUDLEY RIDGE WATER DISTRICT		63,550.06	30-OCT-15	63,550.06	Reconciled
362425		22-OCT-15	EHS INTERNATIONAL, INC		3,960.00	26-OCT-15	3,960.00	Reconciled
362426		22-OCT-15	ENTERPRISE SECURITY, INC		734.55	26-OCT-15	734.55	Reconciled
362427		22-OCT-15	ENVIRONMENTAL RESOURCE ASSOCIATES		151.37	28-OCT-15	151.37	Reconciled
362428		22-OCT-15	EXECUTIVE PRESENTATIONS, INC.		31,277.24	30-OCT-15	31,277.24	Reconciled
362429		22-OCT-15	EXPLOROCEAN		5,000.00	05-NOV-15	5,000.00	Reconciled
362430		22-OCT-15	FARRELL & ASSOCIATES		197.34	30-OCT-15	197.34	Reconciled
362431		22-OCT-15	FARWEST CORROSION CONTROL COMPANY		666.40	26-OCT-15	666.40	Reconciled
362432		22-OCT-15	FISERV		16,194.30	30-OCT-15	16,194.30	Reconciled

362433	22-OCT-15	FISHER SCIENTIFIC COMPANY LLC	7,678.24	26-OCT-15	7,678.24	Reconciled
362434	22-OCT-15	FLANAGAN, PATRICK J	39.40	27-OCT-15	39.40	Reconciled
362435	22-OCT-15	FLEET SOLUTIONS LLC	322.15	26-OCT-15	322.15	Reconciled
362436	22-OCT-15	FOOTHILL BUSINESS ASSN	634.72	30-OCT-15	634.72	Reconciled
362437	22-OCT-15	GABA, RUDY	20.05	03-NOV-15	20.05	Reconciled
362438	22-OCT-15	GARDEN GROVE UNIFIED SCHOOL DISTRICT	5.00	06-NOV-15	5.00	Reconciled

IRWD Ledger  
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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362439		22-OCT-15	GE GRID SOLUTIONS, LLC		21,253.23	02-NOV-15	21,253.23	Reconciled
362440		22-OCT-15	GRAINGER		1,995.27	26-OCT-15	1,995.27	Reconciled
362441		22-OCT-15	GRAYBAR ELECTRIC COMPANY		1,720.77	26-OCT-15	1,720.77	Reconciled
362442		22-OCT-15	GRIFFIN DEWATERING CORPORATION		1,867.07	26-OCT-15	1,867.07	Reconciled
362443		22-OCT-15	H2O INNOVATION USA INC		3,959.28	27-OCT-15	3,959.28	Reconciled
362444		22-OCT-15	HACH COMPANY		594.39	26-OCT-15	594.39	Reconciled
362445		22-OCT-15	HELPMATES STAFFING SERVICES		18,404.49	30-OCT-15	18,404.49	Reconciled
362446		22-OCT-15	HERTZ EQUIPMENT RENTAL CORPORATION		319.05	28-OCT-15	319.05	Reconciled
362447		22-OCT-15	HOME DEPOT USA INC		522.60	27-OCT-15	522.60	Reconciled
362448		22-OCT-15	HOPKINS TECHNICAL PRODUCTS INC		1,020.73	27-OCT-15	1,020.73	Reconciled
362449		22-OCT-15	HUMANA INSURANCE COMPANY		231.40	30-OCT-15	231.40	Reconciled
362450		22-OCT-15	HUNSAKER & ASSOCIATES IRVINE		5,825.00	27-OCT-15	5,825.00	Reconciled
362451		22-OCT-15	IRVINE PIPE & SUPPLY INC		626.89	26-OCT-15	626.89	Reconciled
362452		22-OCT-15	IRWANDI, MARISSA		83.99	29-OCT-15	83.99	Reconciled
362453		22-OCT-15	JAMA, FARHAN		152.44	03-NOV-15	152.44	Reconciled
362454		22-OCT-15	KENNY THE PRINTER		644.41	26-OCT-15	644.41	Reconciled
362455		22-OCT-15	KERN COUNTY TREASURER TAX COLLECTOR		63,730.22			Negotiable
362456		22-OCT-15	KIM, JENNY		11.47			Negotiable
362457		22-OCT-15	KONECRANES INC		3,269.48	26-OCT-15	3,269.48	Reconciled
362458		22-OCT-15	KUPPUSAMY, ILANGOVAN		1,212.04	26-OCT-15	1,212.04	Reconciled
362459		22-OCT-15	L. G. SUPPLY COMPANY		5,132.16	29-OCT-15	5,132.16	Reconciled
362460		22-OCT-15	LANDCARE HOLDINGS, INC.		350.00	26-OCT-15	350.00	Reconciled
362461		22-OCT-15	LAZZERI, TONY		765.44	26-OCT-15	765.44	Reconciled
362462		22-OCT-15	LEE, JANET		337.06			Negotiable
362463		22-OCT-15	LOS ANGELES TIMES		105.00	26-OCT-15	105.00	Reconciled
362464		22-OCT-15	LOWE, KAREN		50.15	26-OCT-15	50.15	Reconciled
362465		22-OCT-15	LUBRICATION ENGINEERS, INC.		11,475.60	02-NOV-15	11,475.60	Reconciled
362466		22-OCT-15	MAEDA, MIE		447.22			Negotiable
362467		22-OCT-15	MAILFINANCE INC		794.62	28-OCT-15	794.62	Reconciled

IRWD Ledger  
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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar ) Page: 24  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362468		22-OCT-15	MARINA LANDSCAPE MAINTENANCE, INC.		6,152.82	27-OCT-15	6,152.82	Reconciled
362469		22-OCT-15	MARVIN GARDENS LLC		2,593.70	22-OCT-15	2,593.70	Reconciled
362470		22-OCT-15	MC MASTER CARR SUPPLY CO		1,658.21	27-OCT-15	1,658.21	Reconciled
362471		22-OCT-15	MICHAEL BAKER INTERNATIONAL, INC.		23,413.53	02-NOV-15	23,413.53	Reconciled
362472		22-OCT-15	MOBILE MODULAR MANAGEMENT CORPORATION		972.00	29-OCT-15	972.00	Reconciled
362473		22-OCT-15	MYRON CORP		1,011.75	02-NOV-15	1,011.75	Reconciled
362474		22-OCT-15	NATIONAL READY MIXED CONCRETE CO.		1,105.60	26-OCT-15	1,105.60	Reconciled
362475		22-OCT-15	NCH CORPORATION		1,164.79	26-OCT-15	1,164.79	Reconciled
362476		22-OCT-15	NEWAGE INDUSTRIES		214.78	26-OCT-15	214.78	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
362477		22-OCT-15	INC		1,466.00	26-OCT-15	1,466.00	Reconciled
362478		22-OCT-15	NINYO & MOORE		31,353.04			Negotiable
362479		22-OCT-15	INC		700.00	26-OCT-15	700.00	Reconciled
362480		22-OCT-15	NOVACOAST INC		17,101.74	02-NOV-15	17,101.74	Reconciled
362481		22-OCT-15	OLIN CORPORATION		1,833.34	28-OCT-15	1,833.34	Reconciled
362482		22-OCT-15	OLTMANS					Reconciled
362483		22-OCT-15	CONSTRUCTION CO		1,141.20	26-OCT-15	1,141.20	Reconciled
362484		22-OCT-15	ON ASSIGNMENT LAB					Reconciled
362485		22-OCT-15	SUPPORT		753.56	26-OCT-15	753.56	Reconciled
362486		22-OCT-15	ONESOURCE					Reconciled
362487		22-OCT-15	DISTRIBUTORS LLC		3,301.12	26-OCT-15	3,301.12	Reconciled
362488		22-OCT-15	OPEN TEXT INC		450.43	26-OCT-15	450.43	Reconciled
362489		22-OCT-15	ORANGE COUNTY AUTO					Reconciled
362490		22-OCT-15	FARTS CO					Reconciled
362491		22-OCT-15	ORANGE COUNTY FIRE		732.00	02-NOV-15	732.00	Reconciled
362492		22-OCT-15	AUTHORITY		732.00	02-NOV-15	732.00	Reconciled
362493		22-OCT-15	ORANGE COUNTY FIRE		450.00	28-OCT-15	450.00	Reconciled
362494		22-OCT-15	AUTHORITY		940.68	27-OCT-15	940.68	Reconciled
362495		22-OCT-15	ORANGE COUNTY					Reconciled
362496		22-OCT-15	PUMPING, INC.		4,045.80	26-OCT-15	4,045.80	Reconciled
362497		22-OCT-15	ORANGE COUNTY		130,863.91			Negotiable
362498		22-OCT-15	TREASURER					Reconciled
362499		22-OCT-15	OUTFRONT MEDIA LLC		10,437.50	02-NOV-15	10,437.50	Reconciled
362500		22-OCT-15	PACIFIC GAS AND		12,500.00	02-NOV-15	12,500.00	Reconciled
362501		22-OCT-15	ELECTRIC COMPANY					Reconciled
362502		22-OCT-15	PACRIM ENGINEERING					Reconciled
362503		22-OCT-15	INC.					Reconciled
362504		22-OCT-15	PALL ADVANCED					Reconciled
362505		22-OCT-15	SEPARATIONS					Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 25  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362494		22-OCT-15	PERKINELMER HEALTH		169.36	26-OCT-15	169.36	Reconciled
362495		22-OCT-15	SCIENCES INC		640.42	26-OCT-15	640.42	Reconciled
362496		22-OCT-15	PINNACLE TOWERS					Reconciled
362497		22-OCT-15	LLC		621.81	06-NOV-15	621.81	Reconciled
362498		22-OCT-15	PLH PREMIER LUXURY					Reconciled
362499		22-OCT-15	HOMES, LLC		1,662.55	26-OCT-15	1,662.55	Reconciled
362500		22-OCT-15	PRAXAIR					Reconciled
362501		22-OCT-15	DISTRIBUTION INC		6,448.00	27-OCT-15	6,448.00	Reconciled
362502		22-OCT-15	PURE EFFECT INC		5,897.00	26-OCT-15	5,897.00	Reconciled
362503		22-OCT-15	PYRO-COMM SYSTEMS					Reconciled
362504		22-OCT-15	INC		618.72	05-NOV-15	618.72	Reconciled
362505		22-OCT-15	QIN, AO		275.00	26-OCT-15	275.00	Reconciled
362506		22-OCT-15	QUALITY LAWN					Reconciled
362507		22-OCT-15	SERVICE		1,524.74	27-OCT-15	1,524.74	Reconciled
362508		22-OCT-15	QUICK		1,763.26	27-OCT-15	1,763.26	Reconciled
362509		22-OCT-15	MANUFACTURING INC					Reconciled
362510		22-OCT-15	QUINCY COMPRESSOR		113.18	26-OCT-15	113.18	Reconciled
362511		22-OCT-15	LLC		546.04	27-OCT-15	546.04	Reconciled
362512		22-OCT-15	RED WING SHOES					Reconciled
362513		22-OCT-15	REFRIGERATION		2,532.38	30-OCT-15	2,532.38	Reconciled
362514		22-OCT-15	SUPPLIES					Reconciled
362515		22-OCT-15	DISTRIBUTOR		9,375.00	26-OCT-15	9,375.00	Reconciled
362516		22-OCT-15	RESPONSE ENVELOPE,					Reconciled
362517		22-OCT-15	INC		1,944.00	26-OCT-15	1,944.00	Reconciled
362518		22-OCT-15	RMC WATER AND					Reconciled
362519		22-OCT-15	ENVIRONMENT		2,554.00	26-OCT-15	2,554.00	Reconciled
362520		22-OCT-15	ROBERT HALF					Reconciled
362521		22-OCT-15	INTERNATIONAL,		339,360.43	12-NOV-15	339,360.43	Reconciled
362522		22-OCT-15	INC.					Reconciled
362523		22-OCT-15	RON TURLEY					Reconciled
362524		22-OCT-15	ASSOCIATES INC					Reconciled
362525		22-OCT-15	ROSEDALE - RIO		10.23	06-NOV-15	10.23	Reconciled
362526		22-OCT-15	BRAVO WATER		227.22	27-OCT-15	227.22	Reconciled
362527		22-OCT-15	STORAGE DISTRICT					Reconciled
362528		22-OCT-15	ROWE, ISABELL		9,066.26	26-OCT-15	9,066.26	Reconciled
362529		22-OCT-15	RS HUGHES COMPANY,					Reconciled
362530		22-OCT-15	INC.		1,225.71	26-OCT-15	1,225.71	Reconciled
362531		22-OCT-15	RUST AUTOMATION &		1,109.60	27-OCT-15	1,109.60	Reconciled
362532		22-OCT-15	CONTROLS INC					Reconciled
362533		22-OCT-15	SAFECHECKS		627.53	26-OCT-15	627.53	Reconciled
362534		22-OCT-15	SANTA ANA BLUE					Reconciled
362535		22-OCT-15	PRINT					Reconciled
362536		22-OCT-15	SANTA MARGARITA		4,775.20	26-OCT-15	4,775.20	Reconciled
362537		22-OCT-15	FORD					Reconciled
362538		22-OCT-15	SANTIAGO AQUEDUCT					Reconciled
362539		22-OCT-15	COMMISSION					Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 26  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Cleared

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362518		22-OCT-15	SHAMROCK SUPPLY CO INC		353.03	26-OCT-15	353.03	Reconciled
362519		22-OCT-15	SHERWIN WILLIAMS COMPANY		193.75	28-OCT-15	193.75	Reconciled
362520		22-OCT-15	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		1,403.94	04-NOV-15	1,403.94	Reconciled
362521		22-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		353,149.49	30-OCT-15	353,149.49	Reconciled
362522		22-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		22,179.14	12-NOV-15	22,179.14	Reconciled
362523		22-OCT-15	SOUTHERN CALIFORNIA SECURITY CENTER, INC.		157.50	03-NOV-15	157.50	Reconciled
362524		22-OCT-15	SOUTHERN COUNTIES LUBRICANTS LLC		2,155.20	26-OCT-15	2,155.20	Reconciled
362525		22-OCT-15	STANTEC CONSULTING SERVICES INC.		11,371.50	02-NOV-15	11,371.50	Reconciled
362526		22-OCT-15	TEKDRAULICS		60,758.99	30-OCT-15	60,758.99	Reconciled
362527		22-OCT-15	TEREX SERVICES		68.87	26-OCT-15	68.87	Reconciled
362528		22-OCT-15	TESTAMERICA LABORATORIES, INC		51.50	29-OCT-15	51.50	Reconciled
362529		22-OCT-15	THE GAS COMPANY		296.68	29-OCT-15	296.68	Reconciled
362530		22-OCT-15	TONY VALENTINE CONSTRUCTION		554.23	29-OCT-15	554.23	Reconciled
362531		22-OCT-15	TROPICAL PLAZA NURSERY INC		26,271.00	30-OCT-15	26,271.00	Reconciled
362532		22-OCT-15	TRUCPARCO		4,331.16	30-OCT-15	4,331.16	Reconciled
362533		22-OCT-15	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		255.00	26-OCT-15	255.00	Reconciled
362534		22-OCT-15	ULINE INC		236.18	28-OCT-15	236.18	Reconciled
362535		22-OCT-15	UNITED PARCEL SERVICE INC		34.23	26-OCT-15	34.23	Reconciled
362536		22-OCT-15	USA BLUEBOOK		1,097.93	30-OCT-15	1,097.93	Reconciled
362537		22-OCT-15	VALLEYCREST LANDSCAPE DEVELOPMENT, INC.		3,375.12	26-OCT-15	3,375.12	Reconciled
362538		22-OCT-15	VCS ENVIRONMENTAL		797.28	26-OCT-15	797.28	Reconciled
362539		22-OCT-15	VERIZON CALIFORNIA INC		268.64	28-OCT-15	268.64	Reconciled
362540		22-OCT-15	VWR INTERNATIONAL, LLC		1,552.74	27-OCT-15	1,552.74	Reconciled

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362541		22-OCT-15	WAXIE'S ENTERPRISES, INC		260.51	27-OCT-15	260.51	Reconciled
362542		22-OCT-15	WECK LABORATORIES INC		375.00	27-OCT-15	375.00	Reconciled
362543		22-OCT-15	WEST COAST SAFETY SUPPLY INC		1,529.88	06-NOV-15	1,529.88	Reconciled
362544		22-OCT-15	WESTAMERICA COMMUNICATIONS, INC.		3,727.83	26-OCT-15	3,727.83	Reconciled
362545		22-OCT-15	WINKLE, ANNALISE		17.21	05-NOV-15	17.21	Reconciled
362546		22-OCT-15	WU, CHIA-LIN		32.42	27-OCT-15	32.42	Reconciled
362547		22-OCT-15	XIA, CHONG		17.94	02-NOV-15	17.94	Reconciled
362548		22-OCT-15	YORKE ENGINEERING LLC		3,890.25	28-OCT-15	3,890.25	Reconciled
362549		22-OCT-15	YU, CAROLINE		6.66	10-NOV-15	6.66	Reconciled
362550		22-OCT-15	YUWONO, DANIEL		89.45	27-OCT-15	89.45	Reconciled
362551		26-OCT-15	Swan, Peer	HOME	266.85			Negotiable
362552		29-OCT-15	Murphy, Alexander J (Alexander)		225.00	02-NOV-15	225.00	Reconciled
362553		29-OCT-15	Clinton, Bryan R (Bryan)		105.00	02-NOV-15	105.00	Reconciled
362554		29-OCT-15	Compton, Christine A		169.70	02-NOV-15	169.70	Reconciled
362555		29-OCT-15	Cariker, Cody J (Cody)		235.00	02-NOV-15	235.00	Reconciled
362556		29-OCT-15	Orozco, Gustavo A (Gus)		85.69			Negotiable
362557		29-OCT-15	Navarro, Hector R		625.00	29-OCT-15	625.00	Reconciled
362558		29-OCT-15	Tran, Jason M (Jason)		135.00			Negotiable
362559		29-OCT-15	Oldewage, Lars D (Lars)		483.61	02-NOV-15	483.61	Reconciled
362560		29-OCT-15	Weghorst, Paul A (Paul)		46.00			Negotiable

362561	29-OCT-15	LaMar, Steven E		130.15	03-NOV-15	130.15	Reconciled
362562	29-OCT-15	Malloy, Steven L (Steven)		30.00	05-NOV-15	30.00	Reconciled
362563	29-OCT-15	Fournier, Tanja L (Tanja)		647.66	29-OCT-15	647.66	Reconciled
362564	29-OCT-15	AAF INTERNATIONAL		1,243.55	03-NOV-15	1,243.55	Reconciled
362565	29-OCT-15	ABBOTT, EARLENE L		442.85	03-NOV-15	442.85	Reconciled
362566	29-OCT-15	ADT SECURITY SERVICES INC		240.09	09-NOV-15	240.09	Reconciled
362567	29-OCT-15	AERATION INDUSTRIES INTERNATIONAL INC		15,338.00	05-NOV-15	15,338.00	Reconciled

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 28  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362568		29-OCT-15	AFLAC		471.81	10-NOV-15	471.81	Reconciled
362569		29-OCT-15	AFLAC		9,909.21	03-NOV-15	9,909.21	Reconciled
362570		29-OCT-15	AGILENT TECHNOLOGIES, INC.		1,644.84	02-NOV-15	1,644.84	Reconciled
362571		29-OCT-15	AIRGAS, INC.		210.96	02-NOV-15	210.96	Reconciled
362572		29-OCT-15	ALSTON & BIRD LLP		14,976.70	05-NOV-15	14,976.70	Reconciled
362573		29-OCT-15	AM CONSERVATION GROUP, INC.		299.86	02-NOV-15	299.86	Reconciled
362574		29-OCT-15	AM LEONARD INC		743.90	03-NOV-15	743.90	Reconciled
362575		29-OCT-15	ANTHONY N. LARSEN		400.00	02-NOV-15	400.00	Reconciled
362576		29-OCT-15	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		388.43	03-NOV-15	388.43	Reconciled
362577		29-OCT-15	AQUA-METRIC SALES COMPANY		5,994.00	10-NOV-15	5,994.00	Reconciled
362578		29-OCT-15	AT&T		6,025.54	04-NOV-15	6,025.54	Reconciled
362579		29-OCT-15	AT&T		272.97	04-NOV-15	272.97	Reconciled
362580		29-OCT-15	AT&T		50.01	04-NOV-15	50.01	Reconciled
362581		29-OCT-15	AUSTIN HARDWOODS, INC		74.42	04-NOV-15	74.42	Reconciled
362582		29-OCT-15	BATTERY SPECIALTIES		5,431.16	09-NOV-15	5,431.16	Reconciled
362583		29-OCT-15	BEACH BUNNY HOLDINGS LLC		1,402.53	02-NOV-15	1,402.53	Reconciled
362584		29-OCT-15	BILINGUAL TRAINING INSTITUTE		1,910.00	03-NOV-15	1,910.00	Reconciled
362585		29-OCT-15	BILL'S SWEEPING SERVICE INC		632.50	04-NOV-15	632.50	Reconciled
362586		29-OCT-15	BONTERRA CONSULTING LLC		9,243.95	06-NOV-15	9,243.95	Reconciled
362587		29-OCT-15	BORCHARD SURVEYING & MAPPING, INC.		3,090.00	03-NOV-15	3,090.00	Reconciled
362588		29-OCT-15	BRAND, RON		329.65	02-NOV-15	329.65	Reconciled
362589		29-OCT-15	BRITHINEE ELECTRIC		22,116.99	02-NOV-15	22,116.99	Reconciled
362590		29-OCT-15	BROOKS PRODUCTS		4,688.04	03-NOV-15	4,688.04	Reconciled
362591		29-OCT-15	C WELLS PIPELINE MATERIALS INC		7,173.36	09-NOV-15	7,173.36	Reconciled
362592		29-OCT-15	CALIFORNIA BARRICADE INC		2,160.00	05-NOV-15	2,160.00	Reconciled
362593		29-OCT-15	CANON FINANCIAL SERVICES, INC		8,817.57	03-NOV-15	8,817.57	Reconciled
362594		29-OCT-15	CANON SOLUTIONS AMERICA, INC.		407.01	04-NOV-15	407.01	Reconciled
362595		29-OCT-15	CAROLLO ENGINEERS, INC		307,859.02	05-NOV-15	307,859.02	Reconciled
362596		29-OCT-15	CHEN, MINGJUN		19.49			Negotiable

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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362597		29-OCT-15	CICEK, UMUT		55.18			Negotiable
362598		29-OCT-15	CITY OF IRVINE		1,973.97	05-NOV-15	1,973.97	Reconciled
362599		29-OCT-15	CIVILSOURCE, INC.		17,444.00	05-NOV-15	17,444.00	Reconciled
362600		29-OCT-15	CLA-VAL COMPANY		2,322.25	02-NOV-15	2,322.25	Reconciled
362601		29-OCT-15	CLEARINGHOUSE		477.67	03-NOV-15	477.67	Reconciled
362602		29-OCT-15	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,580.22	03-NOV-15	1,580.22	Reconciled
362603		29-OCT-15	COMMERCE ENERGY INC		386.70	02-NOV-15	386.70	Reconciled
362604		29-OCT-15	COURTOIS, JULES		20.30			Negotiable
362605		29-OCT-15	COX COMMUNICATIONS, INC.		3,372.03	02-NOV-15	3,372.03	Reconciled
362606		29-OCT-15	CREDENTIAL CHECK		554.84	02-NOV-15	554.84	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
362607	29-OCT-15		CORPORATION		11,711.16	05-NOV-15	11,711.16	Reconciled
362608	29-OCT-15		D & G SIGNS		9,350.00	04-NOV-15	9,350.00	Reconciled
362609	29-OCT-15		DAVIS FARR LLP		362.88	02-NOV-15	362.88	Reconciled
362610	29-OCT-15		DELL MARKETING LP		7,939.12	03-NOV-15	7,939.12	Reconciled
362611	29-OCT-15		DELL MARKETING LP		4,945.50	04-NOV-15	4,945.50	Reconciled
362612	29-OCT-15		EHS INTERNATIONAL, INC		9,391.25	03-NOV-15	9,391.25	Reconciled
362613	29-OCT-15		ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.		500.00			Negotiable
362614	29-OCT-15		EXCHANGE CLUB OF IRVINE		269.55	10-NOV-15	269.55	Reconciled
362615	29-OCT-15		FARRELL & ASSOCIATES		372.87	05-NOV-15	372.87	Reconciled
362616	29-OCT-15		FEDEX		674.03	02-NOV-15	674.03	Reconciled
362617	29-OCT-15		FISHER SCIENTIFIC COMPANY LLC		626.40	10-NOV-15	626.40	Reconciled
362618	29-OCT-15		GALLADE CHEMICAL INC		60.86	06-NOV-15	60.86	Reconciled
362619	29-OCT-15		GANAHL LUMBER CO.		1,381.97	02-NOV-15	1,381.97	Reconciled
362620	29-OCT-15		GARZA INDUSTRIES, INC		933.42	03-NOV-15	933.42	Reconciled
362621	29-OCT-15		GEXPRO		1,945.44	02-NOV-15	1,945.44	Reconciled
362622	29-OCT-15		GRAINGER		2,021.40	03-NOV-15	2,021.40	Reconciled
362623	29-OCT-15		GRIFFIN DEWATERING CORPORATION		1,071.60	02-NOV-15	1,071.60	Reconciled
362624	29-OCT-15		GUY L WARDEN & SONS		4,341.08	02-NOV-15	4,341.08	Reconciled
362625	29-OCT-15		HACH COMPANY		850.18	04-NOV-15	850.18	Reconciled
362625	29-OCT-15		HARDY & HARPER INC					

IRWD Ledger  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362626	29-OCT-15		HARMSWORTH ASSOCIATES		2,765.00			Negotiable
362627	29-OCT-15		HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		198.36	02-NOV-15	198.36	Reconciled
362628	29-OCT-15		HEIDEN, ANDREA		46.40	06-NOV-15	46.40	Reconciled
362629	29-OCT-15		HELPMATES STAFFING SERVICES		12,455.93	04-NOV-15	12,455.93	Reconciled
362630	29-OCT-15		HILL BROTHERS CHEMICAL COMPANY		13,027.45	04-NOV-15	13,027.45	Reconciled
362631	29-OCT-15		HOME DEPOT USA INC		416.56	04-NOV-15	416.56	Reconciled
362632	29-OCT-15		HUNSAKER & ASSOCIATES IRVINE		1,008.00	03-NOV-15	1,008.00	Reconciled
362633	29-OCT-15		IBM CORPORATION		4,746.00	02-NOV-15	4,746.00	Reconciled
362634	29-OCT-15		IDENTICARD SYSTEMS WORLDWIDE		784.38	05-NOV-15	784.38	Reconciled
362635	29-OCT-15		IDEXX DISTRIBUTION, INC		1,098.04	02-NOV-15	1,098.04	Reconciled
362636	29-OCT-15		INSTANT-OFF INC. A DELAWARE CORPORATION		1,252.20	02-NOV-15	1,252.20	Reconciled
362637	29-OCT-15		IRVINE CHAMBER OF COMMERCE		1,250.00	03-NOV-15	1,250.00	Reconciled
362638	29-OCT-15		IRVINE PIPE & SUPPLY INC		1,405.49	02-NOV-15	1,405.49	Reconciled
362639	29-OCT-15		IRWD EMPLOYEE ASSOCIATION		800.00			Negotiable
362640	29-OCT-15		KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		325.00	03-NOV-15	325.00	Reconciled
362641	29-OCT-15		KIM, ILHYUN		381.01			Negotiable
362642	29-OCT-15		LADIKA, BERNADETTE M		157.40	09-NOV-15	157.40	Reconciled
362643	29-OCT-15		LAGUNA BEACH COUNTY WATER DISTRICT		5,513.24	10-NOV-15	5,513.24	Reconciled
362644	29-OCT-15		LAKE WEEDERS DIGEST, LLC		48,447.00	05-NOV-15	48,447.00	Reconciled
362645	29-OCT-15		LANDCARE HOLDINGS, INC.		2,070.92	02-NOV-15	2,070.92	Reconciled
362646	29-OCT-15		LEWIS BRISBOIS BISGAARD AND SMITH, LLP		240.00	03-NOV-15	240.00	Reconciled
362647	29-OCT-15		LEWIS OPERATING CORP		600.00	04-NOV-15	600.00	Reconciled
362648	29-OCT-15		LINCOLN, CLARA M		377.21			Negotiable

IRWD Ledger  
 BANK: Bank of America N.A. Branch : Los Angeles  
 Bank Account Currency: USD ( US Dollar )  
 Payment Type: All

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
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Payment Document : IRWD CHECK

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
362649		29-OCT-15	LUBRICATION ENGINEERS, INC.		5,785.56	02-NOV-15	5,785.56	Reconciled
362650		29-OCT-15	MAIN ELECTRIC SUPPLY COMPANY LLC		304.97	03-NOV-15	304.97	Reconciled
362651		29-OCT-15	MARK ENTERPRISES, INC.		1,800.00	04-NOV-15	1,800.00	Reconciled
362652		29-OCT-15	MARK, NANCY		6.17	03-NOV-15	6.17	Reconciled
362653		29-OCT-15	MC MASTER CARR SUPPLY CO		155.59	03-NOV-15	155.59	Reconciled
362654		29-OCT-15	MECHANICAL SEAL REPAIR INC		712.44	06-NOV-15	712.44	Reconciled
362655		29-OCT-15	MISCOWATER		1,172.33			Negotiable
362656		29-OCT-15	MODERN WATER INC		578.55	03-NOV-15	578.55	Reconciled
362657		29-OCT-15	NATIONAL CINEMEDIA, LLC		4,296.00	04-NOV-15	4,296.00	Reconciled
362658		29-OCT-15	NATIONAL READY MIXED CONCRETE CO.		2,900.64	02-NOV-15	2,900.64	Reconciled
362659		29-OCT-15	NCH CORPORATION		225.01	03-NOV-15	225.01	Reconciled
362660		29-OCT-15	O.I. ANALYTICAL		2,600.00	03-NOV-15	2,600.00	Reconciled
362661		29-OCT-15	OCTA		519.00	03-NOV-15	519.00	Reconciled
362662		29-OCT-15	OLIN CORPORATION		11,375.90	05-NOV-15	11,375.90	Reconciled
362663		29-OCT-15	ORANGE COUNTY VECTOR CONTROL DISTRICT		4,121.58	06-NOV-15	4,121.58	Reconciled
362664		29-OCT-15	OZONIA NORTH AMERICA, LLC		23,971.90	06-NOV-15	23,971.90	Reconciled
362665		29-OCT-15	PAR PHARMACEUTICAL INC		1,570.00			Negotiable
362666		29-OCT-15	PARK WEST LANDSCAPE		1,805.01			Negotiable
362667		29-OCT-15	PARK, HEE		1.54			Negotiable
362668		29-OCT-15	PARKWAY LAWNMOWER SHOP		422.24	03-NOV-15	422.24	Reconciled
362669		29-OCT-15	PERS LONG TERM CARE		851.14	05-NOV-15	851.14	Reconciled
362670		29-OCT-15	PIVOT INTERIORS INC		19,423.65	04-NOV-15	19,423.65	Reconciled
362671		29-OCT-15	PRAXAIR DISTRIBUTION INC		3,395.68	03-NOV-15	3,395.68	Reconciled
362672		29-OCT-15	PRE-PAID LEGAL SERVICES INC		2,000.31	04-NOV-15	2,000.31	Reconciled
362673		29-OCT-15	PRES-TECH MANUFACTURER'S REPRESENTATIVES, INC.		157.56	03-NOV-15	157.56	Reconciled

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 32  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362674		29-OCT-15	PTI SAND & GRAVEL INC		1,087.17	06-NOV-15	1,087.17	Reconciled
362675		29-OCT-15	QUALITY LAWN SERVICE		225.00	04-NOV-15	225.00	Reconciled
362676		29-OCT-15	R & R INDUSTRIAL SERVICES, INC.		4,514.67	04-NOV-15	4,514.67	Reconciled
362677		29-OCT-15	R & S SOIL PRODUCTS INC		842.40	09-NOV-15	842.40	Reconciled
362678		29-OCT-15	R&B AUTOMATION, INC.		5,876.80	03-NOV-15	5,876.80	Reconciled
362679		29-OCT-15	RAININ INSTRUMENT, LLC		4,592.27	03-NOV-15	4,592.27	Reconciled
362680		29-OCT-15	RAM AIR ENGINEERING INC		4,065.00	03-NOV-15	4,065.00	Reconciled
362681		29-OCT-15	RANCHO MADERAS APTS		47.27			Negotiable
362682		29-OCT-15	RESOURCE BUILDING MATERIAL		1,227.20	04-NOV-15	1,227.20	Reconciled
362683		29-OCT-15	ROBERT HALF INTERNATIONAL, INC.		2,376.00	02-NOV-15	2,376.00	Reconciled
362684		29-OCT-15	SANTIAGO AQUEDUCT COMMISSION		7,760.33			Negotiable
362685		29-OCT-15	SEAL ANALYTICAL INC		150.08	02-NOV-15	150.08	Reconciled
362686		29-OCT-15	SHAMROCK SUPPLY CO INC		820.90	02-NOV-15	820.90	Reconciled
362687		29-OCT-15	SIDDIQUI, ZACK		101.62			Negotiable
362688		29-OCT-15	SIGMA-ALDRICH INC		1,103.17	02-NOV-15	1,103.17	Reconciled
362689		29-OCT-15	SIRIUS COMPUTER SOLUTIONS INC		110,655.49	06-NOV-15	110,655.49	Reconciled
362690		29-OCT-15	SOCAL ASSOCIATES INVESTIGATIONS		16,920.50	09-NOV-15	16,920.50	Reconciled
362691		29-OCT-15	SOUTHERN CALIFORNIA EDISON COMPANY		102,317.71	02-NOV-15	102,317.71	Reconciled

362692	29-OCT-15	SPARKLETTS	409.79	10-NOV-15	409.79	Reconciled
362693	29-OCT-15	SPATIAL WAVE, INC.	8,490.00	03-NOV-15	8,490.00	Reconciled
362694	29-OCT-15	STANTEC CONSULTING SERVICES INC.	18,198.00	05-NOV-15	18,198.00	Reconciled
362695	29-OCT-15	STATE BOARD OF EQUALIZATION	988.46	06-NOV-15	988.46	Reconciled
362696	29-OCT-15	STATE BOARD OF EQUALIZATION	1,098.00	04-NOV-15	1,098.00	Reconciled
362697	29-OCT-15	STATE OF CALIFORNIA	196.00	12-NOV-15	196.00	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362698		29-OCT-15	STATE WATER RESOURCES CONTROL BOARD		46,152.60	05-NOV-15	46,152.60	Reconciled
362699		29-OCT-15	STEVEN ENTERPRISES INC		1,036.80	02-NOV-15	1,036.80	Reconciled
362700		29-OCT-15	TESTAMERICA LABORATORIES, INC		52.50	04-NOV-15	52.50	Reconciled
362701		29-OCT-15	TIC-IPG-COMMON		4,501.38	06-NOV-15	4,501.38	Reconciled
362702		29-OCT-15	TIC-OFFICE PROPERTIES		408.39	06-NOV-15	408.39	Reconciled
362703		29-OCT-15	TIC-RESORT PROPERTIES		515.19	06-NOV-15	515.19	Reconciled
362704		29-OCT-15	TROPICAL PLAZA NURSERY INC		3,761.08	02-NOV-15	3,761.08	Reconciled
362705		29-OCT-15	TRUCPARCO		211.40	10-NOV-15	211.40	Reconciled
362706		29-OCT-15	U.S. HEALTHWORKS MEDICAL GROUP, P.C.		911.22	02-NOV-15	911.22	Reconciled
362707		29-OCT-15	ULTRA SCIENTIFIC		249.20	03-NOV-15	249.20	Reconciled
362708		29-OCT-15	UNITED PARCEL SERVICE INC		71.99	02-NOV-15	71.99	Reconciled
362709		29-OCT-15	URS CORPORATION		3,250.00	02-NOV-15	3,250.00	Reconciled
362710		29-OCT-15	US BANK NAT'L ASSOCIATION NORTH DAKOTA		117,348.33			Negotiable
362711		29-OCT-15	VALLEY CREST LANDSCAPE COMPANIES		664.79	05-NOV-15	664.79	Reconciled
362712		29-OCT-15	VANTON PUMP & EQUIPMENT CORP.		12,749.40	05-NOV-15	12,749.40	Reconciled
362713		29-OCT-15	VERIZON CALIFORNIA INC		312.89	04-NOV-15	312.89	Reconciled
362714		29-OCT-15	VERIZON WIRELESS SERVICES LLC		6,109.64	05-NOV-15	6,109.64	Reconciled
362715		29-OCT-15	VULCAN MATERIALS COMPANY		1,350.33	03-NOV-15	1,350.33	Reconciled
362716		29-OCT-15	VWR INTERNATIONAL, LLC		1,169.36	04-NOV-15	1,169.36	Reconciled
362717		29-OCT-15	WALTERS WHOLESALE ELECTRIC		518.82	04-NOV-15	518.82	Reconciled
362718		29-OCT-15	WATERLINE TECHNOLOGIES INC		2,840.00	02-NOV-15	2,840.00	Reconciled
362719		29-OCT-15	WAXIE'S ENTERPRISES, INC		2,508.02	04-NOV-15	2,508.02	Reconciled
362720		29-OCT-15	WECK LABORATORIES INC		565.00	02-NOV-15	565.00	Reconciled

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
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 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
362721		29-OCT-15	WESTERN AV		1,197.96	03-NOV-15	1,197.96	Reconciled
362722		29-OCT-15	WESTERN WATER WORKS SUPPLY COMPANY		663.60	02-NOV-15	663.60	Reconciled
362723		29-OCT-15	WIN-911 SOFTWARE		4,490.00			Negotiable
362724		29-OCT-15	WOOD RODGERS, INC.		726.81	02-NOV-15	726.81	Reconciled
362725		29-OCT-15	WOODRUFF, SPRADLIN & SMART APC		51.00	04-NOV-15	51.00	Reconciled
362726		29-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA		7,936.25	02-NOV-15	7,936.25	Reconciled
362727		29-OCT-15	YUAN, HAO		1,395.76	03-NOV-15	1,395.76	Reconciled
362728		29-OCT-15	FORESITE ESCROW, INC.	PURCHASE	200,000.00			Negotiable
Payment Document Subtotal:					10,229,174.19		9,649,049.23	

Payment Document : IRWD Wire

11191	02-OCT-15	J.R. FILANC CONSTRUCTION COMPANY INC.	ESCONDIDO	229,930.49	Negotiable
11192	08-OCT-15	CALPERS	SACRAMENTO 1	376,105.89	Negotiable
11193	06-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA	PAY	1,670.05	Negotiable
11194	06-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA	PAY	4,979.79	Negotiable
11195	08-OCT-15	FILANC-BALFOUR BEATTY JV	ACT 4427724347	3,092,892.91	Negotiable
11196	08-OCT-15	FILANC-BALFOUR BEATTY JV	ESR 211084000	343,654.76	Negotiable
11197	13-OCT-15	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	9,391.73	Negotiable
11198	13-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA	PAY	7,038.01	Negotiable
11199	16-OCT-15	INTERNAL REVENUE SERVICE	FRESNO	170,975.04	Negotiable
11200	16-OCT-15	FRANCHISE TAX BOARD	SACRAMENTO	46,506.66	Negotiable

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 35  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11201		16-OCT-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	9,414.93			Negotiable
11202		16-OCT-15	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.17			Negotiable
11203		16-OCT-15	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,074.26			Negotiable
11204		16-OCT-15	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,362.00			Negotiable
11205		16-OCT-15	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	92,792.87			Negotiable
11206		16-OCT-15	CALPERS	SACRAMENTO	84,651.47			Negotiable
11207		16-OCT-15	INTERNAL REVENUE SERVICE	FRESNO	177,379.22			Negotiable
11208		16-OCT-15	FRANCHISE TAX BOARD	SACRAMENTO	48,959.47			Negotiable
11209		16-OCT-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	9,092.12			Negotiable
11210		16-OCT-15	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,074.26			Negotiable
11211		16-OCT-15	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	11,131.03			Negotiable
11212		16-OCT-15	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	125,346.07			Negotiable
11213		16-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	11,805.56			Negotiable
11214		16-OCT-15	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	737,321.90			Negotiable
11215		16-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	2,503,739.73			Negotiable
11216		16-OCT-15	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	116.71			Negotiable
11217		16-OCT-15	BANK OF AMERICA	SAN FRANCISCO	2,500,554.70			Negotiable
11218		16-OCT-15	U.S. BANK NATIONAL ASSOCIATION	PAY	2,500,554.70			Negotiable

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 36  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								

11219	16-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	18,086.11	Voided
11220	16-OCT-15	US BANK NAT'L ASSOC N.DAKOTA	PO BOX 70870	92,122.54	Negotiable
11221	16-OCT-15	MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	781,386.30	Negotiable
11222	19-OCT-15	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	431.51	Negotiable
11223	19-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	284.38	Negotiable
11224	19-OCT-15	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	67,231.40	Negotiable
11225	19-OCT-15	BANK OF AMERICA	SAN FRANCISCO	61,934.88	Negotiable
11226	19-OCT-15	U.S. BANK NATIONAL ASSOCIATION	ST. LOUIS	8,956.92	Negotiable
11227	20-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA	PAY	11,066.30	Negotiable
11228	21-OCT-15	PEAR, LORIN	PAY	20.00	Negotiable
11229	26-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	10,486.11	Negotiable
11230	27-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	275.00	Negotiable
11231	27-OCT-15	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	7,291.67	Negotiable
11232	27-OCT-15	INTERNAL REVENUE SERVICE	FRESNO	22.24	Negotiable
11233	27-OCT-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	9.92	Negotiable
11234	28-OCT-15	YORK INSURANCE SERVICES GROUP INC - CA	PAY	16,833.34	Negotiable
11235	29-OCT-15	J.R. FILANC CONSTRUCTION COMPANY INC.	ESCONDIDO	2,337,071.89	Negotiable

IRWD Ledger Payment Register For 01-OCT-15 To 31-OCT-15 Report Date: 13-NOV-2015 10:56  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 37  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD Wire								
11236		29-OCT-15	PCL CONSTRUCTION, INC.	ACCT 6971821722	4,129,650.90			Negotiable
11237		29-OCT-15	PCL CONSTRUCTION, INC.	ESR 141511.1	458,850.10			Negotiable
11238		29-OCT-15	FRANCHISE TAX BOARD	SACRAMENTO	44,891.32			Negotiable
11239		29-OCT-15	INTERNAL REVENUE SERVICE	FRESNO	165,194.35			Negotiable
11240		29-OCT-15	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	8,445.68			Negotiable
11241		30-OCT-15	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	500.77			Negotiable
11242		30-OCT-15	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,074.26			Negotiable
11243		30-OCT-15	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,470.84			Negotiable
11244		30-OCT-15	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER	96,325.15			Negotiable
11245		30-OCT-15	U.S. BANK NATIONAL ASSOCIATION	PAY	5,794,250.00			Negotiable
Payment Document Subtotal:					27,235,180.38			
Bank Account Subtotal :					37,464,354.57		9,649,049.23	
Report Count : 926	Report Total:				37,464,354.57		9,649,049.23	
Total Disbursement								

\*\*\* End of Report \*\*\*

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IRWD Ledger

Void Payment Register

Report Date: 13-NOV-2015 10:56  
Page: 1

Include Zero Amount Payments: Yes  
Display Payee Address: No

Period From: 01-OCT-15

To: 31-OCT-15  
Date: Void Date

Bank: Bank of America N.A.

Branch: Los Angeles

Account: Checking AP and PR

Bank Account Currency: USD

Payment Currency: USD ( US Dollar )

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
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Payment Document: IRWD CHECK

359664	25-JUN-15	Perez, Rodolfo (Rudy)	HOME		48.40	08-OCT-15
360015	09-JUL-15	TSUGE, BRANDON	PAY		42.37	21-OCT-15
360099	16-JUL-15	JORDAN, KENDALL	PAY		78.12	21-OCT-15
360336	30-JUL-15	Zepeda, Jose	HOME		9.75	02-OCT-15
360429	30-JUL-15	LU, ZHENGJIE	PAY		15.59	21-OCT-15
360454	30-JUL-15	PRIDEMARK CONTRACTORS INC	PAY		897.32	21-OCT-15
360531	06-AUG-15	BIN JUMA, FAHAD	PAY		55.15	21-OCT-15

Payment Document Subtotal 1,146.70

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
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Payment Document: IRWD Wire

11219	16-OCT-15	BANK OF NEW YORK MELLON TRU NEWARK			18,086.11	26-OCT-15
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Payment Document Subtotal 18,086.11

Bank Account Subtotal 19,232.81

Report Count: 8

Report Total 19,232.81

Total Voids

\*\*\* End of Report \*\*\*

\$ 37,464,354.57 Disbursements  
<19,232.81> Voids  
 \$ 37,445,121.76 Total Voids and Disbursements

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-OCT-15 to 31-OCT-15

NAME	CHECK NO.	CHECK DATE	TRANSACTION	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Amezcuca, Joshua	361862	1-Oct-15	865.00	Membership/Certification	WasteWater Grade IV Operator certification
Bennett, Ray	362183	15-Oct-15	176.30	Mileage	July progress meeting and Well inspection for Rosedale Drought project
Bennett, Ray	362183	15-Oct-15	176.30	Mileage	Aug. progress meeting and well inspection for Rosedale Drought project
Bennett, Ray	362183	15-Oct-15	176.30	Mileage	Sept. progress meeting and well inspection for Rosedale Drought project
Bonkowski, Leslie	362377	22-Oct-15	141.02	Other(Misc)	Meeting supplies
Cariker, Cody	362555	29-Oct-15	130.00	Membership/Certification	Water Distribution Grade IV exam fee
Cariker, Cody	362555	29-Oct-15	105.00	Membership/Certification	Water Distribution Grade IV certification fee
Clinton, Bryan	362553	29-Oct-15	105.00	Membership/Certification	Water Treatment Operator Grade IV certification fee
Colvin, Todd	362188	15-Oct-15	130.00	Membership/Certification	Todd Colvin - Grade IV Treatment Operator Fees Reimbursement
Coria, Alex	361859	1-Oct-15	230.00	Membership/Certification	WasteWater Grade II certification fee
Coria, Alex	361859	1-Oct-15	156.00	Membership/Certification	CWEA Membership and Collections Grade II renewal fee
Fournier, Tanja	361991	8-Oct-15	154.81	Other(Misc)	Meeting supplies for National Save for Retirement Week
Fournier, Tanja	362563	29-Oct-15	600.00	Other(Misc)	Meeting supplies for National Save for Retirement Week
Guzman, Juan	361863	1-Oct-15	162.00	Other(Misc)	Safety shoes allowance
La, Jason	362177	15-Oct-15	249.00	Membership/Certification	AWWA annual membership renewal
Leal, Eliberto	361861	1-Oct-15	156.00	Membership/Certification	CWEA Membership and Collections Grade II renewal fee
Lee, Randy	362380	22-Oct-15	115.00	Membership/Certification	Civil Engineer certificate renewal fee
Moore, Rory	361990	8-Oct-15	164.00	Membership/Certification	CWEA Mmmbership renewal fee
Murphy, Alex	362552	29-Oct-15	225.00	Membership/Certification	ASCE embership renewal fee
Navarro, Hector	362557	29-Oct-15	625.00	Other(Misc)	Membership fees
Norman, Tammy	362186	15-Oct-15	102.92	Other(Misc)	Meeting supplies
Oldewage, Lars	361988	8-Oct-15	256.00	Airfare	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	361988	8-Oct-15	252.59	Lodging	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	361988	8-Oct-15	252.59	Lodging	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	361988	8-Oct-15	252.59	Lodging	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	361988	8-Oct-15	252.59	Lodging	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	361988	8-Oct-15	100.00	Parking Fee	WEFTEC Annual Water Conf., Chicago, IL Sep. 26-30, 2015
Oldewage, Lars	362559	29-Oct-15	218.00	Membership/Certification	WEF annual membership renewal fee
Oldewage, Lars	362559	29-Oct-15	185.00	Membership/Certification	ACS annual memembership renewal fee
Pizanie, Nicholas	362182	15-Oct-15	190.00	Membership/Certification	Distribution Grade III certification and exam fee
Roberts, Thomas	362187	15-Oct-15	105.00	Membership/Certification	Water Treatment Operator Grade T5 exam fee
Roberts, Thomas	362187	15-Oct-15	155.00	Membership/Certification	Water Treatment Operator Grade T5 certification fee
Savedra, Nancy	361989	8-Oct-15	102.31	Other(Misc)	Meeting supplies
Tran, Jason	362558	29-Oct-15	135.00	Membership/Certification	MLT certification renewal fee
<b>Total Amount:</b>			<b>\$7,401.32</b>		

November 23, 2015

Prepared by: J. Nash/R. Mori

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

Approved by: Paul Cook *P. Cook*

## CONSENT CALENDAR

### AUTOMATION SUPPORT CONSULTANT SERVICES

#### SUMMARY:

Since March 2014, Vertech Industrial Systems has provided automation support services including PLC programming, HMI Development, and commissioning services for multiple capital projects. With the majority of the initially scoped projects complete, staff recommends that the Board authorize the General Manager to execute a new Professional Services Agreement, in the amount of \$200,000, with Vertech for additional automation support services for upcoming capital projects.

#### BACKGROUND:

Staff previously retained Vertech to provide automation support services for various projects including Well 115, Syphon Reservoir Interim Facilities, Well OPA-1, Michelson Lift Station, Hidden Canyon Zone 3-4 and Zone B-C Booster Pump Stations, Manning/Portola Emergency Generators, and Baker Raw Water Pump Station. Vertech has completed its work on all projects except for the Baker Raw Water Pump Station, which is scheduled to be complete in early 2016. Through the execution of these projects, individuals from Vertech have become proficient with the District's automation hardware and software systems, programming standards and requirements, and automation development processes. Additionally, Vertech has developed an unparalleled understanding of the District's facility startup and commissioning practices, which has improved the overall facility startup process with the District's contractors. Vertech has completed the work on time and on budget and has demonstrated an in-depth understanding of the District's automation practices throughout the execution of the work.

#### Professional Services Agreement with Vertech:

Based on the successful partnership with Vertech on the initially scoped projects, staff has evaluated upcoming projects and identified a need for additional automation support services associated with the ILP North Conversion, East Irvine Zone 1-3 BPS Pipe and Flow Meter Replacement, Newport Coast Lift Station Rehabilitation, Chloramine Booster Stations at Two Domestic Water Reservoirs, IDF Sodium Hypochlorite Storage and Feed, San Joaquin Marsh Modifications, and the Michelson FPS-2 Roof and Exhaust Fan Replacement projects.

Staff recommends that a Professional Services Agreement, in the amount of \$200,000, be executed with Vertech to provide additional automation support services for the projects described above. A copy of Vertech's billing rate schedule, which remains unchanged from the previous agreement, is provided as Exhibit "A". The proposed billing rates are comparable with those of other automation consultants who previously performed work at the District.

FISCAL IMPACTS:

Automation support services will be provided for projects that are included in the FY 2015-16 Capital Budget. The available budgets and existing Expenditure Authorizations for those projects will be used to fund these services.

ENVIRONMENTAL COMPLIANCE:

Activities such as executing agreements for consulting services are exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3). These types of activities are covered by the general rule that CEQA applies only to projects which have the potential for causing a significant direct effect on the environment or reasonably indirect effect on the environment. In addition, the specific projects identified herein, are subject to CEQA and have either already completed, or are currently undergoing, the CEQA review process.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT, IN THE AMOUNT OF \$200,000, WITH VERTECH FOR AUTOMATION SUPPORT SERVICES.

LIST OF EXHIBITS:

Exhibit "A" – Vertech Billing Rate Schedule



EXHIBIT "A"

CONSULTING AND SERVICES RATES 2015-2016

Vertech Industrial Systems typically provides fixed price quotes for projects requiring our services. However, for clients who prefer to work on a time and materials basis or for clients requiring consulting or repair services, we provide the following hourly rates.

Service Descriptions and Rates

Scheduled Services

Control system consulting or repair services scheduled more than one week in advance are considered scheduled services.

High Priority / Emergency Services

Services offered per availability. Rates can also be negotiated depending on availability.

Scheduled Services – Normal Business Hours (M-F 7am-5pm):

Type	Rate
Project Manager/Senior Controls Integrator	\$165.00/hour
Controls Integrator	\$130.00/hour

Scheduled Services - After Business Hours:

Type	Rate
Project Manager/Senior Controls Integrator	\$225.00/hour
Controls Integrator	\$165.00/hour

Scheduled Services – Holidays:

Type	Rate
Project Manager/Senior Controls Integrator	\$255.00/hour
Controls Integrator	\$185.00/hour

Travel and Expenses

Travel time is charged round trip from our office to the job site. Travel expenses are charged as follows:

Cost	Charge
Mileage	GSA Mileage
Meals	GSA Per diem
Airfare, hotel, parking, car rental, etc.	Cost plus 15%

November 23, 2015

Prepared by: C. Kessler/K. Lew

Submitted by: K. Burton *KLB*

Approved by: Paul Cook *[Signature]*

## CONSENT CALENDAR

### LAGUNA CANYON ROAD AND TECHNOLOGY DRIVE CAPITAL RECYCLED WATER FACILITIES

#### SUMMARY:

Irvine Community Development Company (ICDC) is proceeding with development of the Technology Drive Extension. As part of the Technology Drive Extension, ICDC will construct approximately 6,000 feet of 24-inch recycled water pipeline within Laguna Canyon Road and Technology Drive. Project 30366 is included in the FY 2015-2016 Capital Budget in the amount of \$3,223,500. Staff recommends that the Board authorize the General Manager to accept ICDC's construction contract with Sukut in the amount of \$2,344,000 for the Laguna Canyon Road and Technology Drive Capital Recycled Water Facilities, Project 30366.

#### BACKGROUND:

ICDC is moving forward with the extension of Technology Drive. As part of the Technology Drive Extension Project, ICDC will construct capital recycled water facilities within Laguna Canyon Road and Technology Drive as shown in the Location Map, attached as Exhibit "A". The required IRWD capital facilities are documented within the 2011 Planning Area 40 Sub-Area Master Plan, and subsequent addendums and updates as prepared by Stantec.

The design and construction of the IRWD facilities will be performed under the terms of the Master Reimbursement Agreement and Supplemental Reimbursement Agreement between ICDC and IRWD approved by the Board in May 1997 and December 2014, respectively.

The Project consists of installing approximately 6,000 feet of 24-inch recycled water pipeline within Laguna Canyon Road between Irvine Center Drive and the new segment of Technology Drive, the new segment of Technology Drive between Laguna Canyon Road and the existing segment of Technology Drive, and within the utility easement between the new segment of Technology Drive up to the Heritage Fields El Toro LLC property. ICDC retained Michael Baker International to prepare the plans and it received bids from four contractors. ICDC recommends awarding the construction contract to the lowest bidder, Sukut, for a bid amount of \$2,344,000, as shown in Exhibit "B". In addition, ICDC received consultant proposals for geotechnical observation and testing, surveying, construction support services and field archeological/paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the Project costs is shown in the following list.

Consent Calendar: Laguna Canyon Road and Technology Drive Capital Recycled Water Facilities

November 23, 2015

Page 2

Design (Michael Baker Int'l)	\$ 288,680.00
Design Change Order #1	\$ 40,777.00
Construction (Sukut)	\$2,344,000.00
Civil Engineering Services (Michael Baker Int'l)	\$ 59,680.00
Geotechnical Services (GMU)	\$ 62,075.00
Geotechnical Services- 3 <sup>rd</sup> Party (Geopentech)	\$ 19,510.00
Survey/Staking (Michael Baker Int'l)	\$ 10,000.19
Field Archeo/Paleo Monitoring (LSA)	\$ 7,850.00
Heritage Fields Administration Fee (1%)	<u>\$ 23,440.00</u>
	\$2,856,012.19

FISCAL IMPACTS:

Project 30366 (1015) is included in the FY 2015-16 Capital Budget. The existing budget is sufficient to fund design and construction.

ENVIRONMENTAL COMPLIANCE:

Construction of capital recycled water facilities as a part of the Technology Drive Extension Project 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 County of Orange on August 11, 1992 (920-31007).

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

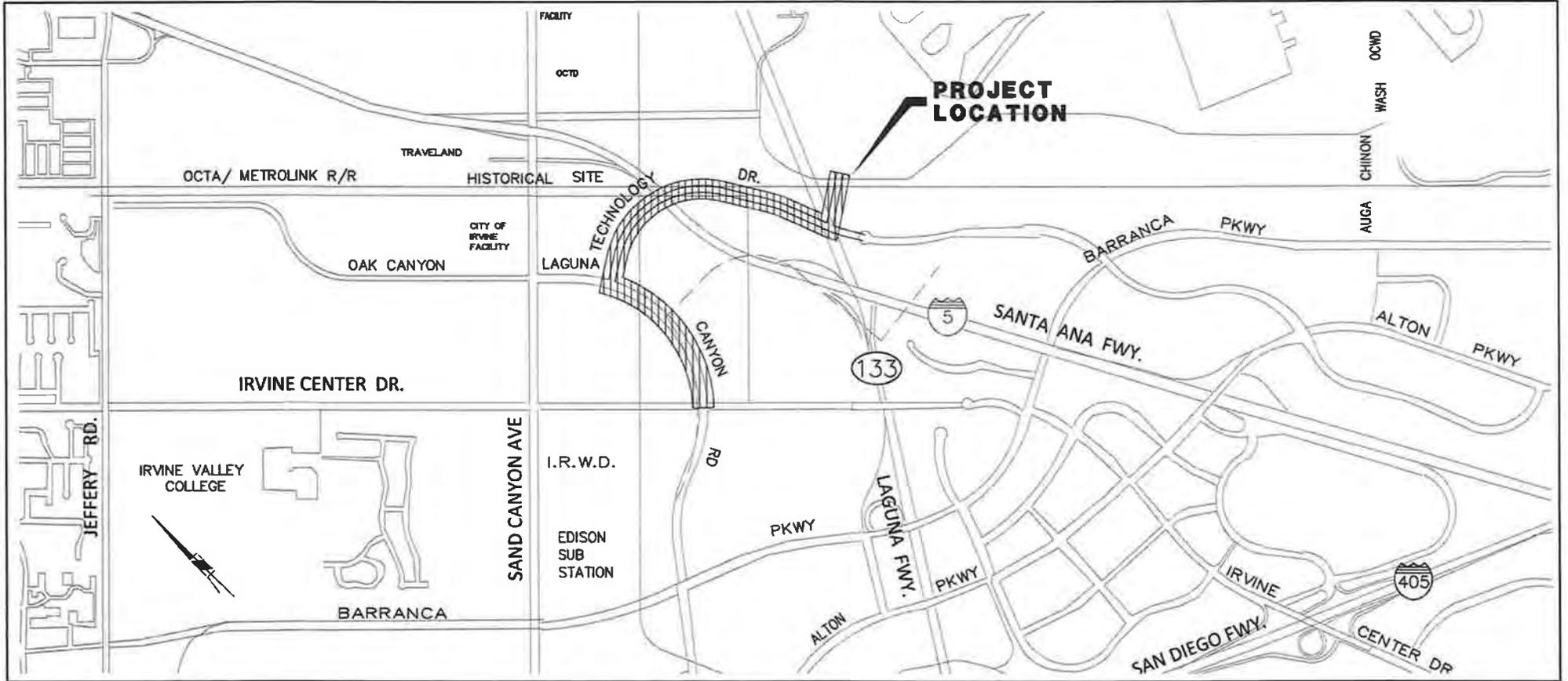
RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO ACCEPT IRVINE COMMUNITY DEVELOPMENT COMPANY'S CONSTRUCTION CONTRACT WITH SUKUT IN THE AMOUNT OF \$2,344,000 FOR THE LAGUNA CANYON ROAD AND TECHNOLOGY DRIVE CAPITAL RECYCLED WATER FACILITIES, PROJECT 30366.

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Bid Summary

# EXHIBIT "A"



LOCATION MAP

# EXHIBIT "B"

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**BID SUMMARY**  
**SPECTRUM II - TECHNOLOGY DRIVE EXTENSION PROJECTS**  
**ASSESSMENT DISTRICT, NON ASSESSMENT DISTRICT, IRWD CAPITAL AND NON CAPITAL IMPROVEMENTS**  
**ALL PREVAILING WAGE**  
**BID PACKAGE: 000237**  
**TASK CODE: LD-IRWD-01.cdm**

IRWD 3rd Bid

IRWD Lowest Bid

IRWD 2nd Bid

IRWD 4th Bid

	ENGINEER'S ESTIMATE RBF	LOW BIDDER HILLCREST	2ND BIDDER SUKUT	3RD BIDDER SANTA ANA CREEK	4TH BIDDER KEC
165A OWNER'S OPTION ALTERNATE 1A - 24" RECYCLED WATER PIPELINE SLURRY SEAL AND RESTRIPE - (SEE PROJECT APPENDIX H-2 FOR LIMITS)	75,650 SF \$1.00 \$75,650.00	\$0.35 \$26,477.50	\$0.40 \$30,260.00	\$0.21 \$15,896.50	\$0.65 \$49,172.50 ALTERNATE 1A
165B OWNER'S OPTION ALTERNATE 1B - 24" RECYCLED WATER PIPELINE 2.0 INCH COLD PLANE - (SEE PROJECT APPENDIX H-2 FOR LIMITS)	\$1,570 SF \$0.50 \$785.00	\$0.26 \$408.20	\$0.40 \$628.00	\$0.32 \$502.40	\$0.55 \$363.50 ALTERNATE 1B
168B CONSTRUCT HMA-A OVERLAY (2.0 INCH DEPTH) AND RESTRIPE - (SEE APPENDIX H-2 FOR LIMITS)	51,570 SF \$1.25 \$64,462.50	\$1.29 \$66,525.30	\$1.25 \$64,462.50	\$1.08 \$55,695.60	\$1.40 \$72,198.00 ALTERNATE 1B
TOTAL IRWD OWNER'S OPTION ALTERNATE 1A BID PRICE (SECTION M-02.)		\$26,477.50	\$30,260.00	\$15,896.50	\$49,172.50 ALTERNATE 1A
TOTAL IRWD OWNER'S OPTION ALTERNATE 1B BID PRICE (SECTION M-02.)		\$90,247.50	\$79,833.50	\$72,198.00	\$100,561.50 ALTERNATE 1B
GRAND IRWD TOTAL BASE CONTRACT BID PRICE AND OWNER'S OPTION (SECTIONS A -S.) (ALTERNATE 1A)		\$2,954,850.00	\$2,962,042.50	\$2,554,545.50	\$4,000,000.00 ALTERNATE 1A
GRAND TOTAL IRWD BASE CONTRACT BID PRICE AND OWNER'S OPTION (SECTIONS A -S.) (ALTERNATE 1B)		\$2,868,447.50	\$3,015,498.50	\$2,610,857.00	\$4,051,360.00 ALTERNATE 1B
GRAND TOTAL IRWD BASE CONTRACT BID PRICE AND OWNER'S OPTION (SECTIONS A -S.) (ALTERNATE 1A AND ALTERNATE 1B)			\$2,313,740.00		\$2,344,000.50

\_\_\_\_\_ Dave Conley  
 \_\_\_\_\_ Mike Moran  
 \_\_\_\_\_ Jason Knudsen  
 \_\_\_\_\_ File with Bid Key Mail  
 \_\_\_\_\_ Mary O'Hara - Cost Matrix

PRE-BID MEETING DATE: June 20, 2013  
 BID OPENING DATE: August 13, 2013  
 WITNESSED BY: Ted Marchand  
 Mike Moran

EXCLUDED FROM THE BID:  
 NO SHOW AT PRESET:  
 CANNOT SUBMIT:

**BID SUMMARY**  
**PROGRAM 6 - TECHNOLOGY DRIVE EXTENSION PROJECTS**  
**ASSESSMENT DISTRICT, NON ASSESSMENT DISTRICT, IRWD CAPITAL AND NON CAPITAL IMPROVEMENTS**  
**ALL PRELIMING WORK**  
**BID PACKAGE: 000027**  
**TASK CODE: LS-02M.EC.01.001**

ENGINEER'S OFFICE	IRWD 3rd Bid	IRWD Lowest Bid	IRWD 2nd Bid	IRWD 4th Bid
RFP	LOW BIDDER HILLCREST	2ND BIDDER SUKUT	3RD BIDDER SANTA ANA CREEK	4TH BIDDER KEC

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
<b>IRVINE RANCH WATER DISTRICT (CAPITAL SECTION M-O)</b>													
<b>M. GENERAL</b>													
1	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE FOR SECTIONS M-O)	1	LS	\$56,500.00	\$56,500.00	\$56,000.00	\$56,000.00	\$40,000.00	\$40,000.00	\$21,630.00	\$21,630.00	\$61,867.50	\$61,867.50
2	PAYMENT AND PERFORMANCE BONDS (SECTIONS M-O)	1	LS	\$75,000.00	\$75,000.00	\$34,000.00	\$34,000.00	\$17,000.00	\$17,000.00	\$21,897.00	\$21,897.00	\$32,000.00	\$32,000.00
3	DEVELOP CONSTRUCTION WATER (SECTIONS M-O)	1	LS	\$25,000.00	\$25,000.00	\$25,000.00	\$25,000.00	\$12,000.00	\$12,000.00	\$14,940.00	\$14,940.00	\$2,700.00	\$2,700.00
4	TRAFFIC CONTROL (SECTIONS M-O)	1	LS	\$80,000.00	\$80,000.00	\$125,000.00	\$125,000.00	\$89,000.00	\$89,000.00	\$72,362.00	\$72,362.00	\$85,000.00	\$85,000.00
5	PRESSURE TESTING	1	LS	\$50,000.00	\$50,000.00	\$14,000.00	\$14,000.00	\$36,000.00	\$36,000.00	\$50,500.00	\$50,500.00	\$13,500.00	\$13,500.00
6	RAILROAD FLAGMAN	15	DAY	\$1,200.00	\$18,000.00	\$1,400.00	\$21,000.00	\$1,200.00	\$18,000.00	\$1,360.00	\$20,400.00	\$1,650.00	\$24,750.00
<b>N. INSTALL 30" RECYCLED WATER PIPELINE</b>													
7	INSTALL 24" CML&C WELDED STEEL PIPE, MINIMUM STL CYL THK 0.1345"	5770	LF	\$300.00	\$1,731,000.00	\$300.00	\$1,731,000.00	\$190.00	\$1,096,300.00	\$226.00	\$1,321,330.00	\$448.00	\$2,584,980.00
8	INSTALL 42" STEEL CASING (JACK AND BORE), 0.625" MINIMUM THK	323	LF	\$1,100.00	\$355,300.00	\$1,295.00	\$418,285.00	\$1,050.00	\$339,150.00	\$1,190.00	\$389,370.00	\$1,350.00	\$436,050.00
9	INSTALL 42" STEEL CASING (OPEN CUT), 0.5" MINIMUM WALL THK	40	LF	\$650.00	\$26,000.00	\$440.00	\$17,600.00	\$350.00	\$14,000.00	\$48,200.00	\$500.00	\$20,000.00	
10	INSTALL 24" FLANGED BUTTERFLY VALVE CL-150	6	EA	\$18,100.00	\$108,600.00	\$19,800.00	\$118,800.00	\$17,000.00	\$102,000.00	\$14,740.00	\$88,440.00	\$25,750.00	\$154,500.00
11	INSTALL 6" BLOWOFF ASSEMBLY	4	EA	\$12,000.00	\$48,000.00	\$26,950.00	\$107,800.00	\$20,000.00	\$80,000.00	\$10,200.00	\$40,800.00	\$27,000.00	\$108,000.00
12	INSTALL 6" COMBINATION AIR VALVE ASSEMBLY	0	EA	\$17,000.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	INSTALL 2" COMBINATION AIR VALVE ASSEMBLY	6	EA	\$4,100.00	\$24,600.00	\$4,600.00	\$27,600.00	\$3,600.00	\$21,600.00	\$3,762.00	\$22,572.00	\$3,400.00	\$20,400.00
14	INSTALL 6" SEWER LATERAL	4	EA	\$7,500.00	\$30,000.00	\$3,900.00	\$15,600.00	\$2,800.00	\$11,200.00	\$26.00	\$104.00	\$11,000.00	\$44,000.00
<b>O1 OTHER ITEMS</b>													
15	PAVEMENT REMOVAL	17,000	SF	\$4.00	\$68,000.00	\$5.30	\$90,300.00	\$1.00	\$17,000.00	\$3.65	\$62,050.00	\$5.40	\$91,800.00
16	4" HMA OVER 5' AS	17,000	SF	\$9.00	\$153,000.00	\$3.34	\$56,780.00	\$3.60	\$61,200.00	\$5.62	\$95,540.00	\$13.70	\$232,500.00
17	SHEETING, SHORING, AND BRACING OF TRENCHES AND UNDERGROUND UTILITIES	1	LS	\$25,000.00	\$25,000.00	\$22,000.00	\$22,000.00	\$79,000.00	\$79,000.00	\$262,300.00	\$262,300.00	\$25,000.00	\$25,000.00
18	ALL ELSE REQUIRED TO COMPLETE IRVINE RANCH WATER DISTRICT (CAPITAL) IMPROVEMENTS AS SHOWN ON PLANS, SPECIFICATIONS & AGENCY STANDARD, BUT NOT SHOWN ON SCHEDULE OF VALUES	1	LS	\$10,000.00	\$10,000.00	\$40,000.00	\$40,000.00	\$140,000.00	\$140,000.00	\$0.00	\$0.00	\$10,000.00	\$10,000.00
<b>TOTAL IRWD CAPITAL IMPROVEMENTS (SECTION M-O.)</b>					<b>\$2,679,200.00</b>		<b>\$2,955,565.00</b>		<b>\$2,228,650.00</b>		<b>\$2,538,659.00</b>		<b>\$3,950,627.50</b>

November 23, 2015

Prepared by: K. Lew

Submitted by: K. Burton 

Approved by: Paul Cook 

## CONSENT CALENDAR

### 400 AND 450 SPECTRUM CENTER DRIVE CAPITAL SEWER RELOCATION

#### SUMMARY:

Irvine Community Development Company (ICDC) is proceeding with construction of a new office tower at 400 and 450 Spectrum Center Drive. IRWD owns a 30-inch diameter trunk sewer crossing through the site that is required to be relocated to avoid conflict with the proposed office building and parking structure. As part of ICDC's site construction, they will abandon the existing trunk sewer and construct a new 36-inch diameter trunk sewer through the site. Staff requests that the Board:

- Authorize the addition of Project 21304 (6479) to the FY 2015-16 Capital Budget in the amount of \$596,200;
- Authorize the General Manager to execute a Supplemental Reimbursement Agreement with ICDC; and
- Authorize the General Manager to accept ICDC's construction contract with KEC Engineering in the amount of \$1,490,825 for the 400 and 450 Spectrum Center Drive Sewer Relocation Project.

#### BACKGROUND:

The Project consists of the abandonment of approximately 650 feet of 30-inch diameter sewer and installation of 650 feet of a 36-inch diameter sewer across 400 and 450 Spectrum Center Drive commercial property. The project location map is shown as Exhibit "A". ICDC is responsible for the replacement cost of the existing 30-inch diameter pipeline. Staff recently performed a sewer hydraulic modeling analysis that recommended that this pipeline be upsized to 36-inch diameter to accommodate future anticipated flows. IRWD will be responsible for the upsizing cost from 30-inch to 36-inch diameter pipe. IRWD's portion of the cost was determined to be 24.6% of the total construction cost.

IRWD and ICDC have had a Reimbursement Agreement (RA) for design and construction of IRWD capital facilities in place since May 1997. Under this RA, a Supplemental Reimbursement Agreement (SRA) serves to define the improvements to be designed and constructed within a specific planning area as well as the estimated reimbursable costs. Staff requests approval of an SRA for the construction of the 400 and 450 Spectrum Center Drive Sewer Relocation. The SRA is shown as Exhibit "B".

ICDC retained Psomas to prepare the design plans and they received construction bids from four contractors. ICDC recommends awarding the construction contract to the lowest bidder, KEC Engineering, for a bid amount of \$1,490,825 as shown in Exhibit "C". IRWD's cost responsibility is \$366,742.95. In addition, ICDC received consultant proposals for geotechnical observation and testing, surveying, construction support services and field archeological/

paleontological monitoring. Staff has reviewed the consultant proposals and the construction bids and found the amounts to be acceptable. A summary of the Project costs is shown below.

	Total Cost	IRWD Portion (24.6%)	ICDC Portion (75.4%)
Construction (KEC Engineering)	\$1,490,825.00	\$366,742.95	\$1,124,082.05
Civil Engineering Services (Psomas)	\$ 17,400.00	\$ 4,280.40	\$ 13,119.60
Geotechnical Services (GMU)	\$ 35,275.00	\$ 8,677.65	\$ 26,597.35
Survey/Staking (Guida)	\$ 5,000.00	\$ 1,230.00	\$ 3,770.00
Field Archeo/Paleo Monitoring (LSA)	\$ 13,680.00	\$ 3,365.28	\$ 10,314.72
ICDC Administration Fee (1%)	\$ 3,667.43	\$ 3,667.43	\$ -0-
<b>Total</b>	<b>\$1,565,847.43</b>	<b>\$387,963.71</b>	<b>\$1,177,883.72</b>

**FISCAL IMPACTS:**

Project 21304 (6479) is not included in the FY 2015-16 Capital Budget. Staff requests that the project be added as shown in the table below.

Project No.	Current Budget	Addition <Reduction>	Total Budget
21304 (6479)	\$ -0-	\$596,200	\$596,200

**ENVIRONMENTAL COMPLIANCE:**

Activities such as executing reimbursement agreements is not subject to the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3), in that CEQA applies only to projects which have the potential for causing a significant effect on the environment.

Construction of the sewer relocation as a part of the 400 and 450 Spectrum Center Drive Project is subject to CEQA. As the lead agency, ICDC is responsible for CEQA compliance.

**COMMITTEE STATUS:**

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

**RECOMMENDATION:**

THAT THE BOARD AUTHORIZE THE ADDITION OF PROJECT 21304 (6479) TO THE FY 2015-16 CAPITAL BUDGET IN THE AMOUNT OF \$596,200; AUTHORIZE THE GENERAL MANAGER TO EXECUTE A SUPPLEMENTAL REIMBURSEMENT AGREEMENT WITH IRVINE COMMUNITY DEVELOPMENT COMPANY; AND AUTHORIZE THE GENERAL MANAGER TO ACCEPT IRVINE COMMUNITY DEVELOPMENT COMPANY’S CONSTRUCTION CONTRACT WITH KEC ENGINEERING IN THE AMOUNT OF \$1,490,825 FOR THE 400 AND 450 SPECTRUM CENTER DRIVE SEWER RELOCATION, PROJECT 21304 (6479).

LIST OF EXHIBITS:

- Exhibit "A" – Location Map
- Exhibit "B" – Supplemental Reimbursement Agreement
- Exhibit "C" – Bid Summary



# EXHIBIT "B"

Exhibit "A"  
to  
Reimbursement Agreement

## SUPPLEMENTAL REIMBURSEMENT AGREEMENT

BY AND BETWEEN

IRVINE RANCH WATER DISTRICT

AND

THE IRVINE COMPANY

This SUPPLEMENTAL REIMBURSEMENT AGREEMENT ("Agreement") is entered into as of this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between Irvine Ranch Water District, a California water district formed and existing pursuant to the California Water District Law of the state of California ("IRWD"), and The Irvine Company ("TIC"). All capitalized terms used herein and not otherwise defined shall have the meanings given such terms in the Reimbursement Agreement.

WHEREAS, IRWD and TIC have previously entered into that certain Reimbursement Agreement dated May 21, 1997 ("Reimbursement Agreement") respecting construction of Capital Facilities; and

WHEREAS, said Reimbursement Agreement made reference to the fact that certain supplemental agreements would be entered into by the parties regarding construction of Capital Facilities and reimbursement therefor consistent with the provisions of said Reimbursement Agreement; and

WHEREAS, the parties now wish to enter this Agreement regarding the construction of Capital Facilities described below, subject to all of the terms of the Reimbursement Agreement, except as provided herein.

NOW, THEREFORE, the parties hereto, in consideration of the mutual promises and covenants hereinafter set forth, do agree as follows:

1. Except as provided herein, the parties hereby incorporate by reference all of the terms and conditions of the Reimbursement Agreement into this Agreement.

2. The name of the Project to which this Agreement pertains is:  
400 and 450 Spectrum Center Drive 30-inch Sewer Relocation.  
The Project is depicted on Exhibit 1 attached to this Agreement.

3. The Capital Facilities to be constructed pursuant to this Agreement are as follows: [describe type, diameter, approximate linear footage, etc; include any detailed drawing as Exhibit 3 if needed]

Approximately 650 linear feet of 36-inch diameter trunk sewer of which TIC is responsible for 75.4% of the cost and IRWD is responsible for 24.6% of the cost. The Capital Facilities  do /  do not [check appropriate box] include any facilities that are a part of the Michelson/ Los Alisos Reclamation Plants Upgrades and Distribution System Expansion Project identified in the Agreement No. 61719 2003 LRP Local Resources Program Agreement, entered into as of June 13, 2005, by and between IRWD and the Metropolitan Water District of Southern California (the "MWD Local Project").

4. The total costs for the Capital Facilities shall include, but not be limited to, the actual costs for construction, surveying, compaction testing, permits, construction bonds, legal fees and an administration fee equal to one percent (1%) of the actual cost of construction (all such actual costs are collectively referred to as the "Costs"). The estimated amount of the Costs is \$1,400,000.

5. The following special terms apply to the construction of the Capital Facilities under this Agreement and supersede the provisions of the original Reimbursement Agreement referenced above: "The "Costs" shall also include consultant design and consultant construction administration assistance of which TIC is responsible for 75.4% of the cost and IRWD is responsible for 24.6% of the cost.

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6. In accordance with Section 10 of the Reimbursement Agreement, TIC is executing concurrently herewith an Assignment Agreement in the form of Exhibit 2, to be effective upon the Effective Date specified in the Assignment Agreement.

7. If the box in Section 3 above has been checked to indicate that any of the Capital Facilities are a part of the MWD Local Project, then TIC shall include the following language in its agreements with any consultant or contractor retained by TIC to work on the Capital Facilities:

"[Contractor / Consultant] agrees at its sole cost and expense to protect, indemnify, defend, and hold harmless Metropolitan Water District of Southern California, Municipal Water District of Orange County, and each of their respective Boards of Directors, officers, representatives, agents and employees from and against any and all claims and liability of any kind (including, but not limited to, any claims or liability for injury or death to any person, damage to property, natural resources or the environment, or water quality problems) that arise out of or relate to any act or omission of [Contractor / Consultant] in the performance of this agreement. Such indemnity shall include all damages and losses related to any claim made, whether or not a court action is filed, and shall include attorney fees, administrative and overhead costs, engineering and consulting fees and all other costs related to or arising out of such claim of liability."

IN WITNESS WHEREOF, the parties have entered this Agreement as of the date set forth above.

IRVINE RANCH WATER DISTRICT

THE IRVINE COMPANY

By: \_\_\_\_\_  
General Manager

By: \_\_\_\_\_

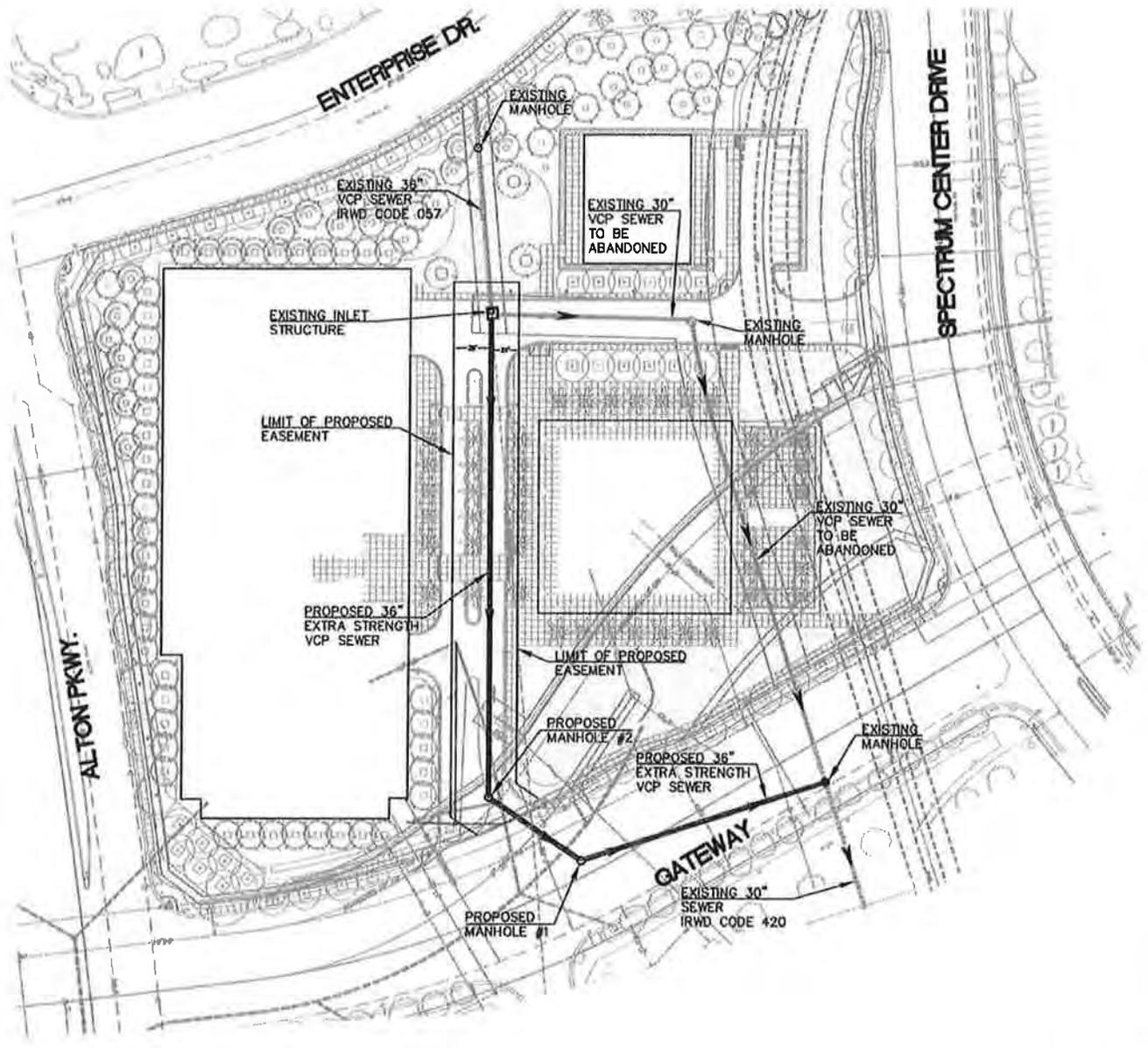
Title: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

**LEGEND**

	SANITARY SEWER LINE
	EX SANITARY SEWER LINE
	EX PIPE TO BE DEMOLISHED
	EX STORM DRAIN PIPE
	EX DOMESTIC WATER LINE
	EX FIRE WATER LINE
	EX RECLAIMED WATER LINE
	EX GAS LINE
	EX ELECTRIC LINE
	EX CABLE TV LINE
	EX TELECOMMUNICATION LINE
	PROPERTY LINE
	PROPOSED EASEMENT LIMIT



GRAPHIC SCALE  
 Note: For reduced sized prints, original scale is in inches  
 SCALE: 1"=120'

**400 SPECTRUM CENTER DRIVE  
 30-INCH SEWER RELOCATION**

**EXHIBIT 1**

**PSOMAS**

DATE: 10/01/15    REVISED ON: 11/03/15  
 JOB No: 2PEI010300

10/21/2015 11:49:29 AM - 4/20/2015 11:49:29 AM - 4/20/2015 11:49:29 AM - 4/20/2015 11:49:29 AM

Exhibit "2"  
to  
Supplemental Reimbursement Agreement

Assignment Agreement

This ASSIGNMENT AGREEMENT is made as of \_\_\_\_\_, 20\_\_\_\_, by and between THE IRVINE COMPANY, a corporation, dba Irvine Industrial Company ("Assignor"), to IRVINE RANCH WATER DISTRICT, a California water district formed and existing pursuant to the California Water District Law of the State of California ("Assignee") based upon the following recitals:

A. Assignor has previously (or will, prior to the Effective Date hereof, have) entered into that certain Construction Contract relating to the Project and Capital Facilities identified in Schedule A hereto (the "Construction Contract").

B. Assignee desires to acquire (I) Assignor's right, title and interest in and to the Capital Facilities constructed under the Construction Contract, and (II) the warranty rights of Assignor as to the Capital Facilities under the Construction Contract, and Assignor desires to assign such rights to Assignee.

NOW, THEREFORE, in consideration of the foregoing, the covenants and agreements contained herein and other valuable consideration, receipt of which is hereby acknowledged, the parties hereto agree as follows:

1. ASSIGNMENT. Effective upon the date specified in Section 2 hereof (the "Effective Date"), Assignor assigns and transfers to Assignee all of Assignor's right, title, claim and interest in and to (a) the Capital Facilities constructed pursuant to the Construction Contract, and (b) the warranties and guarantees of contractor as to the Capital Facilities constructed pursuant to the Construction Contract. This Assignment is made by Assignor pursuant to the provisions of Section 10, entitled "Assignment of Interest", contained in that certain Reimbursement Agreement between Assignor and Assignee dated as of May 21, 1997.

2. EFFECTIVE DATE. The Effective Date shall be the date of the filing of the Notice of Completion for the Construction Contract unless a different date is inserted in the following space: \_\_\_\_\_

3. TRANSFER OF DOCUMENTATION. On or prior to the Effective Date, Assignor shall provide Assignee with a copy of the Construction Contract.

IN WITNESS WHEREOF, Assignor has executed this Assignment Agreement as of the date first above written.

ASSIGNOR:

THE IRVINE COMPANY, a corporation,  
dba Irvine Industrial Company

By: \_\_\_\_\_

Title: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Schedule A  
to  
Assignment Agreement

This Schedule A to Assignment Agreement relates to the assignment of certain matters pursuant to the Supplemental Reimbursement Agreement between Assignor and Assignee dated \_\_\_\_\_ (“Supplemental Reimbursement Agreement”).

Agreement: Insert name of Project from Section 2 of Supplemental Reimbursement Agreement: 400 and 450 Spectrum Center Drive 30-inch Sewer Relocation  
\_\_\_\_\_  
\_\_\_\_\_

Insert description of Capital Facilities from Section 3 of Supplemental Reimbursement Agreement: Replacement of an existing 30-inch diameter trunk sewer with approximately 650 linear feet of 36-inch diameter trunk sewer.  
\_\_\_\_\_  
\_\_\_\_\_

Contractor's Name: \_\_\_\_\_

License No. \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Contact Person: \_\_\_\_\_

**Exhibits to Supplemental Reimbursement Agreement:**

**Exhibit 1 - Depiction of Project**

**Exhibit 2 - Assignment Agreement**

**Exhibit 3 - Description of Capital Facilities (not used)**

# EXHIBIT "C"

DocuSign Envelope ID: D8EC86C4-0874-4C5E-B1EF-B26BE080157C

\_\_\_\_\_ Dave Corley  
 \_\_\_\_\_ Mike Moser  
 \_\_\_\_\_ Jason Krukow  
 \_\_\_\_\_ Ric with Bid Key Map  
 \_\_\_\_\_ Mary Oshiro - Cost Matrix

PRE-BID MEETING DATE: June 11, 2015  
 BID OPENING DATE: July 3, 2015  
 WITNESSED BY: Tim Berubeau  
 Erica Maroneaux

DECLINED PRIOR TO PRE-BID: Irvine Payment Co. Inc.  
 NO SHOW AT PRE-BID:  
 DID NOT SUBMIT:

**BID SUMMARY**  
**SPECTRUM OFFICE - SEWER RELOCATION**  
 400456 SPECTRUM CENTER DRIVE  
 CONTRACT "B"  
 BID PACKAGE: B02232  
 TASK PCRD: LO-8040.ST.01.en01

ENGINEER'S ESTIMATE PSCOMAS	LOW BIDDER KEC	2ND BIDDER LEATHERWOOD	3RD BIDDER SHOFFETT	4TH BIDDER FYDAQ
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**CHECK LIST**  
Required items to be included in bid package:

1. Signed Addendum Nos. 1-4
2. Corporate Seal (if applicable)
3. Correct Signatures (Page V-3)
4. Bid Totals Correctly
5. List of SubContractors
6. Equipment/Material Source Information
7. Contractor Plans/Reviewed
8. 10% Bid Bond
9. Construction Schedule
10. Non-Conflicting Certificates
11. Contractor Prequalified

Comments	Comments	Comments	Comments	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	NOT INCLUDED	NOT INCLUDED	NOT INCLUDED	NOT INCLUDED INCORRECT SIG

CODING	ITEM DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
<b>BASE CONTRACT - CONSTRUCTION SCHEDULE OPTION #1 &amp; MAINTAINING TRAFFIC OPEN ON GATEWAY (SECTIONS A-D)</b>											
<b>A. GENERAL</b>											
1	MOBILIZATION (NOT TO EXCEED 2% OF CONTRACT PRICE)	1	LS	\$8,000.00	\$8,000.00	\$30,000.00	\$30,000.00	\$35,000.00	\$35,000.00	\$40,000.00	\$40,000.00
2	PAYMENT AND PERFORMANCE BONDS	1	LS	\$8,000.00	\$8,000.00	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00	\$30,000.00	\$30,000.00
3	DEVELOP CONSTRUCTION WATER	1	LS	\$3,000.00	\$3,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00	\$2,500.00	\$2,500.00
4	TRAFFIC AND PEDESTRIAN CONTROL	1	LS	\$15,000.00	\$15,000.00	\$20,000.00	\$20,000.00	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00
5	TEMPORARY CONSTRUCTION FENCE	1,200	LF	\$7.00	\$8,400.00	\$8.00	\$9,600.00	\$8.00	\$9,600.00	\$21.00	\$25,200.00
6	TEMPORARY CONSTRUCTION GATE	1	EA	\$200.00	\$200.00	\$700.00	\$700.00	\$100.00	\$100.00	\$1,250.00	\$1,250.00
7	INTERIM EROSION AND SEDIMENT CONTROL	1	LS	\$5,000.00	\$5,000.00	\$9,800.00	\$9,800.00	\$5,000.00	\$5,000.00	\$1,600.00	\$1,600.00
<b>B. DEMOLITION</b>											
8	CUT AND CAP 30" VCP SS 5' FROM MH	4	EA	\$1,500.00	\$6,000.00	\$4,000.00	\$16,000.00	\$14,400.00	\$57,600.00	\$3,800.00	\$15,520.00
9	REMOVE, DISCARD, BACKFILL AND COMPACT EX SS MH	1	EA	\$7,500.00	\$7,500.00	\$6,700.00	\$6,700.00	\$12,800.00	\$12,800.00	\$5,500.00	\$5,500.00
10	2 SACK GULLRY FILL EX 30" VCP SS	1	LS	\$30,000.00	\$30,000.00	\$22,800.00	\$22,800.00	\$16,100.00	\$16,100.00	\$16,575.00	\$16,575.00
11	REMOVE PORTION OF 96" VCP SS IN CONFLICT WITH PROPOSED LINE	90	LF	\$20.00	\$1,800.00	\$72.00	\$6,480.00	\$100.00	\$9,000.00	\$225.00	\$20,250.00
12	REMOVE, DISCARD, BACKFILL, AND COMPACT EX RCP SD	1	LS	\$13,800.00	\$13,800.00	\$7,000.00	\$7,000.00	\$12,800.00	\$12,800.00	\$10,500.00	\$10,500.00
13	REMOVE, DISCARD, BACKFILL AND COMPACT EX CB	1	EA	\$2,000.00	\$2,000.00	\$3,800.00	\$3,800.00	\$4,650.00	\$4,650.00	\$2,800.00	\$2,800.00
14	REMOVE, DISCARD, BACKFILL AND COMPACT EX SD MH	1	EA	\$4,000.00	\$4,000.00	\$3,600.00	\$3,600.00	\$3,700.00	\$3,700.00	\$3,500.00	\$3,500.00
15	REMOVE AND DISCARD EXISTING ONSITE SURFACE FEATURES WITHIN SAWCUT LIMITS	1	LS	\$15,000.00	\$15,000.00	\$52,300.00	\$52,300.00	\$87,000.00	\$87,000.00	\$8,800.00	\$8,800.00
16	REMOVE, DISCARD, BACKFILL AND COMPACT EXISTING ELECTRICAL VAULT	1	EA	\$9,000.00	\$9,000.00	\$7,100.00	\$7,100.00	\$6,500.00	\$6,500.00	\$3,500.00	\$3,500.00
17	REMOVE, DISCARD, BACKFILL AND COMPACT EXISTING ELECTRICAL CONDUITS	1	LS	\$1,680.00	\$1,680.00	\$9,100.00	\$9,100.00	\$2,600.00	\$2,600.00	\$3,500.00	\$3,500.00
<b>C. PIPING AND STRUCTURES</b>											
18	CONTRACT 36" PVC C-905, SDR-18 SEWER WITHIN GATEWAY	255	LF	\$880.00	\$224,400.00	\$1,700.00	\$448,000.00	\$3,200.00	\$825,600.00	\$2,800.00	\$728,000.00
19	CONTRACT 36" PVC, C-905, SDR-18 SEWER ONSITE	395	LF	\$880.00	\$347,600.00	\$450.00	\$177,750.00	\$1,720.00	\$681,900.00	\$2,575.00	\$1,017,125.00
20	CONSTRUCT 72" DIA MANHOLE PER IRWD STD DWG. S-1	2	EA	\$25,000.00	\$50,000.00	\$27,200.00	\$54,400.00	\$21,200.00	\$42,400.00	\$21,000.00	\$42,000.00
21	MODIFY EX 72" MANHOLE - CORE DRILL INTO MH, RE-CHANNEL, AND CONNECT	1	EA	\$15,000.00	\$15,000.00	\$14,700.00	\$14,700.00	\$21,750.00	\$21,750.00	\$7,800.00	\$7,800.00
22	MODIFY EX SEWER INLET STRUCTURE/MH AND REPAIR MANHOLE WALL (REPAIR T-LOCK W/ SPRAY-ON EPOXY COATING PER IRWD SPECIFICATIONS)	1	EA	\$15,000.00	\$15,000.00	\$7,100.00	\$7,100.00	\$15,900.00	\$15,900.00	\$8,300.00	\$8,300.00
<b>D. MISCELLANEOUS ITEMS</b>											
23	SAWCUT AND REPAIR EXISTING PAVING PER CITY OF IRVINE STD PLAN 223 ALTERNATIVE B	275	LF	\$50.00	\$13,750.00	\$225.00	\$61,875.00	\$200.00	\$55,000.00	\$185.00	\$50,875.00
24	TRENCH SHORING	1	LS	\$75,000.00	\$75,000.00	\$477,000.00	\$477,000.00	\$34,300.00	\$34,300.00	\$17,500.00	\$17,500.00
25	DESIGN & PROCESS TEMPORARY BYPASS PLAN THROUGH APPROVAL	1	LS	\$5,000.00	\$5,000.00	\$3,000.00	\$3,000.00	\$1,500.00	\$1,500.00	\$6,000.00	\$6,000.00
26	TEMPORARY SEWER BYPASS	1	LS	\$38,000.00	\$38,000.00	\$29,500.00	\$29,500.00	\$42,350.00	\$42,350.00	\$4,500.00	\$4,500.00
27	TESTING OF SEWER SYSTEM	1	LS	\$5,000.00	\$5,000.00	\$8,000.00	\$8,000.00	\$14,900.00	\$14,900.00	\$5,500.00	\$5,500.00
<b>TOTAL BASE CONTRACT BID PRICE (SECTIONS II)</b>											
<b>PREVAILING WAGE SURCHARGE (12%)</b>											
				<b>\$111,300.00</b>		<b>INCLUDED ABOVE</b>		<b>INCLUDED ABOVE</b>		<b>INCLUDED ABOVE</b>	

**BID SUMMARY**  
**SPECTRUM OFFICE - SEWER RELOCATION**  
**460488 SPECTRUM CENTER DRIVE**  
**CONTRACT "B"**  
**BID PACKAGE: 800232**  
**TASK PCAD: LD-5040.ST.01.en01**

OWNER'S ESTIMATE PSOMAS	LOW BIDDER KEC	2ND BIDDER LEATHERWOOD	3RD BIDDER SHOFEITT	4TH BIDDER FYDAG
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**OWNER OPTIONS - OWNER MAY OR MAY NOT INCLUDE THE FOLLOWING ITEMS IN THE BASE CONTRACT**

- 28. PARKING LOT LIGHTING RETROFIT (SOLE SOURCE POWER PLUS)
- 29. SLURRY AND RESTRIPE STREET
- 30. TEMPORARY STORM DRAIN IMPROVEMENTS TO MAINTAIN FLOW

	OWNER'S ESTIMATE PSOMAS	LOW BIDDER KEC	2ND BIDDER LEATHERWOOD	3RD BIDDER SHOFEITT	4TH BIDDER FYDAG
1 LS	\$19,000.00	\$19,000.00	\$19,000.00	\$19,000.00	\$19,000.00
41,000 SF	\$1.00	\$41,000.00	\$0.80	\$32,800.00	\$0.70
1 LS	\$10,000.00	\$10,000.00	\$25,000.00	\$25,000.00	\$7,500.00
<b>TOTAL OWNER'S OPTIONS BID PRICE (SECTION II)</b>	<b>\$70,000.00</b>	<b>\$70,000.00</b>	<b>\$72,900.00</b>	<b>\$72,900.00</b>	<b>\$72,900.00</b>
<b>PREVAILING WAGE SURCHARGE (12%)</b>	<b>\$8,400.00</b>	<b>INCLUDED ABOVE</b>	<b>INCLUDED ABOVE</b>	<b>INCLUDED ABOVE</b>	<b>INCLUDED ABOVE</b>
<b>GRAND TOTAL BID PRICE (SECTIONS I &amp; II)</b>	<b>\$97,730.00</b>	<b>\$1,590,703.00</b>	<b>\$1,875,600.00</b>	<b>\$2,134,425.00</b>	<b>\$2,544,125.00</b>

**III. MISCELLANEOUS OWNER'S OPTION CREDITS**

- 31. CREDIT TO ENTIRE CONTRACT IF GATEWAY IS CLOSED BETWEEN OFFICE DRIVEWAY & SPECTRUM CENTER DRIVE FOR MILESTONE 2 WORK
- 32. CREDIT TO ENTIRE CONTRACT TO CONSTRUCT PER MILESTONE SCHEDULE OPTION #2

	OWNER'S ESTIMATE PSOMAS	LOW BIDDER KEC	2ND BIDDER LEATHERWOOD	3RD BIDDER SHOFEITT	4TH BIDDER FYDAG
1 LS	\$0.00	(\$35,000.00)	(\$35,000.00)	(\$125,000.00)	(\$125,000.00)
1 LS	\$0.00	(\$20,000.00)	(\$20,000.00)	(\$15,000.00)	(\$15,000.00)
<b>TOTAL OWNER'S OPTIONS BID PRICE (SECTION III)</b>	<b>\$0.00</b>	<b>(\$55,000.00)</b>	<b>(\$55,000.00)</b>	<b>(\$140,000.00)</b>	<b>(\$140,000.00)</b>

**IV. MISCELLANEOUS OWNER'S OPTION CREDITS - POST BID OPENING**

- 33. CREDIT TO LINE ITEM 18 FOR CITY ALLOWANCE OF ALT B BACKFILL\*
- 34. CREDIT TO LINE ITEM 19 FOR CITY ALLOWANCE OF ALT B BACKFILL\*

	OWNER'S ESTIMATE PSOMAS	LOW BIDDER KEC	2ND BIDDER LEATHERWOOD	3RD BIDDER SHOFEITT	4TH BIDDER FYDAG
255 LF	\$ -	\$ (176.00)	\$ (44,880.00)	\$ (390.00)	\$ (99,450.00)
309 LF	\$ -	\$ -	\$ -	\$ -	\$ (278.50)
<b>TOTAL OWNER OPTION BID PRICE (SECTIONS IV)</b>	<b>\$ -</b>	<b>\$ (176.00)</b>	<b>\$ (44,880.00)</b>	<b>\$ (390.00)</b>	<b>\$ (127,478.50)</b>
<b>GRAND TOTAL BID PRICE (SECTIONS I-IV)</b>	<b>\$ 1,117,430.00</b>	<b>\$ 1,490,827.00</b>	<b>\$ 1,830,720.00</b>	<b>\$ 2,006,946.50</b>	<b>\$ 2,416,646.50</b>

CONTRACTOR'S BID REQUIRES GATEWAY TO BE CLOSED IF USING ALT B BACKFILL (CIRCLE ONE)

\* May still require some slurry backfill (example: at existing utility crossings). Contractor to include costs for any additional slurry backfill that is required in their credit price such that the credit prices is net credit amount.

YES NO YES YES YES

\*Psomas added a 12% surcharge in the amount of \$113,700.00 which is not included in the total above

November 23, 2015

Prepared by: J. Smyth/M. Cortez

Submitted by: K. Burton *KLB*

Approved by: Paul Cook *PC*

## CONSENT CALENDAR

### THREE-YEAR DAM MONITORING AND SURVEILLANCE CONSULTANT SELECTION

#### SUMMARY:

The District maintains a dam monitoring and surveillance program where operational data and performance reports are submitted annually to the California Division of Safety of Dams (DSOD) for each District-owned dam. Geotechnical engineering firms are utilized to prepare the DSOD reports. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Genterra Consultants, Inc. in the amount of \$144,900 for three years of dam monitoring and surveillance services.

#### BACKGROUND:

The DSOD oversees dam safety in California. In accordance with DSOD requirements, as provided for in the statutes and regulations pertaining to supervision of dams and reservoirs, the District maintains a Dam Monitoring and Surveillance program. Operational data and performance reports are submitted annually to the DSOD for the five District-owned dams: Santiago Creek, San Joaquin, Rattlesnake Canyon, Sand Canyon, and Syphon Canyon. Geotechnical engineering firms are utilized to ensure the most accurate interpretation of the operational data and to prepare the DSOD report verifying the stability of each dam. The District's current three-year contract with AECOM (formerly URS) expires on December 31, 2015.

#### Consultant Selection:

Staff requested proposals from four geotechnical engineering firms to provide dam monitoring and surveillance services for the five District-owned dams for a period of three calendar years from 2016 through 2018. Two geotechnical firms, AMEC Foster Wheeler and Kleinfelder, declined to submit proposals citing current workload and no locally-trained staff. Two geotechnical firms, AECOM and Genterra, submitted proposals. Staff reviewed and ranked the proposals based on the consultants' teams, project approach and relevant experience. As co-owner of Santiago Creek Dam, Serrano Water District also provided input into the consultant selection process and it agrees with the recommended consultant. The results of the consultant evaluation process are shown in the Evaluation Matrix which is attached as Exhibit "A". Staff recommends that a three-year contract for dam monitoring and surveillance services for the five dams be awarded to Genterra. A copy of Genterra's proposal is attached as Exhibit "B". Genterra previously provided this service for the District from 1998 to 2006 and 2010 to 2012 with good performance.

FISCAL IMPACTS:

Dam Monitoring and Surveillance is included in the Operating Budget approved annually by the Board.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH GENTERRA CONSULTANTS, INC. IN THE AMOUNT OF \$144,990 FOR THREE YEARS OF DAM MONITORING AND SURVEILLANCE SERVICES.

LIST OF EXHIBITS:

Exhibit "A" – Consultant Selection Evaluation Matrix  
Exhibit "B" – Genterra Consultants, Inc.'s Proposal

**EXHIBIT "A"**  
**DAM MONITORING CONSULTANT SELECTION MATRIX**

Item	Description	Weights	AECOM	GENTERRA CONSULTANTS
<b>A</b>	<b>TECHNICAL APPROACH</b>	<b>50%</b>		
1	Project Understanding	40%	2	1
2	Scope of Work/Responsiveness to RFP	30%	2	1
3	Proposal Approach	30%	1	2
	<u>Weighted Score (Technical Approach)</u>		1.7	1.3
<b>B</b>	<b>QUALIFICATION AND EXPERIENCE</b>	<b>50%</b>		
1	Project Manager	35%	2	1
2	Project Engineer /Team	35%	2	1
3	Similar Projects	30%	1	2
	<u>Weighted Score (Experience)</u>		1.7	1.3
	<b>COMBINED WEIGHTED SCORE</b>		<b>1.7</b>	<b>1.3</b>
<b>C</b>	<b>SCOPE OF WORK</b>			
	TASK 1.			
	Data Review and Analysis			
	Task Hours		270	240
	Cost		\$ 30,936	\$ 48,600
	TASK 2.			
	Field Inspections			
	Task Hours		366	144
	Cost		\$ 47,292	\$ 26,640
	TASK 3.			
	Reports			
	Task Hours		477	285
	Cost		\$ 64,407	\$ 53,100
	TASK 4.			
	As-needed Engineering Assistance			
	Task Hours		90	90
	Cost		\$ 12,439	\$ 16,650
<b>D</b>	<b>OTHER</b>			
	Joint Venture		None	None
	DIR Registration		Yes	Yes
	Insurance (Professional & General Liability)		Yes	Yes
	Exceptions taken to IRWD Sts. Contract		None	None
	<b>Total Hours</b>		<b>1,203</b>	<b>759</b>
	<b>TOTAL FEE AMOUNT</b>		<b>\$ 155,074</b>	<b>\$ 144,990</b>
	<b>Ranking of consultants</b>		<b>2</b>	<b>1</b>
	FORCED RANKINGS:			
	1 - Excellent			
	2 - Very Good			

# EXHIBIT "B"

## Proposal for Three-Year Monitoring and Surveillance Program for Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for Calendar Years 2016 Through 2018



Prepared By:  
SERRA Consultants, Inc.  
10725 Barranca Pkwy., Bldg L  
Irvine, CA 92618



Submitted To:  
  
Irvine Ranch Water District  
3512 Michelson Drive  
Irvine, CA 92612  
  
October 14, 2015



**GENTERRA**  
**CONSULTANTS, INC.**  
ENGINEERING & GEOTECHNICAL SERVICES

**Proposal for Three-Year Monitoring & Surveillance Program for  
Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon,  
and Santiago Creek (Irvine Lake) Dams for  
Calendar Years 2016 Through 2018**

**Submitted To:**

**Irvine Ranch Water District  
3512 Michelson Drive  
Irvine, California 92612**

**Submitted By:**

**GENTERRA CONSULTANTS, INC.  
15375 Barranca Pkwy., Bldg. L  
Irvine, California 92618**

**October 14, 2015**



October 14, 2015

P2203

Irvine Ranch Water District  
3512 Michelson Drive  
Irvine, CA 92612-1799

Attention: Mr. Jeffrey Smyth, P.E.

Subject: Proposal for Three-Year Monitoring and Surveillance Program for Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for Calendar Years 2016 Through 2018

Dear Mr. Smyth:

In response to the Irvine Ranch Water District's (District) Request For Proposal (RFP), GENTERRA Consultants, Inc. (GENTERRA) is pleased to submit this proposal for Monitoring and Surveillance for Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek Dams for the three-year period from January 1, 2016 to December 31, 2018. Four copies of this proposal, along with one copy of the separately sealed cost estimate sheets, are being submitted the Purchasing Department per the instructions set forth in an email message from Jeffrey Smyth on October 6, 2015.

GENTERRA is very interested in providing our services for the District's dams. We are especially qualified for these services for the following reasons:

1. This is our main area of expertise. More than 85% of our projects since the firm was founded in 1995 have been related to dams and reservoirs. Our proposed project personnel have worked on hundreds of dams in their careers.
2. GENTERRA has provided dam safety monitoring and surveillance services to the District for many years in the past, and we are very familiar with the design and condition of the dams. This past experience and familiarity will enable effective interaction with the District and the State Division of Safety of Dams (DSOD), and will apply a high level of expertise and experience needed to credibly identify potential problems and their resolution before they develop into major problems at the dams.
3. GENTERRA has a good approval track record on work reviewed by the DSOD.

4. We are a local firm within several miles of each dam, and will be available on an on-call 24/7 basis in the event of emergencies or to answer questions.
5. Joseph J. Kulikowski, Douglas A. Harriman and Nicholas M. Josten of GENTERRA presented a Dam Safety Seminar to the District and other attendees on June 20, 2012, in which we used examples of conditions to be observed and data to be monitored at the District's dams.

We appreciate this opportunity to provide the District with our services. Please contact me at (949) 753-8766 or at [joekul@genterra.com](mailto:joekul@genterra.com) with any questions or if you require additional information.

Sincerely,  
GENTERRA CONSULTANTS, INC.



Joseph J. Kulikowski, P.E., G.E.  
President & Senior Principal Engineer

**Enclosures:**

- Proposal
- Company Dam and Reservoir Project Experience List
- Resumes
- Certificate of Liability Insurance
- Cost Estimate (In Separate Sealed Envelope)

**Proposal for Three-Year Monitoring & Surveillance Program for Rattlesnake Canyon,  
Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for  
Calendar Years 2016 Through 2018**

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**Proposal for Three-Year Monitoring & Surveillance Program for Rattlesnake Canyon,  
Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for  
Calendar Years 2016 Through 2018**

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**1. SCOPE**

In response to the Request for Proposal (RFP) from the Irvine Ranch Water District (District) for Monitoring and Surveillance for the Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek Dams for the period beginning January 1, 2016 through December 31, 2018, GENTERRA Consultants, Inc. (GENTERRA) proposes to perform the following services.

1. The District will collect water surface elevations at Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon and Santiago Creek Dams daily. The District will collect measurements from all piezometers, monitoring wells and seepage monitoring stations monthly for Rattlesnake Canyon, Sand Canyon, Syphon Canyon, and San Joaquin Dams; and twice per month for Santiago Creek Dam. All data collected will be transmitted to GENTERRA monthly and upon GENTERRA's request.
2. GENTERRA will evaluate the data within five working days following receipt of the data and will maintain graphical plots of the water surface elevation, piezometer levels and seepage flow rates for Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek Dams.
3. The District will obtain annual measurements of the surface crest monuments on each dam. These measurements will be transmitted to GENTERRA annually for graphing and analysis.
4. Black sediment, identified as Organic Silt (OH), has been collecting in the East and West drain weir boxes at San Joaquin Dam. The sediment is being monitored monthly with a pictorial history. The District will take monthly pictures of the sediment in the weir boxes and transmit them to GENTERRA for evaluation and identification of any significant changes in appearance or quantity of the sediment.
5. GENTERRA will conduct a semi-annual field inspection of Rattlesnake Canyon, Sand Canyon, Syphon Canyon, and San Joaquin Dams; and quarterly field inspections of Santiago Creek Dam. District personnel will be available to accompany GENTERRA personnel on the field inspections. At least one inspection during the contract period will be performed while accompanied by an inspector from the State Division of Safety of Dams (DSOD) for Rattlesnake Canyon, Sand Canyon, and Syphon Canyon Dams. At least two inspections during the contract period will be performed while accompanied by an inspector from the DSOD for San Joaquin and Santiago Creek Dams. GENTERRA

**Proposal for Three-Year Monitoring & Surveillance Program for Rattlesnake Canyon, Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for Calendar Years 2016 Through 2018**

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will conduct additional field inspections as requested by the District or the DSOD. Any detailed inspection, exploration, or investigation of the safety and stability of each dam is beyond the Scope of Work and must be authorized separately by the District.

6. GENTERRA will prepare all annual reports summarizing the surveillance and monitoring of each dam. The report will include location plans and sections of each dam showing major features, including piezometers, surface crest monuments and seepage monitoring points. It will incorporate the graphical plots of water surface elevations, piezometer levels and seepage flow rates prepared by GENTERRA. GENTERRA will present an analysis of this data and the results of the field inspection observations. GENTERRA will present conclusions and recommendations for corrective actions relative to the safety and stability of each dam. The report will be prepared by GENTERRA in a form acceptable to both the District and the DSOD as well as meeting the requirements of the "Statutes and Regulations Pertaining to Supervision of Dams and Reservoirs" and any other applicable federal, state and local codes. Six (6) hard copies of the draft report along with the electronic files (Microsoft Word and Adobe Acrobat) will be submitted to the District for review within six (6) weeks following the end of the twelve (12) month period. Eight (8) hard copies of the final report along with the electronic files (Microsoft Word and Adobe Acrobat) will be submitted to the District following comment incorporation. The District will submit two (2) hard copies of the final report to the DSOD.
7. GENTERRA will also review the data described above in Paragraphs 1 through 6 at a six-month interval between the annual report due date and provide comments to the District relative to the safety of each dam and any corrective measures requiring attention by the District. This report will be submitted within six (6) weeks following the end of the six (6) month period.
8. GENTERRA's proposal includes 30 hours per year for engineering assistance on an as-needed basis.
9. All electronic data files, including but not limited to, documents, drawings, charts and spreadsheets created and/or maintained by GENTERRA for the District during the course of this scope of work are the property of the District and will be provided to the District at the end of the contract period or upon request.

**Proposal for Three-Year Monitoring & Surveillance Program for Rattlesnake Canyon,  
Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for  
Calendar Years 2016 Through 2018**

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**4. SCHEDULE**

GENTERRA hereby confirms our firm's ability to complete all work, considering our firm's current and planned workload, based on the proposed schedule.

**Proposal for Three-Year Monitoring & Surveillance Program for Rattlesnake Canyon,  
Sand Canyon, San Joaquin, Syphon Canyon, and Santiago Creek (Irvine Lake) Dams for  
Calendar Years 2016 Through 2018**

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**5. BUDGET**

A Cost Estimate Summary Sheet provides the Not-To-Exceed fee for performing all services in the contract. The breakdown of the estimated hours that each project team member will contribute per task, along with reproduction expenses for each of the five (5) dams for each of the three years from 2016 through 2018 are provided in five (5) Cost Estimate Sheets. For this project, GENTERRA will apply its 2015 Professional Fee Schedule for all three years. There will be no escalation of fee for the duration of the contract. The Cost Estimate Summary Sheet, the five (5) detailed Cost Estimate Sheets, and the 2015 Professional Fee Schedule are provided in a separate sealed envelope.

**Cost Estimate Summary Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for Rattlesnake Cyn, Sand Cyn, San Joaquin, Syphon Cyn, and Santiago Creek Dams**  
**for Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

	<b>Total Labor</b>	<b>Total Expenses</b>	<b>Total Cost Per Year</b>	<b>TOTAL COST FOR 3 YEARS</b>
Rattlesnake Canyon Dam	\$8,260	\$0	\$8,260	\$24,780
Sand Canyon Dam	\$8,260	\$0	\$8,260	\$24,780
San Joaquin Dam	\$8,260	\$0	\$8,260	\$24,780
Syphon Canyon Dam	\$8,260	\$0	\$8,260	\$24,780
Santiago Creek Dam	\$9,740	\$0	\$9,740	\$29,220
30 Hrs Engineering Assistance As-Needed	\$5,550	\$0	\$5,550	\$16,650
	<b>\$48,330</b>	<b>\$0</b>	<b>\$48,330</b>	<b>\$144,990</b>

**Not-To-Exceed  
Fee**

**Cost Estimate Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for Rattlesnake Canyon Dam**  
**Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

Classification	Sr. Principal Eng / Proj. Manager	Principal Engineer	Principal Engineer	Project Engineer	Supv. Technician	Office Assistant	Total Hours	Total Labor Cost	Expenses			Total Expenses	TOTAL COST
									Travel	Computer Usage	Reproduction / Misc.		
Personnel Initials	JJK	DAH	SB	NMJ/JDD	JWK	TC/MAF							
Task Description	Hourly Rate (2015 Fee Schedule)	\$276	\$250	\$250	\$185	\$140	\$60						
1. Data Review and Analysis	1	3	0	12	0	0	16	\$3,246	\$0.00	\$0.00	\$0.00	\$0	\$3,246
2. Field Evaluations (2 per year)	0	0	0	8	0	0	8	\$1,480	\$0.00	\$0.00	\$0.00	\$0	\$1,480
3. Report Preparation	1	2	0	8	2	1	14	\$2,590	\$0.00	\$0.00	\$0.00	\$0	\$2,590
4. Coordination and Discussions	1	1	0	2	0	1	5	\$950	\$0.00	\$0.00	\$0.00	\$0	\$950
<b>Subtotal Hours =</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>2</b>	<b>43</b>					<b>\$0</b>	<b>\$8,260</b>
<b>Subtotal Cost =</b>	<b>\$810</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$5,550</b>	<b>\$280</b>	<b>\$120</b>		<b>\$8,260</b>					

**TOTAL COST PER YEAR = \$8,260**

**TOTAL COST FOR 3 YEARS = \$24,780**

Personnel Initials and Names  
 JJK Joseph J. Kulikowski, P.E., G.E.  
 DAH Douglas A. Harriman, P.E., CGWP  
 SB Soma Balachandran, Ph.D., P.E., G.E.  
 NMJ Nicholas M. Josten, P.E.  
 JDD Joseph D. Druzak, P.E.  
 JWK J. William Kulikowski  
 TC Tanya Cason  
 MAF Mary Frembling

**Cost Estimate Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for Sand Canyon Dam**  
**Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

Classification	Sr. Principal Eng / Proj. Manager	Principal Engineer	Principal Engineer	Project Engineer	Supv. Technician	Office Assistant	Total Hours	Total Labor Cost	Expenses			Total Expenses	TOTAL COST	
									Travel	Computer Usage	Reproduction / Misc.			
Personnel Initials	JJK	DAH	SB	NMJ/JDD	JWK	TC/MAF								
Task Description	Hourly Rate (2015 Fee Schedule)	\$270	\$250	\$250	\$185	\$140	\$60							
1. Data Review and Analysis		1	3	0	12	0	0	16	\$3,240	\$0.00	\$0.00	\$0.00	\$0	\$3,240
2. Field Evaluations (2 per year)		0	0	0	8	0	0	8	\$1,480	\$0.00	\$0.00	\$0.00	\$0	\$1,480
3. Report Preparation		1	2	0	8	2	1	14	\$2,590	\$0.00	\$0.00	\$0.00	\$0	\$2,590
4. Coordination and Discussions		1	1	0	2	0	1	5	\$950	\$0.00	\$0.00	\$0.00	\$0	\$950
<b>Subtotal Hours =</b>		<b>3</b>	<b>6</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>2</b>	<b>43</b>				<b>\$0</b>	<b>\$8,260</b>	
<b>Subtotal Cost =</b>		<b>\$810</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$5,550</b>	<b>\$280</b>	<b>\$120</b>		<b>\$8,260</b>					

TOTAL COST PER YEAR = \$8,260

TOTAL COST FOR 3 YEARS = \$24,780

Personnel Initials and Names

JJK Joseph J. Kulikowski, P.E., G.E.  
 DAH Douglas A. Harriman, P.E., CGWP  
 SB Soma Balachandran, Ph.D., P.E., G.E.  
 NMJ Nicholas M. Josten, P.E.  
 JDD Joseph D. Duzak, P.E.  
 JWK J. William Kulikowski  
 TC Tacya Cason  
 MAF Mary Frembling

**Cost Estimate Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for San Joaquin Dam**  
**Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

Classification	Sr. Principal Eng / Prof-Manager	Principal Engineer	Principal Engineer	Project Engineer	Supv. Technician	Office Assistant	Total Hours	Total Labor Cost	Expenses			Total Expenses	TOTAL COST
									Travel	Computer Usage	Reproduction / Misc.		
Personnel Initials	JJK	DAH	SB	NMJ/JDD	JWK	TC/MAF							
Task Description	Hourly Rate (2015 Fee Schedule)	\$270	\$250	\$250	\$185	\$140	\$60						
1. Data Review and Analysis (including review of black sediments)	1	3	0	12	0	0	16	\$3,240	\$0.00	\$0.00	\$0.00	\$0	\$3,240
2. Field Evaluations (2 per year)	0	0	0	8	0	0	8	\$1,480	\$0.00	\$0.00	\$0.00	\$0	\$1,480
3. Report Preparation	1	2	0	8	2	1	14	\$2,590	\$0.00	\$0.00	\$0.00	\$0	\$2,590
4. Coordination and Discussions	1	1	0	2	0	1	5	\$950	\$0.00	\$0.00	\$0.00	\$0	\$950
<b>Subtotal Hours =</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>2</b>	<b>43</b>					<b>\$0</b>	<b>\$8,260</b>
<b>Subtotal Cost =</b>	<b>\$810</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$5,550</b>	<b>\$280</b>	<b>\$120</b>		<b>\$8,260</b>					

**TOTAL COST PER YEAR = \$8,260**

**TOTAL COST FOR 3 YEARS = \$24,780**

**Personnel Initials and Names**

JJK Joseph J. Kulikowski, P.E., G.E.  
 DAH Douglas A. Harriman, P.E., CGWP  
 SB Soma Balachandran, Ph.D., P.E., G.E.  
 NMJ Nicholas M. Josten, P.E.  
 JDD Joseph D. Dluzak, P.E.  
 JWK J. William Kulikowski  
 TC Tanya Cason  
 MAF Mary Frembling

**Cost Estimate Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for Syphon Canyon Dam**  
**Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

Classification	Sr. Principal Eng / Proj. Manager	Principal Engineer	Principal Engineer	Project Engineer	Supv. Technician	Office Assistant	Total Hours	Total Labor Cost	Expenses			Total Expenses	TOTAL COST	
									Travel	Computer Usage	Reproduction / Misc.			
Personnel Initials	JJK	DAH	SB	NMJ/JDD	JWK	TC/MAF								
Task Description	Hourly Rate (2015 Fee Schedule)	\$270	\$250	\$250	\$185	\$140	\$60							
1. Data Review and Analysis	1	3	0	12	0	0		16	\$3,240	\$0.00	\$0.00	\$0.00	\$0	\$3,240
2. Field Evaluations (2 per year)	0	0	0	8	0	0		8	\$1,480	\$0.00	\$0.00	\$0.00	\$0	\$1,480
3. Report Preparation	1	2	0	8	2	1		14	\$2,590	\$0.00	\$0.00	\$0.00	\$0	\$2,590
4. Coordination and Discussions	1	1	0	2	0	1		5	\$950	\$0.00	\$0.00	\$0.00	\$0	\$950
<b>Subtotal Hours =</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>30</b>	<b>2</b>	<b>2</b>		<b>43</b>				<b>\$0</b>	<b>\$8,260</b>	
<b>Subtotal Cost =</b>	<b>\$810</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$5,550</b>	<b>\$280</b>	<b>\$120</b>			<b>\$8,260</b>					

TOTAL COST PER YEAR = \$8,260

TOTAL COST FOR 3 YEARS = \$24,780

Personnel Initials and Names  
 JJK Joseph J. Kulikowski, P.E., G.E.  
 DAH Douglas A. Harriman, P.E., CGWP  
 SB Soma Balachandran, Ph.D., P.E., G.E.  
 NMJ Nicholas M. Josten, P.E.  
 JDD Joseph D. Druzak, P.E.  
 JWK J. William Kulikowski  
 TC Tanya Cason  
 MAF Mary Frembling

**Cost Estimate Sheet**  
**Proposal for Three-Year Monitoring and Surveillance Program**  
**for Santiago Creek Dam**  
**Calendar Years 2016 Through 2018**  
**Irvine Ranch Water District**

Classification	Sr. Principal Eng / Proj. Manager	Principal Engineer	Principal Engineer	Project Engineer	Supv. Technician	Office Assistant	Total Hours	Total Labor Cost	Expenses			Total Expenses	TOTAL COST
									Travel	Computer Usage	Reproduction / Misc.		
Personnel Initials	JJK	DAH	SB	NMJ/JDD	JWK	TC/MAF							
Task Description	Hourly Rate (2015 Fee Schedule)	\$270	\$250	\$250	\$185	\$140	\$60						
1. Data Review and Analysis	1	3	0	12	0	0	16	\$3,240	\$0.00	\$0.00	\$0.00	\$0	\$3,240
2. Field Evaluations (4 per year)	0	0	0	16	0	0	16	\$2,960	\$0.00	\$0.00	\$0.00	\$0	\$2,960
3. Report Preparation	1	2	0	8	2	1	14	\$2,590	\$0.00	\$0.00	\$0.00	\$0	\$2,590
4. Coordination and Discussions	1	1	0	2	0	1	5	\$950	\$0.00	\$0.00	\$0.00	\$0	\$950
<b>Subtotal Hours =</b>	<b>3</b>	<b>6</b>	<b>0</b>	<b>38</b>	<b>2</b>	<b>2</b>	<b>51</b>					<b>\$0</b>	<b>\$9,740</b>
<b>Subtotal Cost =</b>	<b>\$810</b>	<b>\$1,500</b>	<b>\$0</b>	<b>\$7,030</b>	<b>\$280</b>	<b>\$120</b>		<b>\$9,740</b>					

**TOTAL COST PER YEAR = \$9,740**

**TOTAL COST FOR 3 YEARS = \$29,220**

**Personnel Initials and Names**

JJK Joseph J. Kulikowski, P.E., G.E.  
 DAH Douglas A. Harriman, P.E., CGWP  
 SB Soma Balachandran, Ph.D., P.E., G.E.  
 NMJ Nicholas M. Josten, P.E.  
 JDD Joseph D. Druzak, P.E.  
 JWK J. William Kulikowski  
 TC Tanya Cason  
 MAF Mary Frembling



**GENTERRA CONSULTANTS, INC. Proposal P2203**  
**2015 PROFESSIONAL FEE SCHEDULE**  
**ENGINEERING AND GEOTECHNICAL CONSULTING SERVICES**

**FEES FOR PROFESSIONAL, TECHNICAL AND SUPPORT STAFF**

GENTERRA Consultants, Inc. charges our clients for professional, technical and support services for time directly related to a project. Charges are not made for ordinary secretarial services, office management, accounting, maintenance or other activities not directly related to a project. Current personnel classifications and rates are summarized below:

<b><u>PERSONNEL CLASSIFICATION</u></b>	<b><u>RATE (\$ PER HOUR)</u></b>
Office Assistant <sup>(1)</sup> (OFC ASST).....	60
Word Processor/Typist <sup>(1)</sup> (WORD PROC).....	80
Draftsperson/Technical Illustrator <sup>(1)</sup> (TI).....	85
Field/Laboratory Technician <sup>(1)</sup> (TECH).....	95
Senior Field/Laboratory Technician <sup>(1)</sup> and CAD Designer <sup>(1)</sup> (SR TECH/CAD).....	120
Supervisory Technician/Field Operations Manager <sup>(1)</sup> (SUPV TECH).....	140
Staff Engineer/Geologist/Scientist <sup>(1)</sup> (STAFF).....	150
Senior Staff Engineer/Geologist/Scientist <sup>(1)</sup> (SR STAFF).....	165
Project Engineer/Geologist/Scientist (PROJECT).....	185
Senior Project Engineer/Geologist/Scientist (SR PROJECT).....	195
Associate (ASSOC).....	215
Senior Associate (SR ASSOC).....	225
Principal (PRINC).....	250
Senior Principal (SR PRINC).....	270

(1) Overtime will be charged at 1.25 times the above listed rates for these personnel classifications. Prevailing wage rates will be applied for field personnel when required based on published rates for the project location. Overtime is defined as time charged to a project in excess of 8 hours per day and time worked on weekends and holidays.

Contract personnel, if used on a project, may be charged at the hourly rates listed above. Travel time will be charged at regular hourly rates.

Charges for services related to court appearances and for expert witness testimony will be 175% of regular hourly rates, with a minimum daily charge of 4 hours, plus expenses. Preparation for testimony for all expert and support personnel will be charged at regular hourly rates.

**PROJECT-RELATED EXPENSES**

Expenses directly related to a project will be billed as follows:

Subcontractors (drilling, trenching, surveying, testing, etc.), travel-related expenses (hotels, meals, vehicle rentals, air travel, etc.) and other project expenses (e.g., aerial photographs, outside reprographics, equipment rental, overnight shipping, project-related expendable supplies, etc.) will be charged at cost plus 15 percent.

Nuclear density gauges used on projects will each be charged at the rate of \$80.00 per day. A water level indicator used for wells and piezometers will be charged at the rate of \$45.00 per day. Rates for other special field equipment will be provided in advance of use on each project. ~~In-house photocopy/reproduction will be billed at \$0.15 per page for black and white copies and \$1.50 per page for color copies and color digital photographs.~~ *Waived for This Proposal*

~~Mileage for project-related travel will be billed at Federal Approved Mileage Rate of \$0.575 per mile. Field vehicles used for site investigations and during construction are billed at \$15.00 per hour plus mileage charges.~~ *Waived for This Proposal*

Charges for laboratory soils testing are shown on a separate fee schedule.

### **CHANGES TO FEE SCHEDULE**

This fee schedule applies to services rendered in the current year and/or until a new fee schedule is issued. GENTERRA Consultants, Inc. (GENTERRA) reviews and revises our fee schedule periodically. Unless other arrangements have been made, charges for services (including continuing projects initiated in the prior year) will be based on the most recently published fee schedule.

### **INVOICES**

Invoices will be issued monthly, or at other specified intervals for some projects, and will be payable upon receipt unless other arrangements have been agreed upon. Interest of one percent per month (but not exceeding the maximum rate allowed by law) will be payable on accounts not paid within 30 days, unless prior agreement is made for other terms. Any attorney's fees or other costs incurred in collecting any delinquent account shall be paid by the client.

A retainer of 50 percent of the total fee is required for projects with total fees of \$5,000 or less, or for projects for which the cost of field studies and/or equipment account for more than 50 percent of the total fee. For projects with total fees of less than \$5,000, the balance of payment must be paid at the time the report is released to the client.

### **CONDITIONS**

GENTERRA warrants that its services are performed, within the limits prescribed by our clients, in accordance with generally accepted standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. No other warranty, either express or implied, is included or intended in GENTERRA's proposals, contracts or reports.

### **DISCLOSURE**

Client agrees to provide all information in Client's possession pertinent to actual or possible presence of hazardous materials on the site, and agrees to compensate GENTERRA for all costs associated with the unanticipated discovery of hazardous materials or damage to utilities not previously identified.

November 23, 2015  
Prepared by: K. Drake  
Submitted by: P. Sheilds  
Approved by: Paul Cook 

## ACTION CALENDAR

### ENTERPRISE ASSET MANAGEMENT SYSTEM PROJECT SUPPORT VARIANCE

#### SUMMARY:

The pre-implementation phase of the Enterprise Asset Management System (EAMS) project including the asset inventory database of the District's operating facilities is scheduled for completion in mid-2016. This project will then proceed to the critical implementation phase with consulting support services required to augment staff efforts by providing oversight for the project. As the current professional services agreement with GHD expires December 31, 2015, staff recommends that the Board authorize the General Manager to execute Variance No. 1 for \$310,200 to provide continued project management and coordination services for this project.

#### BACKGROUND:

The EAMS is designed to improve the District's ability to manage and derive maximum value from its assets from acquisition to retirement. This system will provide tools for tracking and scheduling preventive and predictive maintenance, regulatory compliance, budgeting and procurement analysis, and monitoring key performance indicators (KPIs). The first phase of the project, initiated in January 2015, includes pre-implementation activities such as completing the asset inventory database, asset identification, condition assessment protocols, and asset consequence of failure analysis. The second or implementation phase will include milestones such as recommending and seeking approval of a software package; initiating the software implementation process; finalizing maintenance organizational structure impacts; developing business processes and asset management strategies; and the continuation of asset consequence of failure analysis. These are important steps for completing the first major goal of utilizing the EAMS as a replacement of the Legacy Tabware's computerized maintenance management system program currently in use. Future phases will include the addition of piping systems (known as "horizontal assets"), integration of the geographic information system, development of mobile applications and the use of maintenance schedulers and planners.

During the planning stages for the EAMS project, project management for Phase One was anticipated to be performed by the Maintenance and Reliability Manager; however, as a result of various conditions, it has been managed by a full-time Project Manager since January 2015. The Operations Department provides guidance as well as staff from the Electrical and Mechanical Service Departments for the asset data collection effort and other project support.

#### Professional Variance No. 1

Variance No. 1 provides for project management support services on a full-time basis through 2016 completing the pre-implementation phase and moving on to the first stages of the implementation phase. Staff recommends the execution of Variance No. 1 as provided in Exhibit "A" in the amount of \$310,200 with GHD. This constitutes a variance of 100% over the original contract bringing the total contract amount to \$620,400.

FISCAL IMPACTS:

Sufficient funds are available in the FY 2015-16 Capital Budget.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH GHD IN THE AMOUNT OF \$310,200 FOR PROJECT MANAGEMENT SUPPORT SERVICES FOR THE ENTERPRISE ASSET MANAGEMENT SYSTEM PROJECT.

LIST OF EXHIBITS:

Exhibit "A" – Variance No. 1

**EXHIBIT "A"**  
**IRVINE RANCH WATER DISTRICT**  
**PROFESSIONAL SERVICES VARIANCE**

Project Title: Enterprise Asset Management System Project Support

Project No.: \_\_\_\_\_ Date: November 11, 2015

Purchase Order No.: \_\_\_\_\_ Variance No.: 1

Originator:     IRWD     ENGINEER/CONSULTANT     Other (Explain) \_\_\_\_\_

**Description of Variance (attach any back-up material):**

Project Management Support Services to complete the pre-implementation phase and moving forward on the first stages of the implementation phase.

**Engineering & Management Cost Impact:**

Classification	Manhours	Billing Rate	Labor \$	Direct Costs	Subcon. \$	Total \$
<b>Total \$ =</b>						

**Schedule Impact:**

Task No.	Task Description	Original Schedule	Schedule Variance	New Schedule

**Required Approval Determination:**

Total Original Contract	<u>\$ 310,200</u>	<input type="checkbox"/> Director: Cumulative total of Variances less than or equal to \$50,000.
Previous Variances \$ 0		
This Variance	<u>\$ 310,200</u>	<input type="checkbox"/> Executive Director: Cumulative total of Variances less than or equal to \$75,000.
Total Sum of Variances	<u>\$ 310,200</u>	
New Contract Amount	<u>\$ 620,400</u>	<input type="checkbox"/> General Manager: Cumulative total of Variances less than or equal to \$100,000.
Percentage of Total Variances to Original Contract	<u>100%</u>	

ENGINEER/CONSULTANT: GHD  
 Company Name

IRVINE RANCH WATER DISTRICT

Project Engineer/Manager \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_ Date \_\_\_\_\_

Engineer's/Consultant's Management \_\_\_\_\_ Date \_\_\_\_\_

General Manager/Board \_\_\_\_\_ Date \_\_\_\_\_

November 23, 2015

Prepared by: H. Cho/M. Cortez

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

Approved by: Paul Cook *Paul Cook*

## ACTION CALENDAR

### DYER ROAD WELL FIELD SURGE TANKS CONSULTANT SELECTION

#### SUMMARY:

The Dyer Road Well Field (DRWF) Surge Tanks project will replace the existing surge tanks at Well 11 and Well 15 that are corroding and will install new surge tanks at Well 5 and Well 7 to provide protection against pressure surges in the Zone 1 system. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with Tetra Tech in the amount of \$290,000 for the DRWF Surge Tanks, Project 11754.

#### BACKGROUND:

The DRWF was constructed in the 1990s as a domestic water source for IRWD and consists of 18 wells located in Santa Ana. The wells were constructed with surge tanks located underground at Well 11 and Well 15 and aboveground at Well 13 to protect against pressure surges. The surge tanks at Well 11 and Well 15 are mostly buried with one end located in a vault which includes a tank manway. Inspection of the surge tank walls in the vaults at Well 11 and Well 15 indicate that the walls of both surge tanks are thinning from corrosion and are near the end of their useful lives. As part of the investigation into their replacement, staff initiated a comprehensive surge analysis of the entire DRWF Zone 1 system including the Well 21/22 Treatment Plant with Flow Science. Since DRWF is served by three Southern California Edison substations, Flow Science analyzed individual scenarios where one, two, and all three substations failed. Based on this analysis, Flow Science recommended new surge tanks at Well 5, Well 7, and Well 16 that have room for the proposed surge tanks in addition to replacing the two existing surge tanks at Well 11 and Well 15.

The DRWF Surge Tanks project will replace the existing surge tanks at Well 11 and Well 15 and install new surge tanks at Well 5 and Well 7. These will be built aboveground where feasible to avoid corrosion. The surge tank at Well 16 will be built as part of the Initial Disinfection Facility (IDF) Sodium Hypochlorite Storage and Feed System project, which is currently being designed by Carollo Engineers since Well 16 and IDF are located on the same site.

#### Consultant Selection Process:

In August, staff issued a request for proposal for the design to four consultants: Carollo Engineers, Lee & Ro, Tetra Tech, and West Yost Associates. Staff evaluated the proposals and selected Tetra Tech based on their team's project understanding, extensive experience on similar projects, and proposal fee. Carollo Engineers, Tetra Tech, and West Yost Associates proposal costs are close together and represent the true cost of the design project. Of these proposals, Tetra Tech provides the best value as they provide the most design hours (1,672 preliminary and final design hours) at the overall second lowest fee. The consultant selection matrix is attached as Exhibit "B". Tetra Tech's proposal is in the amount of \$290,000, and is included as Exhibit "C".

FISCAL IMPACTS:

Project 11754 (5473) is included in the FY 2015-16 capital budget. The existing budget is sufficient to fund the design.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA). In conformance with the California Code of Regulations Title 14, Chapter 3, Section 15004, the appropriate environmental document will be prepared when "meaningful information" becomes available. It is expected that preliminary analysis will lead to preparation of a Notice of Exemption for the project.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on November 17, 2015.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH TETRA TECH IN THE AMOUNT OF \$290,000 FOR THE DYER ROAD WELL FIELD SURGE TANKS, PROJECT 11754 (5473).

LIST OF EXHIBITS:

- Exhibit "A" – Site Location Map
- Exhibit "B" – Consultant Selection Matrix
- Exhibit "C" – Tetra Tech Proposal



# EXHIBIT "B"

## Newport Coast Lift Station Rehabilitation Consultant Selection Matrix

	Weights	Carollo	Lee & Ro	Tetra Tech	West Yost
<b>TECHNICAL APPROACH</b>	60%				
*Project Approach	50%	1	3	2	4
*Scope of Work	50%	2	3	1	4
Weighted Score (Technical Approach)		1.50	3.00	1.50	4.00
<b>EXPERIENCE</b>	40%				
*Firm/Team	30%	2	3	1	4
*Project Manager	40%	2	4	1	3
*Project Engineer	30%	1	3	2	4
Weighted Score (Experience)		1.70	3.40	1.30	3.60
Project Manager		Yrs	Yrs	Yrs	Yrs
Project Engineer		Jeff Weishaar	Dushyant Dave	Tom Epperson	Stephen Dopudja
QC/QA		John Jearney	Charles Ro	Mike Tsoi	Kristen Whatley
Structural		Tim Taylor	Eric Lovering		Momo Savovic
Electrical/Instrumentation		James Doering		David Kuang	<i>Kleinfelder</i>
Surveying		Troy Hedlund	Michael Assadourian	Mazen Kassar	<i>SPEC Services</i>
Geotechnical		<i>Borchard</i>	<i>Calvada</i>	<i>Leighton</i>	<i>Guida</i>
Potholing		<i>Converse</i>	<i>Associated Soils</i>	<i>C Below</i>	<i>NMG</i>
Cathodic Protection		<i>Borchard</i>	<i>Saf-R-Dig</i>		<i>SAF-r-DIG</i>
		<i>V&amp;A Consultants</i>	<i>Corpro</i>		<i>JDH Corrosion</i>
<b>COMBINED WEIGHTED SCORE</b>		1.58	3.16	1.42	3.84
		Man-hours	Man-hours	Man-hours	Man-hours
Task 1 Preliminary Design Report		400	358	535	222
Task 2 Final Design		922	586	1,112	596
Task 3 Optional Design Hours		26	0	25	12
<b>TOTAL HOURS</b>		1,348	944	1,672	830
<b>Sheet Count</b>					
General		8	6	3	Not stated
Civil		7	16	9	Not stated
Mechanical		7	1	9	Not stated
Structural		8	5	6	Not stated
Electrical		13	14	6	Not stated
Instrumentation		21	5	6	Not stated
Demolition		4	4	3	Not stated
Subtotal		68	51	42	Not stated
Optional Design		0	3	0	Not stated
<b>TOTAL SHEETS</b>		68	54	42	Not stated
<b>FD HRS/SHT</b>		14	11	26	Not stated
<b>FEE</b>					
PDR		\$98,678	\$78,497	\$108,780	\$100,574
Final Design		\$165,222	\$72,467	\$161,000	\$165,735
Optional Design		\$53,918	\$34,035	\$20,220	\$33,526
<b>Total</b>		<b>\$317,818</b>	<b>\$184,999</b>	<b>\$290,000</b>	<b>\$299,835</b>
Final Design Costs per hour		\$179	\$124	\$145	\$278
Number of Drawings		68 dwgs	54 dwgs	42 dwgs	Not stated dwgs
Final Design Unit Prices (\$/dwg)		\$3,223	\$1,972	\$4,315	Not stated
Professional Liability Insurance		YES	YES	YES	YES
General Liability Insurance		YES	YES	YES	YES
<b>FORCED RANKINGS:</b>		Second	Third	First	Fourth
1 - First					
2 - Second					
3 - Third					
4 - Fourth					

## EXHIBIT "C"



**TETRA TECH**

September 29, 2015

Mr. Malcolm A. Cortez, P.E., Principal Engineer  
Engineering Operations Support  
Irvine Ranch Water District  
3512 Michelson Drive  
Irvine, CA 92612

**Reference: Proposal for Engineering Design Services for  
Dyer Road Well Field Surge Tank Project**

Dear Mr. Cortez:

Tetra Tech is pleased to submit our proposal for engineering design services for the Dyer Road Well Field Surge Tank Project. We value the relationship that has been built with Irvine Ranch Water District (IRWD) during our past projects and look forward to continuing and expanding this association in the future. Our project team is the "*right*" team to provide these services for the following reasons:

- **Extensive IRWD Surge Tank Experience** – Members of the project team have designed and completed numerous successful pump station projects which included the construction of surge tanks. These include the following: Zone 1-3 Booster Pump Station; Shady Canyon Zone B Booster Pump Station; Coastal Booster Pump Station Modifications; Tustin Zone 5 Booster Pump Station; and Well 77 (bladder tank). Therefore, our project team knows IRWD's surge tank design, electrical and P&ID standards, preferred materials, and operational preferences which will allow us to deliver a complete design in the most cost-effective manner.
- **Extensive Pump Station/Wells Design Experience with IRWD** – Our project team has previously designed over six (6) pump station, and ten (10) well facilities projects for IRWD. We know IRWD.
- **Local In-House Survey, Structural, Electrical and Control Capabilities** – Tetra Tech has our own in-house local, registered surveyor, structural, electrical and control engineers with extensive experience with IRWD facilities.
- **Dedication to IRWD** – Tetra Tech believes that IRWD is an important client. Our approach will include a "teaming and partnering" relationship. We will strive to exceed your expectations through hard work, attention to detail, close communication, schedule and budget management.

Our team is looking forward to working with you and your staff. We are committed to providing IRWD with high quality service. If you have any questions regarding our proposal, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Epperson'.

Tom Epperson, P.E.  
Project Manager

TLE/bm

M:\Marketing\Proposals\WTRSFY2015\WTM10\_IRWD-DyerRd-WellFieldSurgeTank\drafts  
Attachment

Tetra Tech, Inc.  
17885 Von Karman Avenue, Suite 500 Irvine, CA 92614-6213  
Tel 949.809.5000 Fax 949.809.5010 www.tetrattech.com



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## WHY TETRA TECH

Tetra Tech is the “right” team to provide the engineering design services for the Dyer Road Well Field Surge Tank Project for the following reasons:

- **Extensive IRWD Surge Tank Experience** – Members of the project team have designed and completed numerous successful pump station projects which included the construction of surge tanks. These include the following: Zone 1-3 Booster Pump Station; Shady Canyon Zone B Booster Pump Station; Coastal Booster Pump Station Modifications; Tustin Zone 5 Booster Pump Station; and Well 77 (bladder tank). Therefore, our project team knows IRWD’s surge tank design, electrical and P&ID standards, preferred materials, and operational preferences which will allow us to deliver a complete design in the most cost-effective manner.
- **Extensive Pump Station/Wells Design Experience with IRWD** – Our project team has previously designed over six (6) pump station, and ten (10) well facilities projects for IRWD. We know IRWD.
- **Local In-House Survey, Structural, Electrical and Control Capabilities** – Tetra Tech has our own in-house local, registered surveyor, structural, electrical and control engineers with extensive experience with IRWD facilities.
- **Dedication to IRWD** – Tetra Tech believes that IRWD is an important client. Our approach will include a “teaming and partnering” relationship. We will strive to exceed your expectations through hard work, attention to detail, close communication, schedule and budget management.

Our extensive experience with similar IRWD projects will ensure that IRWD will receive a high level of service delivered by qualified and knowledgeable engineering professionals. Highly meticulous and coherent plans and specifications greatly benefit all project stakeholders, with the largest benefit realized by the Owner. Quality contract documents clearly lead to a larger number of bidders, lower competitive bid prices (due to increased competition, the contractor has less to assume and take the risk for, and a greater overall comfort level in our design based on a long history of successful projects), and lowest overall cost while achieving a very high quality end product (quality contract documents mitigates the potential, and impact of change orders, and sets forth a standard of quality the contract must achieve).

This is a challenging project, and it should be managed by a well tenured team of professionals who have a history of successfully completing similar projects within schedule and under budget. We have that team with **Tom Epperson, P.E., Project Manager**, and **Mike Tsoi, P.E., Task Leader**. Tom and Mike have worked together for over 15 years on pipeline and well/pump station projects for IRWD.

No two projects are the same, although many are similar. The key is to utilize elements of work that have been successful and can be appropriately applied to this project, continue to improve construction efficiencies without lowering quality based on contractor feedback, and maximize the overall operational flexibility.

We feel the previous work that Tetra Tech has done on the Zone 1-3 Booster Pump Station as well as the several IDP Well Projects are examples of our quality product which has resulted in a low overall cost for IRWD. We want to utilize the experience gained from working on the previous projects, and to continue providing IRWD with exceptional services to assure that another project is successfully completed to the satisfaction of IRWD.



## PROJECT UNDERSTANDING

The Dyer Road Well Field (DRWF) was constructed in the 1990s as a domestic water source for IRWD. DRWF consists of 18 wells located in the City of Santa Ana. Several of the wells, Well 11, Well 13, and Well 15, were originally constructed with surge tanks. The surge tank at Well 11 is 22,300 gallons in size and buried underground with one end of the tank exposed in a vault. The surge tank at Well 13 is 2,400 gallons in size and located aboveground. The surge tank at Well 15 is 10,500 gallons in size and buried underground with one end of the tank exposed in a vault.

Well 11 and Well 15 sites are located in areas with shallow groundwater. Inspection of the surge tanks indicates that the tanks are corroding and the tank wall thickness is thinning. Due to the decreasing wall thicknesses, these tanks need to be replaced.

With the need to replace the Well 11 and Well 15 surge tanks, IRWD retained Flow Science to perform a comprehensive surge analysis to determine the required surge protection for IRWD's DRWF and the Zone 1 Distribution System. Based on the 2015 Flow Science Report, IRWD is proposing to install new surge tanks at Well 5 and Well 7 and replace the existing surge tanks at Well 11 and Well 15. It is IRWD's desire to construct all four surge tanks aboveground to avoid groundwater and corrosion. There is room for the aboveground surge tanks at Well 5 and Well 7. Well 11 and Well 15 are located in residential neighborhoods, and Well 15 shares a parking lot with a Sikh Temple. One possible aboveground installation alternative is to recess the concrete foundation of the surge tank several feet into the ground so the aboveground tank does not have a tall profile. Access to the well and the well building must be maintained at all four of the well sites. IRWD prefers bladderless surge tanks. The existing air compressors at Well 11 and Well 15 will need to be replaced as part of the project.

The design scope will include:

- Design a new 603 cubic foot surge tank at Well 5, including an air compressor, piping, valves, and other appurtenances;
- Design a new 1,206 cubic foot surge tank at Well 7, including an air compressor, piping, valves, and other appurtenances;
- Determine the area available at Well 11 and Well 15 for construction of a larger replacement surge tanks;
- Design a larger 3,454 cubic foot surge tank at Well 11 to replace the existing 2,985 cubic foot tank, if the site can accommodate a larger tank; and
- Design a larger 1,570 cubic foot surge tank at Well 15 to replace the existing 1,400 cubic foot tank, if the site can accommodate a larger tank.



## PROJECT APPROACH

Tetra Tech fully understands the importance of your project. We are offering an outstanding team, which combines the experience, depth, and understanding needed for the successful delivery of this project. Our core principles establish how we plan to work together with IRWD to successfully complete this project:

- **Service** – Tetra Tech puts its clients first. We listen to and better understand our clients' needs and deliver smart, cost-effective solutions that meet those needs. Our philosophy is to "Do it Right."
- **Value** – Tetra Tech takes on our clients' problems as if they were our own. We develop and implement real-world solutions that are cost-effective, efficient, and practical.
- **Excellence** – Tetra Tech brings superior technical capability, disciplined project management, and excellence in safety and quality to all of our work.
- **Opportunity** – Our people are our number one asset. Our workforce is diverse and includes leading experts in our fields. Our entrepreneurial nature and commitment to success provides challenges and opportunities.

We value the relationship that has been established with IRWD, and look forward to continuing and further developing this association in the future. We are committed to providing IRWD with the same high quality service you expect and deserve. Our strength lies in our proven track record that has led to successful completion of multi-projects for IRWD, as well as, other project participants or nearby agencies. The following is a summary of the distinct advantages that the Tetra Tech team brings to IRWD.

### IRWD Design Experience

Members of our project team, Tom Epperson, Mike Tsoi, and our structural/electrical/controls staff, have completed the following pump station/well building projects for IRWD during the last ten years:

#### *Pump Station/Well Projects:*

- Well 78, Well 107, and Well 115 Replacements
- IDP Wellhead Facilities – Wells 76, 77, 110, and 107 (Well 77 included a 700 gallon bladder tank)
- IDP Principal Aquifer Plant, SGU Treatment Site, and Wells ET-2 and 78
- South County Zone 1-3 Booster Pump Station (included a 15,000 gallon surge tank)
- Shady Canyon Zone B (included a 11,750 gallon surge tank)
- Coastal RW Pump Station Modifications (included a 3,000 gallon and a 4,500 gallon surge tanks)
- Tustin Zone 5 Booster Pump Station (included a 2,500 gallon and 3,800 gallon surge tanks)

Therefore, our project team knows the IRWD's design procedures and standards, electrical and P&ID standards, preferred materials, and operational preferences which will allow us to deliver a complete design in the most cost-effective manner.



**Key Issues**

Successful implementation of the project will involve resolution of several key issues. We believe Tetra Tech has an unparalleled grasp of these issues based on our overall experience, capabilities, and familiarity with other IRWD projects, personnel and policies. Our approach to resolving project issues is summarized in the table below:

SUMMARY OF KEY ISSUES	
Issues	Tetra Tech Approach
<i>Well 5 and Well 7</i>	<ul style="list-style-type: none"> <li>• Location of new surge tank and air compressor enclosures. Minimize impacts to well maintenance and clearance from existing piping.</li> <li>• Identify the existing power available at each site and determine if it is sufficient or if improvements are required.</li> <li>• Ensure ease of future maintenance of surge tank, surge tank controls, and air compressor.</li> </ul>
<i>Well 11 and Well 15</i>	<ul style="list-style-type: none"> <li>• Determine limits of excavation for removal of existing surge tanks.</li> <li>• Determine required shoring to protect existing building, perimeter walls, and existing transformers.</li> <li>• Verify largest size for each of the replacement surge tanks.</li> <li>• Evaluate alternatives to minimize the tank profile – recess the concrete foundation several feet into the ground. Design appropriate retaining wall for the recessed concrete foundation or panel precast vaults.</li> <li>• Confirm existing air compressor and conduits – size, capacity, and features.</li> <li>• Evaluate options for drainage disposal of the recessed vault/pad sump area.</li> </ul>
<i>Controls and Operation</i>	<ul style="list-style-type: none"> <li>• Determine if additional electrical improvements are required at any site.</li> <li>• Review controls and operation of the surge tank controls and compressors.</li> <li>• Confirm location of conduit runs, conduit penetration and power conduits.</li> </ul>

**Project Management**

Over the years, Tetra Tech has established well defined, rigorous procedures for project management. These techniques have been developed and refined and have contributed to our success and reputation. The keys to our project management system are communications, project planning, monitoring, and quality assurance. The Tetra Tech team’s goal is to keep IRWD staff “in the loop” from day one of the project. Communication tools include the formal progress reports afforded through our project management system and an informal give-and-take approach starting with Tom Epperson, our Project Manager, and extending to every member of the Tetra Tech team. We will conduct formal meetings with agenda and typewritten notes, and we will use informal meetings with notes to file. We also will have documentation of telephone communications, with notes to file or letters of understanding as appropriate follow-up. Another important communication link will be our e-mail system.

We are proposing to use e-mail to keep IRWD aware of the status of the project. Every two weeks, Tetra Tech will prepare a brief (one or two paragraphs or bullet items) e-mail summarizing the following: activities completed in the previous week; the activities planned for the upcoming week; any critical decisions that need to be made; and schedule of upcoming events/meetings. In addition, each month we will prepare a project status memorandum containing the following: summary of project schedule; description of key issues/concerns which have surfaced along with proposed options and solutions; and a project status summary report showing current schedule and budget.



## SCOPE OF SERVICES

Members of the project team have performed an in-depth review of the project description and scope of work within the Request for Proposal (RFP). We propose to provide the following scope of work for the Preliminary Design and Final Design Phase Services. All work will be completed in accordance with the requirements identified in IRWD's Design Process Manual.

### Task 1 – Preliminary Design Report (PDR)

Tetra Tech will prepare a PDR including and addressing the following items:

1. Site Survey – Tetra Tech will conduct site survey work to design the new surge tanks, new air compressors, and any other required facilities, and provide topographic maps of the entire property of each of the four (4) project sites. The survey will be tied to the Orange County Public Works Survey Control network for horizontal and vertical control. Tetra Tech will set two (2) on site control temporary monuments at each project site that can be used during the construction phase of the project.
2. Utility Review – Tetra Tech will perform utility research necessary to locate utilities or other physical features including all IRWD utilities and any other utilities owned by other agencies. Tetra Tech has included budget for potholing of up to three (3) utilities as necessary at each of the four (4) sites for a total of twelve (12) potholes.
3. Geotechnical Review – Tetra Tech and Leighton Consulting will conduct a review of geotechnical reports and investigations for each site. Tetra Tech along with Leighton Consulting will determine if additional geotechnical investigations are required for each site.
4. Optional Geotechnical Investigation – If necessary, Leighton Consulting will conduct a geotechnical investigation at up to four (4) sites. This additional geotechnical/soils investigation work will include drilling of up to a total of four (4) borings (one soil boring per site) to determine the geotechnical conditions at the well sites. The borings will be advanced to a depth of 20 to 25 feet below the existing grade or auger refusal, whichever is shallower. Leighton will provide soils analysis for use in the design of the proposed improvements.
5. Conceptual Layout – Tetra Tech will provide a conceptual site layout for each well site. The site layouts shall include the location of the existing well building, proposed surge tank, any piping and valves, proposed air compressor, and conduit runs from the building to the surge tank and air compressor. The site layouts shall include the existing reservoirs, piping, and any other utility locations. The site layouts shall also include locations of existing or additional electrical transformers/panels and electrical conduits. The conceptual layout shall identify the property lines, and any other easement locations. The layout will include a location of any temporary tanks required during construction.
6. Optional Cathodic Protection – If any of the new surge tanks are buried, Tetra Tech will evaluate and design a cathodic protection system to protect the buried surge tank(s) including using sacrificial anodes. Any buried surge tank will also be coated. Any aboveground surge tanks will also be painted.
7. Electrical – Tetra Tech will identify the existing power available at each site and determine if it is sufficient or make recommendations for any required improvements for the installation of the surge tanks and air compressor. Tetra Tech will design additional electrical improvements necessary if additional



power is required at any of the sites. Tetra Tech will contact Southern California Edison if a larger Edison service is required.

8. Instrumentation – Tetra Tech will review the existing PLC at the well sites and provide an instrumentation design that will incorporate the new equipment. Tetra Tech will evaluate the existing PLCs to confirm the existing PLCs capability to incorporate any additional input and output points or whether PLC upgrades are needed. SCADA programming for the PLC will be provided by a third party programmer hired by IRWD.
9. Right-of-Way – Existing property lines are shown on the record drawings. Tetra Tech will identify all existing property lines, permanent easements and temporary construction easements required for the construction project, if required. IRWD will generate any legal descriptions, if required. Tetra Tech will provide the CAD files to prepare the legal description.
10. Permits – Tetra Tech will work with IRWD to identify and obtain the required permits for the proposed project including the City of Santa Ana Encroachment Permit and any others. Copies of the completed permits shall be inserted in the Project Manual's Appendix.
11. CEQA Documentation - Tetra Tech will provide IRWD with a summary of construction activities related to environmental impacts in support of CEQA documentation. We have budgeted \$4,000 for this task.
12. Project Schedule – Tetra Tech will submit one project schedule for the construction project that reflects coordination items, long lead items, critical path issues and IRWD review times.
13. Estimate of Probable Construction Costs – Tetra Tech will provide preliminary estimate of probable construction costs for the construction project.
14. Meetings – Tetra Tech has budgeted for four (4) meetings: project kick-off and information gathering including a site visit to each site; review meeting to discuss the conceptual layout; a draft PDR review meeting; and a final PDR meeting with IRWD.
15. Deliverables – Tetra Tech will provide ten (10) copies of handouts and minutes for each meeting, ten (10) copies of the “Draft PDR”, ten (10) copies of the “Final PDR”, and electronic copies of all documents.

## **Task 2 – Final Design**

Tetra Tech will address the following items in final design.

1. Construction Drawings – Tetra Tech will prepare civil, mechanical, structural, electrical and other drawings as needed for all scope of work items at the four (4) sites, including but not limited to: site plans; civil plans; mechanical plans; structural plans; electrical plans; instrumentation plans; and detail drawings.

A Preliminary Drawing list is provided at the end of the Scope of Services.

Tetra Tech will prepare detailed construction drawings in the latest version of AutoCAD using IRWD's title block. Each plan sheet shall be on IRWD's 24-inch x 36-inch sheet. The final AutoCAD electronic files shall be submitted to IRWD on compact disc. The final construction drawings shall be submitted as a single full-sized PDF (portable document format) file on a separate compact disc.



2. Project Manual – Tetra Tech will prepare a Project Manual in standard IRWD format, with an original set of bidding documents in 8-1/2-inch x 11-inch format. Computer files of the Project Manual shall be submitted to IRWD in the latest version of Microsoft Word on compact disc. The Project Manual shall also be submitted to IRWD as a single PDF file on a separate compact disc.
3. Final Design Deliverables – Deliverables shall be made as follows:
  - a. Submit ten (10) copies of the first (50%) submittal. This submittal shall include a draft set of plans for the entire project. Plans for the first submittal shall clearly show layouts of each component of the design such as civil, mechanical, structural, electrical/instrumentation, and detail sheets. The first submittal shall include all sections of the Project Manual including draft technical specification sections. The General Provisions do not need to be included. An engineer's estimate of probable construction cost shall be submitted with this submittal.
  - b. Submit ten (10) copies of the second (90%) submittal. Plans for the pre-final submittal shall clearly show layouts of each component of the design such as civil, mechanical, structural, electrical/instrumentation, and detail sheets. The pre-final submittal shall incorporate IRWD staff comments on the first submittal, as well as, any comments received in the 50% plan preview meeting. The General Provisions do not need to be included. An engineer's estimate of probable construction cost shall be updated for this submittal.
  - c. Submit ten (10) copies of the final (100%) submittal. This submittal shall include a final set of plans for the entire project. Plans for the final submittal shall clearly show layouts of each component of the design such as civil, mechanical, structural, electrical/instrumentation, and detail sheets. The final submittal shall incorporate IRWD staff comments on the 90% submittal, as well as, any comments received in the 90% plan preview meeting, if any. The General Provisions do not need to be included. An engineer's estimate of probable construction cost shall be updated for this submittal.
  - d. Submit stamped and signed reproducible plans (mylars), bond paper set of final plans and original signed Project Manual for IRWD signatures. Attend the meeting with IRWD signatures to explain the project and answer questions. An updated Engineer's estimate shall be submitted with the final plans and Project Manual.
4. Project Meetings – Conduct and attend project review meetings, including meeting minutes, with IRWD and other project team members. There will be a kick-off meeting, one meeting to preview the 50% plan, one meeting to preview the 90% plan, and one meeting to review the final 100% plan submittal, with IRWD. We have assumed a total of four (4) meetings.
5. Project Schedule – Tetra Tech will submit a project schedule with the draft design submittals and final design submittal for the construction project that reflects coordination items, date of completed plans, critical path issues, IRWD review times, and shop drawing approval, manufacturing and delivery times for long lead items.
6. Right-of-Way Legal Descriptions – IRWD will generate any legal descriptions, if required. Tetra Tech will provide the CAD files to prepare the legal description.
7. Permits – Tetra Tech will identify and obtain the required permits for the proposed project including City of Santa Ana encroachment permits and any others. Copies of completed permits shall be inserted in the Project Manual's Appendix.



8. **Liquidated Damages Calculations** – Tetra Tech will assist in calculating liquidated damages value for each construction project, should the contract time be exceeded. IRWD's standard liquidated damage calculation form will be used.
9. **Estimate of Probable Construction Cost** – Tetra Tech will provide an itemized construction cost estimate at each design deliverable submittal.
10. **Bid Period Assistance** – During the bidding period, Tetra Tech will assist with providing information and clarifications of bid documents to prospective bidders. We have assumed Tetra Tech will be required to prepare one (1) addendum for all prospective bidders.

### LIST OF CONSTRUCTION DRAWINGS

- Title Sheet
- Site Vicinity and Location Maps
- Drawing Index with General Notes, Abbreviations, Legends
- Well 11 Demolition Site Plan and Sections
- Well 15 Demolition Site Plan and Sections
- Well 11 and Well 15 Mechanical Demolition Plan and Sections (within buildings)
- Well 5 Site, Grading and Piping Plan
- Well 7 Site, Grading and Piping Plan
- Well 5 and Well 7 Piping Profiles
- Well 11 Site, Grading and Wall Plan and Sections
- Well 15 Site, Grading and Wall Plan and Sections
- Well 11 Piping Plan and Profiles
- Well 15 Piping Plan and Profiles
- Site Details (2 sheets)
- Well 5 Surge Tank Mechanical Plan and Section
- Well 7 Surge Tank Mechanical Plan and Section
- Well 5 and Well 7 Air Compressor Enclosure Plan, Section and Details
- Well 11 Surge Tank Mechanical Plan and Section
- Well 15 Surge Tank Mechanical Plan and Section
- Well 11 Mechanical Plan and Sections (within building)
- Well 15 Mechanical Plan and Sections (within building)
- Well 11 and Well 15 Sump Details and Piping Details
- Miscellaneous Mechanical Details
- General Structural Notes
- Structural Observation and Special Inspection
- Foundation Plans and Sections – Well 5 and Well 7
- Foundation Plans and Sections – Well 11 and Well 15
- Retaining Wall Sections and Details
- Structural Details
- General Electrical Notes and Electrical Standard Symbols and Abbreviations
- Electrical Site Plans and Conduit Plans (4 sheets – one sheet per site)
- Electrical Details
- Instrumentation Notes and Standard Symbols and Abbreviations
- P&ID Plans (4 sheets – one sheet per site)
- Instrumentation Details

**Total Number of Sheets = 42 sheets**



## PROJECT TEAM

The key for success on this project is the project team we have assigned and their relationship with IRWD as they have designed the last ten pump stations/wells for IRWD.

As with past assignments for IRWD, we propose to approach this assignment with a spirit of partnership with IRWD. This will enable us to combine the knowledge, ideas, and talents of IRWD's staff with our planning, design and construction experience to provide extraordinary results.

The following presentation introduces key members of our project team, all of whom have the knowledge, experience, and enthusiasm necessary to successfully complete your project. *It will be our collective goal to not only meet, but to exceed, your expectations.* The following paragraphs summarize the qualifications of our key project staff.

**Project Manager: Tom Epperson, P.E.** will be the Project Manager and will provide project oversight and ensure that the necessary resources are committed to Mike Tsoi in order to get the job done. Tom has over 32 years of experience and will provide his technical expertise to assist the design team in the areas of constructability, specifications, review and as-needed project management support. Tom and Mike have been working together for 15 years on similar pump station/wells and pipeline projects for IRWD.

**Task Manager: Mike Tsoi, P.E.** will provide the overall project direction and coordination, technical oversight, quality management and provide all day-to-day contact with IRWD staff. Mike has over 20 years of experience working on similar projects. He has previously worked with IRWD on the following past projects: IDP Pipeline, Irvine Desalter Wells, Shady Canyon Pump Station, and Tustin Zone 5 Pump Station and Transmission Main.

**Project Engineer: Laurence Esguerra, P.E.** will work directly with Tom and Mike and has over 10 years of experience. Laurence has previously worked with IRWD on the following past projects: Zone 1-3 Booster Pump Station, IDP Wells, Well 78 and Well 107, and IDP Conveyance Pipelines.

The above key team members are seasoned and have designed over 13 wells and 10 booster pump stations during the last ten years.

In order to provide the full range of services required for this project, we have added several subconsultants to our project team. Tetra Tech will be responsible for coordinating and integrating the efforts of each subconsultant. They will serve IRWD as subconsultants to Tetra Tech.

**Geotechnical Investigation:** Leighton Consulting (DIR Registration #: 1000007443)

**Potholing:** C-Below

We have included resumes of all of the staff in the Appendix.



**Tetra Tech Summary of Staff Experience**

Staff	Position and Location	Education	No. Years Exp.	California Registration	Availability/Commitment	No. of Wells/BPS	Projects	Project Duty
Tom Epperson	Senior Project Manager Irvine Office	B.S. Environmental Engineering	32	RCE No. 36399	25% / 15%	15/36	Well 78 and Well 107 IDP Wells South County Booster Pump Station Shady Canyon Zone B Coastal Booster Pump Station Modifications Tustin Zone 5 Booster Pump Station OCWD Burris Pump Station Orange New Santiago Pump Station	PM PM PM PM PM PM PM
Mike Tsoi	Project Engineer Irvine Office	B.S. Civil Engineering	19	RCE No. 53715	33% / 25%	13/8	Well 78 and Well 107 IDP Wells South County Booster Pump Station Shady Canyon Zone Booster Pump Station Coastal Booster Pump Station Modifications Tustin Zone 5 Booster Pump Station	PE PE PE PE PE
Laurence Esguerra	Project Engineer Irvine Office	B.S. Civil Engineering	10	RCE No. 73803	33% / 25%	6/12	IDP Wells Well 78 and Well 107 South County Booster Pump Station OCWD Burris Pump Station WBMWD Dominguez Booster Pump Station	PE PE PE PE PE
Mazen Kassar	Electrical Engineer Irvine Office	B.S. Electrical Engineering	22	EE No. 15809	20% / 15%	4/12	Recent IRWD Pump Stations/Wells	EE
David Kuang	Structural Engineer San Dimas Office	B.S. Architectural Engineering	23	RCE No. 47499 SE No. 3945	15% / 15%	N/A	Recent IRWD Buildings	SE



## PREVIOUS SIMILAR PROJECTS

### IRWD Design Experience

Members of our project team, Tom Epperson, Mike Tsoi and our structural/electrical/controls staff, have completed the following pump station/well building projects for IRWD during the last ten years:

**Pump Station/Well Projects** – Well 78, Well 107, and Well 115 Replacements; IDP Wellhead Facilities – Wells 76, 77, 110, and 107; IDP Principal Aquifer Plant, SGU Treatment Site and Wells ET-2 and 78; South County Zone 1-3 Booster Pump Station; Shady Canyon Zone B and Coastal RW Pump Station Modifications; and Tustin Zone 5 Booster Pump Station.

Therefore, our project team knows IRWD's design procedures and standards, electrical and P&ID standards, preferred materials, and operational preferences which will allow us to deliver a complete design in the most cost-effective manner.

### Surge Tank Facilities

During the last 10 years, our project team has been involved in the design of the following surge tank facilities:

**South County (Zone 1-3) Booster Pump Station** a 15,000 gallon surge tank with air compressor and controls in enclosure.

**Shady Canyon Zone B Booster Pump Station** an 11,750 gallon surge tank with air compressor and controls outside.

**Coastal Booster Pump Station Modifications** Zone A 3,000 gallon and Zone B 4,500 gallon surge tanks with compressor in pump station building.

**Tustin Zone 5 Booster Pump Station** suction 2,500 gallon and discharge 3,800 gallon surge tanks with compressor in pump station building.

**Well 77** a 700 gallon bladder surge tank.

**Burris Pump Station** for Orange County Water District: three (3) 36,000 gallon surge tanks with air compressor within pump station building. Contact: Orange County Water District: Chris Olsen, Assistant Director of Engineering, 714/378-3232

**New Santiago Booster Pump Station** for the City of Orange: two (2) 2,500 surge tanks with air compressor within pump station building. Contact: City of Orange: Sonny Tran, Senior Civil Engineer, 714/288-2497

**Dominguez Booster Pump Station** for West Basin Municipal Water District: 500 gallon bladder surge tank. Contact: West Basin Municipal Water District, 310/217-2411



**SUMMARY**

Client satisfaction is a major objective for Tetra Tech. This commitment to our clients has earned us the privilege of providing continuous services to all of our above listed references. We believe that our clients will attest to our technical excellence and responsive staff. We encourage you to contact our references to verify our past performance firsthand. However, we believe our best reference is IRWD. We are confident that our past projects with IRWD will attest to our technical excellence, responsive staff, and our complete understanding of every aspect of this project.

**SCHEDULE**

Tetra Tech thoroughly understands that meeting the proposed project schedule is one of the keys of making this project a success. The approach we have formulated and the team we have assembled are specifically geared toward this goal.

The time schedule presented below identifies a planning and design schedule that provides more than ample time to complete the tasks identified in our Scope of Services. In addition, our proposed timetable is flexible and can be easily modified to accommodate IRWD needs. Tetra Tech has reviewed the current and planned workload for our project team. They are available to immediately begin the work on this project. The following is a summary of our significant milestones:

<b>Milestone</b>	<b>Dates (assuming October 27, 2015 Award)</b>
Submit Draft PDR	December 15, 2015
Submit Final PDR	January 12, 2016
Submit 50% Plan Submittal	February 9, 2016
Return of IRWD Review Comments	February 23, 2016
Submit 90% Plan Submittal	March 22, 2016
Return of IRWD Review Comments	April 5, 2016
Submit Final 100% Plan Submittal	May 3, 2016

**BUDGET**

As requested in the RFP, Tetra Tech has included our budget proposal in a separate sealed envelope. Our budget proposal includes estimated hours per task, subconsultant costs, reproduction, and other direct costs.

**MISCELLANEOUS**

*Joint Venture* – No joint venture will be used on the project.

*Conflict of Interest* – Tetra Tech has no Conflicts of Interest on this project.

*Insurance* – Tetra Tech has insurance coverage in the limits required in the request for proposal. A copy of our insurance documentation is attached on the following page.

*Contract* – Tetra Tech has reviewed the sample IRWD contract and we have no proposed changes.

Irvine Ranch Water District  
Dyer Road Well Field Surge Tank Project

Fee Summary

Task Description								Fees		TOTALS
	Project Manager	Task Manager	Project Engineer	Design Engineer	CADD	Work Processor	Total Hours	Labor	Sub-Contractors Reimbursables	
<b>Project Management</b>										
A Bi-weekly E-mails (14)	0	14	0	0	0	0	14	\$2,240	\$0	\$2,240
B Monthly Reports (7)	2	6	0	0	0	0	8	\$1,560	\$0	\$1,560
C QA/QC	38	0	0	0	0	0	38	\$11,400	\$0	\$11,400
Reproduction/Message	0	0	0	0	0	0	0	\$0	\$0	\$0
<b>Subtotal</b>	<b>40</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60</b>	<b>\$15,200</b>	<b>\$0</b>	<b>\$15,200</b>
<b>1 Preliminary Design</b>										
1 Site Survey	0	0	36	48	0	0	84	\$12,000	\$0	\$12,000
2 Utility Review	0	2	0	12	16	0	30	\$3,960	\$13,200	\$17,160
3 Geotechnical Review	0	4	0	0	0	1	5	\$740	\$2,200	\$2,940
4 Geotechnical Investigation (Optional)	0	2	0	0	0	1	3	\$420	\$19,800	\$20,220
5 Conceptual Layout	0	8	0	16	32	0	56	\$7,520	\$0	\$7,520
Structural Support	4	0	16	24	16	4	64	\$9,360	\$0	\$9,360
6 Optional Cathodic Protection	0	4	4	8	4	2	22	\$3,040	\$5,500	\$8,540
7.8 Electrical Instrumentation	8	0	16	48	32	2	104	\$14,960	\$0	\$14,960
9 Right-of-Way	0	2	0	4	2	0	8	\$1,100	\$0	\$1,100
10 Permits	0	4	0	4	2	2	12	\$1,620	\$0	\$1,620
11 CEQA Documentation	0	4	8	6	8	0	20	\$4,000	\$0	\$4,000
12 Project Schedule	0	4	0	4	0	0	8	\$1,160	\$0	\$1,160
13 Estimate of Construction Costs	2	6	0	8	0	0	16	\$2,600	\$0	\$2,600
14 Meetings	4	8	0	0	0	2	14	\$2,680	\$0	\$2,680
15 Deliverables/ Draft & Final PDF	4	24	0	6	8	4	46	\$7,260	\$0	\$7,260
Reproduction/Message	0	0	0	0	0	0	0	\$0	\$680	\$680
<b>Subtotal</b>	<b>20</b>	<b>72</b>	<b>60</b>	<b>180</b>	<b>120</b>	<b>18</b>	<b>500</b>	<b>\$72,420</b>	<b>\$41,380</b>	<b>\$113,800</b>
<b>2 Final Design</b>										
1 Construction Drawings										
General Sheets (3 sheets)	0	2	4	16	20	0	42	\$5,640	\$0	\$5,640
Well 11 and 15 Demolition Plans (3 sheets)	0	4	6	12	24	0	46	\$6,200	\$0	\$6,200
Well 5&7 Site, Grading, Piping Plan (2 sheets)	0	4	8	12	16	0	40	\$5,560	\$0	\$5,560
Well 5 & 7 Piping Profiles	0	2	2	6	12	0	22	\$2,980	\$0	\$2,980
Well 11&15 Site, Grading & Well Plans (2 sheets)	2	6	10	16	28	0	62	\$8,880	\$0	\$8,880
Well 11&15 Piping Plan and Profiles (2 sheets)	0	2	4	8	16	0	30	\$4,080	\$0	\$4,080
Miscellaneous Civil Details (2 sheets)	0	2	4	8	20	0	34	\$4,600	\$0	\$4,600
Surge Tank Mech Plan & Sections (4 sheets)	0	4	8	16	32	0	60	\$8,160	\$0	\$8,160
Well 5&7 Compressor Enclosure	0	4	2	8	12	0	26	\$3,580	\$0	\$3,580
Well 11&15 Building Mech Plans (2 sheets)	0	2	4	8	16	0	30	\$4,080	\$0	\$4,080
Mec Mechanical Details (2 sheets)	0	2	4	8	16	0	30	\$4,080	\$0	\$4,080
Structural Details (6 sheets)	0	0	32	60	60	0	160	\$23,120	\$0	\$23,120
Electrical Plans (6 sheets)	0	0	18	80	100	0	206	\$28,680	\$0	\$28,680
Instrumentation Plans (6 sheets)	0	0	18	80	100	0	206	\$28,680	\$0	\$28,680
2 Project Manual	4	24	0	0	0	8	36	\$5,840	\$0	\$5,840
3 Design Deliverables	0	2	0	4	8	2	16	\$2,080	\$0	\$2,080
4 Project Meetings (4)	4	8	0	0	0	2	14	\$2,680	\$0	\$2,680
5 Project Schedule	0	2	2	0	0	0	4	\$640	\$0	\$640
6 Right-of-Way Legal Description	0	0	0	2	5	0	7	\$1,040	\$0	\$1,040
7 Permits	0	2	0	6	0	1	9	\$1,200	\$0	\$1,200
8 Liquidated Damages Calculations	0	2	0	0	0	0	2	\$320	\$0	\$320
9 Estimate of Construction Costs	2	6	0	0	0	0	8	\$1,560	\$0	\$1,560
10 I&I Assistance	4	8	4	0	4	1	21	\$3,740	\$0	\$3,740
Reproduction/Message	0	0	0	0	0	0	0	\$0	\$3,520	\$3,520
<b>Subtotal</b>	<b>40</b>	<b>88</b>	<b>130</b>	<b>350</b>	<b>400</b>	<b>14</b>	<b>1112</b>	<b>\$157,480</b>	<b>\$3,520</b>	<b>\$161,000</b>
<b>Total</b>	<b>100</b>	<b>180</b>	<b>210</b>	<b>540</b>	<b>610</b>	<b>32</b>	<b>1672</b>	<b>\$245,100</b>	<b>\$44,900</b>	<b>\$290,000</b>

November 23, 2015  
Prepared by: H. Cho/M. Cortez  
Submitted by: K. Burton  
Approved by: Paul Cook 

## ACTION CALENDAR

### DYER ROAD WELL FIELD WELL NO. 3 REHABILITATION CONSTRUCTION AWARD

#### SUMMARY:

The Dyer Road Well Field (DRWF) Well No. 3 Rehabilitation Project will rehabilitate the well to remove chemical and biological material from the well's louvers and restore its production capacity. Staff recommends that the Board:

- Authorize a budget increase in the amount of \$300,300, from \$401,500 to \$701,800, and
- Authorize the General Manager to execute a construction contract with General Pump Company in the amount of \$477,657 for the Dyer Road Well Field Well 3 Rehabilitation, Project 11672.

#### BACKGROUND:

The DRWF Well No. 3 was built in 1994 and is located on Emmett Street in a residential neighborhood in Santa Ana. A location map is attached as Exhibit "A". The well is 1,270 feet deep with four screened intervals, and its initial production capacity was 3,500 gallons per minute (gpm). Beginning in 1998 until September 2010, tetrachloroethylene or perchloroethylene (PCE), trichloroethylene (TCE), and perchlorate were periodically detected in the well water. In 1998, operation of the DRWF was modified, and Well No. 3 became the last well that would be put into production. DRWF operation would blend Well No. 3 water with water from the other wells so the concentrations in the well field composite sample would be below the maximum contaminant level. Since 1998, Well No. 3 has not produced water for potable use, but it remains an important well for IRWD in the event other District well(s) are not able to operate as planned. Well No. 3 has only been operated for quarterly sampling, capacity tests, and equipment tests.

Over time, the production capacity of Well No. 3 has decreased due to normal well degradation. In 2008, the production capacity was 1,900 gpm. Closed circuit television inspection of the well indicated that the louvers in the well were plugged with chemical precipitation and biological material. The last successful operation of Well No. 3 (to waste) occurred in June 2014 and subsequent attempts to start the well failed due to low water levels. The well requires rehabilitation at this time as the chemical precipitation and biological accumulation will continue, and well rehabilitation at a later date may not be successful.

#### Construction Award:

In May 2015, IRWD retained Richard C. Slade & Associates to provide design services for the well's rehabilitation. Richard C. Slade & Associates completed the rehabilitation design in September 2015, and the project was advertised for construction to a select list of five

contractors. The bid opening was held on October 21, 2015 with bids received from two contractors. The apparent low bidder was General Pump Company with a bid amount of \$477,657. The engineer's estimate was \$455,550. The second bid, received from Southwest Pump, was in the amount of \$507,704. General Pump Company recently completed the Wells ET-1 and ET-2 Rehabilitation project. The bid summary is attached as Exhibit "B".

FISCAL IMPACTS:

Project 11672 (4327) is included in the FY 2015-16 Capital Budget. Staff requests a budget increase as shown in the table below.

<u>Project No.</u>	<u>Current Budget</u>	<u>Addition &lt;Reduction&gt;</u>	<u>Total Budget</u>
11672 (4327)	\$401,500	\$300,300	\$701,800

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 for the project was filed with the Orange County Clerk/Recorder on May 29, 2015.

COMMITTEE STATUS:

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

RECOMMENDATION:

THAT THE BOARD AUTHORIZE A BUDGET INCREASE IN THE AMOUNT OF \$300,300, FROM \$401,500 TO \$701,800; AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH GENERAL PUMP COMPANY IN THE AMOUNT OF \$477,657 FOR THE DYER ROAD WELL FIELD WELL NO. 3 REHABILITATION, PROJECT 11672 (4327).

LIST OF EXHIBITS:

Exhibit "A" – Location Map

Exhibit "B" – Bid Summary

# EXHIBIT "A"

DRWF Well No. 3



# EXHIBIT "B"

Bid Opening: Wednesday, October 21, 2015 @ 2:00 p.m.

Irvine Ranch Water District Bid Summary For  
Dyer Road Wellfield Well #3 Rehabilitation  
PR 11672 (4327)

Entered By: J.K. Irey

Item No.	Description	Qty	Unit	Engineer's Estimate		1		2	
						General Pump Co.		Best Drilling & Pump	
				Price	Amount	Price	Amount	Price	Amount
							<b>496765/1000002769</b>	<b>826672/10000010674</b>	
							<b>San Dimas, CA</b>	<b>Colton, CA</b>	
1	Mobilization/Demobilization of pump rig, equipment and accessories. Prepare contract documents and other preliminary work and procure NPDES permit from RWQCB, Santa Ana Region.	1	LS	\$15,000.00	\$15,000.00	\$62,530.00	\$62,530.00	\$50,000.00	\$50,000.00
2	Install and maintain sound barriers (walls) and conduct other sound mitigation measures, as necessary	360	LF	\$130.00	\$46,800.00	\$20.00	\$7,200.00	\$37.50	\$13,500.00
3	Remove existing motor, discharge head, pump and all appurtenances and sound well. Deliver motor to IRWD facility for storage	1	LS	\$7,000.00	\$7,000.00	\$6,700.00	\$6,700.00	\$7,500.00	\$7,500.00
4	Brush well casing initially with nylon brush and bail sediment.	16	Hours	\$350.00	\$5,600.00	\$285.00	\$4,560.00	\$400.00	\$6,400.00
5	Perform Casing Inspection Thickness Measurement (CITM) survey of well casing.	1	LS	\$7,500.00	\$7,500.00	\$4,875.00	\$4,875.00	\$8,000.00	\$8,000.00
6A	Conduct initial well development using "air-jetting" methods.	1	LS	\$13,500.00	\$13,500.00	\$21,000.00	\$21,000.00	\$18,000.00	\$18,000.00
6B	Conduct initial well development using Sonar-jetting methods.	1	LS	\$10,000.00	\$10,000.00	\$3,950.00	\$3,950.00	\$7,000.00	\$7,000.00
6C	Conduct initial well development using "well-jetting" methods.	1	LS	\$25,000.00	\$25,000.00	\$17,500.00	\$17,500.00	\$21,000.00	\$21,000.00
7	Perform chemical treatment of well water using acids as specified.	1	LS	\$55,000.00	\$55,000.00	\$68,255.00	\$68,255.00	\$95,000.00	\$95,000.00
8	Perform mechanical development (airlifting and swabbing) of the well	98	Hours	\$500.00	\$49,000.00	\$495.00	\$48,510.00	\$460.00	\$45,080.00
9	Conduct treatment and discharge of mechanical development fluids via neutralization and blending and disposal of solids/sludges per specifications, including treatment and sampling for NPDES discharge compliance.	1	LS	\$20,000.00	\$20,000.00	\$25,260.00	\$25,260.00	\$15,000.00	\$15,000.00
10	Clear water column and provide downwell color video surveys of well casing.	4	Each	\$1,200.00*	\$4,800.00	\$1,100.00	\$4,400.00	\$1,200.00	\$4,800.00
11	Mobilize, install and demobilize a diesel or gas motor, temporary test pump and equipment and accessories	1	LS	\$25,000.00	\$25,000.00	\$43,500.00	\$43,500.00	\$16,000.00	\$16,000.00
12	Perform pumping development of the well including monitoring of water levels and measurement of sand content.	48	Hours	\$350.00	\$16,800.00	\$220.00	\$10,560.00	\$390.00	\$18,720.00
13A	Perform step drawdown test including monitoring of water levels and measurements of sand content.	12	Hours	\$350.00	\$4,200.00	\$220.00	\$2,640.00	\$390.00	\$4,680.00
13B	Perform 48-hour constant rate pumping (aquifer) test, including monitoring of water levels and measurement of sand content.	48	Hours	\$350.00	\$16,800.00	\$220.00	\$10,560.00	\$390.00	\$18,720.00
14	Perform flow meter (spinner) survey under dynamic (pumping) conditions	1	LS	\$5,000.00	\$5,000.00	\$3,482.00	\$3,482.00	\$5,000.00	\$5,000.00
15	Provide equipment to conduct depth-specific groundwater sampling. Sampling and analysis to be performed by the DISTRICT.	4	Per Sample	\$500.00	\$2,000.00	\$415.00	\$1,660.00	\$360.00	\$1,440.00
16	Mobilize, install and demobilize a diesel or gas motor, temporary test pump and two inflatable packers and equipment and accessories	1	LS	\$30,000.00*	\$30,000.00	\$38,700.00	\$38,700.00	\$30,000.00	\$30,000.00
17A	Perform 12-hour step drawdown test for each isolated perforation zone (as specified), including monitoring of water levels and measurements of sand content.	24	Hours	\$350.00*	\$8,400.00	\$220.00	\$5,280.00	\$390.00	\$9,360.00

Bid Opening: Wednesday, October 21, 2015 @ 2:00 p.m.

Irvine Ranch Water District Bid Summary For  
Dyer Road Wellfield Well #3 Rehabilitation  
PR 11672 (4327)

Entered By: J.K. Irey

Item No.	Description	Qty	Unit	Engineer's Estimate		1		2		
				Unit Price	Total Amount	General Pump Co.		Best Drilling & Pump		
						496765/1000002769		826672/10000010674		
						San Dimas, CA		Colton, CA		
						Unit Price	Total Amount	Unit Price	Total Amount	
17B	Perform 24-hour pumping tests for each isolated perforation zone (as specified), including monitoring of water levels and measurements of sand content.	96	Hours	\$350.00*	\$33,600.00	\$220.00	\$21,120.00	\$390.00	\$37,440.00	
18A	Clear water column and provide a final downwell video survey of the well casing.	1	LS	\$1,200.00	\$1,200.00	\$1,100.00	\$1,100.00	\$1,200.00	\$1,200.00	
18B	Perform spinner survey under static conditions.	1	LS	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00	\$3,000.00	\$3,000.00	
19	Conduct well disinfection and clean up site.	1	LS	\$7,500.00	\$7,500.00	\$2,500.00	\$2,500.00	\$7,500.00	\$7,500.00	
20	Standby time with Active rig and crew as directed by DISTRICT.	16	Hours	\$150.00	\$2,400.00	\$50.00	\$800.00	\$50.00	\$800.00	
21	Standby time with Inactive rig and crew as directed by DISTRICT.	16	Hours	\$125.00	\$2,000.00	\$50.00	\$800.00	\$50.00	\$800.00	
22	Repair sidewalk, landscaping, and repair existing irrigation facilities	1	LS	\$6,500.00	\$6,500.00	\$1,000.00	\$1,000.00	\$3,500.00	\$3,500.00	
23A	Obtain pump motor from District storage facility, deliver to site and install to 200 ft. Includes adapting column pipe to bowls and pump head.	1	LS	\$12,000.00	\$12,000.00	\$10,100.00	\$10,100.00	\$12,000.00	\$12,000.00	
23B	Furnish new sections of 12-inch diameter Schedule 40 pipe pump column with but threads.	22	Per 9-foot Joint	\$1,100.00	\$24,200.00	\$650.00	\$14,300.00	\$608.00	\$13,376.00	
23C	Furnish new section of 12-inch diameter Schedule 40 pipe pump column with but threads.	1	Per 4-foot Joint	\$500.00	\$500.00	\$385.00	\$385.00	\$360.00	\$360.00	
23D	Furnish new ASTM A582 Type 410L Stainless Steel shaft couplings.	22	Each	\$100.00	\$2,200.00	\$68.00	\$1,496.00	\$63.00	\$1,386.00	
23E	Furnish new Type 416L hardened Stainless Steel line shaft, 2.1875" dia., by 9 ft length.	22	Each	\$200.00	\$4,400.00	\$498.00	\$10,956.00	\$545.00	\$11,990.00	
23F	Furnish new Type 416L hardened Stainless Steel line shaft, 2.1875" dia., by 4 ft length.	1	Each	\$100.00	\$100.00	\$292.00	\$292.00	\$320.00	\$320.00	
23G	Furnish new line shaft SAE 40 bronze cutlets, rubber backed bearing retainers.	22	Each	\$50.00	\$1,100.00	\$228.00	\$5,016.00	\$281.00	\$6,182.00	
23H	Furnish 2 new pieces of Type 416L, hardened Stainless Steel head shaft, 2.1875" by 50" and 2.1875 by 67" long equipped with couplings above box.	1	LS	\$750.00	\$750.00	\$1,225.00	\$1,225.00	\$1,200.00	\$1,200.00	
23I	Furnish new pre-lube fittings and connection to discharge head.	1	LS	\$200.00	\$200.00	\$125.00	\$125.00	\$800.00	\$800.00	
23J	Furnish leakage collection receptacle and re-attach into existing steel drain line.	1	LS	\$500.00	\$500.00	\$100.00	\$100.00	\$500.00	\$500.00	
23K	Re-establish wiring and connection of permanent pump to DISTRICT electrical system, in the presence of DISTRICT electrician and conduct testing of the permanent pump for a period of 7 consecutive days.	1	LS	\$3,000.00*	\$3,000.00	\$1,420.00	\$1,420.00	\$750.00	\$750.00	
23L	Allowance for additional costs for parts and/or materials during replacement of permanent	1	LS	\$5,000.00*	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	
23M	Provide for vibration monitoring and testing of permanent pump.	1	LS	\$6,000.00*	\$6,000.00	\$3,300.00	\$3,300.00	\$4,400.00	\$4,400.00	
<b>TOTAL AMOUNT OF BID</b>						<b>\$455,550.00</b>		<b>\$477,657.00</b>		<b>\$507,704.00</b>
*Line Item Unit Prices Corrected for Math and Entry Errors on Engineers Estimate						<b>Manufacturers:</b>		<b>Manufacturers:</b>		
						None Listed		None Listed		
						<b>Subcontractors:</b>		<b>Subcontractors:</b>		
						None Listed		Well Jet (909458): Water Jetting		