

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

**September 24, 2012**

**PLEDGE OF ALLEGIANCE**

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

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

**NOTICE**

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

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**COMMUNICATIONS TO THE BOARD**

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1.    A. Written:
- B. Oral: Mrs. Joan Irvine Smith relative to the Dyer Road Wellfield.

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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**CONSENT CALENDAR**

**Resolution No. 2012-40**

**Items 3-7**

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3.    **MINUTES OF REGULAR BOARD MEETING**

Recommendation: That the minutes of the September 10, 2012 Regular Board Meeting be approved as presented.

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

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

<b>CONSENT CALENDAR - Continued</b>	<b>Resolution No. 2012-40</b>	<b>Items 3-7</b>
5. <u>DISTRICT STRATEGIC MEASURES DASHBOARD</u>	Recommendation: That the Board receive and file the Strategic Measures Dashboard and Information items.	
6. <u>AUGUST 2012 FINANCIAL REPORTS</u>	Recommendation: That the Board receive and file the Treasurer's Investment Summary Report and the Monthly Interest Rate Swap Summary for August 2012; approve the August 2012 Summary of Payroll ACH payments in the total amount of \$1,363,244.60, and approve the August 2012 Accounts Payable Disbursement Summary of Warrants Nos. 331996 through 332971, workers' compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$20,589,023.20.	
7. <u>REIMBURSEMENT AGREEMENT WITH SHEA BAKER RANCH ASSOCIATES</u>	Recommendation: That the Board authorize the General Manager to execute a Reimbursement Agreement with Shea Baker Ranch Associates for the construction of capital facilities for a total estimated cost of \$647,900.	
<b>OTHER BUSINESS</b>		
8. <u>CLOSED SESSION</u>	CONFERENCE WITH LABOR NEGOTIATORS - Government Code Section 54957.6. Agency Designated Representatives: Paul Cook, Janet Wells, Jim Payne and Jim Moss. Employee Organization: Irvine Ranch Water District Employees Association	
<u>OPEN SESSION</u>		
<b>ACTION CALENDAR</b>		
9. <u>MEMORANDUM OF UNDERSTANDING WITH THE IRVINE RANCH WATER DISTRICT EMPLOYEES ASSOCIATION</u>	Recommendation: That the Board authorize the General Manager to execute the Memorandum of Understanding between Irvine Ranch Water District and the Irvine Ranch Water District Employees Association (IRWDEA), subject to non-substantive changes.	

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**ACTION CALENDAR - Continued**

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10. FINAL RESOLUTION TO AMEND CALPERS CONTRACT

Recommendation: That the Board adopt a final resolution to approve an Amendment to Contract between the Board of Administration California Public Employees Retirement System (CalPERS) and the Board of Directors of Irvine Ranch Water District.

Reso No. 2012-

11. 2013 MEDICAL INSURANCE COVERAGE RENEWAL

Recommendation: That the Board authorize the continuance of the District's health care coverage with CalPERS for the calendar year 2013 and approve changes in employee contribution levels as recommended.

12. ON-CALL CONSTRUCTION INSPECTION SERVICES

Recommendation: That the Board authorize the General Manager to execute a Professional Services Agreement with AndersonPenna in the amount of \$400,000 for on-call construction inspection services.

13. POTABLE WATER SYSTEM HYDRAULIC MODEL CONSULTANT SELECTION

Recommendation: That the Board authorize a budget increase to the FY 2012-13 Capital Budget for project 11384 (1095) by \$66,000, from \$401,500 to \$467,500; approve an Expenditure Authorization in the amount of \$467,500 for project 11384 (1095); and authorize the General Manager to execute a Professional Services Agreement with AKM Consulting Engineers in the amount of \$359,690 for development of the potable water system hydraulic model, project 11384 (1095).

14. WELLS 21 AND 22 DESALTER CONTRACT CHANGE ORDER

Recommendation: That the Board approve an Expenditure Authorization in the amount of \$1,659,600 and approve Contract Change Order No. 17 in the amount of \$302,496 to Pascal & Ludwig Constructors for the Wells 21 and 22 Desalter, project 10286 (1081).

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**OTHER BUSINESS - Continued**

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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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15. A. General Manager's Report

B. Directors' Comments

C. CLOSED SESSION: Conference with Legal Counsel – ANTICIPATED LITIGATION – Government Code Section 54956.9 (b) - (1) significant exposure to litigation concerning a claim filed by Lisa and Shawn Williams on behalf of themselves and a class of similarly situated homeowners against IRWD under the Government Tort Claims Act, on file with the District (one potential case)

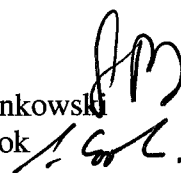
D. Adjourn

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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.

September 24, 2012  
Prepared and  
Submitted by: L. Bonkowski  
Approved by: P. Cook



CONSENT CALENDAR

MINUTES OF REGULAR BOARD MEETING

SUMMARY:

Provided are the minutes of the September 10, 2012 Regular Board meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE SEPTEMBER 10, 2012 REGULAR BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" – Minutes



## EXHIBIT "A"

### MINUTES OF REGULAR MEETING – SEPTEMBER 10, 2012

The regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 5:00 p.m. by President Matheis on September 10, 2012 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Matheis, LaMar, Swan, and Withers

Directors Absent: Reinhart

Also Present: General Manager Cook, Acting Director of Finance/Treasurer Jacobson, Executive Director of Operations Pedersen, Executive Director of Engineering Burton, Executive Director of Water Policy Heiertz, Director of Human Resources Wells, Director of Administrative Services Mossbarger, Secretary Bonkowski, Legal Counsel Arneson, Mr. Jim Reed, Mr. Bruce Newell, Mr. John Dayer, Ms. Kirsten McLaughlin, Mr. Wayne Clark, Mr. Don Chadd, and other members of the public and staff.

WRITTEN COMMUNICATION: None.

#### ORAL COMMUNICATION:

Mr. Don Chadd reported that he is a candidate for the open Board of Director position for Division 6 on the MWDOC's Board, and if elected in November, is planning to attend future IRWD Board meetings.

Mrs. Joan Irvine Smith's assistant addressed the Board of Directors with respect to the Dyer Road wellfield. She said it was her understanding that currently wells 2, 4, 5, 7, C-8, C-9, 10, 12, 15, 16 and 17 will operate in accordance with the District's annual pumping plan. Wells 1, 3, 6, 11, 13, and 14 will be off. This was confirmed by Mr. Cook, General Manager of the District.

With respect to the OCWD annexation of certain IRWD lands, on June 5, 2009, IRWD received a letter from OCWD noting that OCWD has completed the formal responses to comments they previously received on the draft program Environmental Impact Report. The letter further noted that with this task completed, OCWD has exercised its right to terminate the 2004 Memorandum of Understanding (MOU) regarding annexation. OCWD also indicated that due to the lack of progress on the annexation issue, the draft program Environmental Impact Report will not be completed. On June 8, 2009, OCWD completed the Long-Term Facilities Plan which was received and filed by the OCWD Board in July 2009. Staff has been coordinating with the City of Anaheim (Anaheim) and Yorba Linda Water District (YLWD) on their most recent annexation requests and has reinitiated the annexation process with OCWD. IRWD, YLWD and Anaheim have negotiated a joint MOU with OCWD to process and conduct environmental analysis of the annexation requests. The MOU was approved by the OCWD Board on July 21, 2010. This was confirmed by Mr. Cook.

With respect to the Groundwater Emergency Service Plan, IRWD has an agreement in place with various south Orange County water agencies, MWDOC and OCWD, to produce additional

groundwater for use within IRWD and transfer imported water from IRWD to south Orange County in case of emergencies. IRWD has approved the operating agreement with certain south Orange County water agencies to fund the interconnection facilities needed to affect the emergency transfer of water. MWDOC and OCWD have also both approved the operating agreement. This was confirmed by Mr. Cook.

CONSENT CALENDAR

General Manager Cook provided a correction on item No. 5 noting that the President and Secretary will execute the amendment on the Settlement Agreement for the El Toro Groundwater Remediation project as has been the practice on previous amendments. There being no objection, on MOTION by Swan, seconded and unanimously carried, CONSENT CALENDAR ITEMS 3 THROUGH 5 WERE APPROVED AS FOLLOWS:

3. MINUTES OF BOARD MEETING

Recommendation: That the minutes of the August 27, 2012 Regular Board Meeting be approved as presented.

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

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

5. EL TORO GROUNDWATER REMEDIATION PROJECT EXECUTION OF THIRD SETTLEMENT AGREEMENT AMENDMENT

Recommendation: That the Board authorize the President and Secretary to execute the Third Amendment to the Settlement Agreement for the El Toro Groundwater Remediation project.

ACTION CALENDAR

INFORMATION TECHNOLOGY SERVICES ASSESSMENT FINDINGS, RECOMMENDATIONS, AND PROPOSED BUDGETED POSITION ADDITIONS AND CHANGES

General Manager Cook reported that in May 2010, the Board authorized the procurement of Enterprise Resource Planning (ERP) system licenses from Oracle for the replacement of the District's aged financial management and human resources systems. Mr. Cook said that based on the changes that have occurred with the implementation of Oracle technology, and the anticipated investments in utility billing and maintenance management applications, staff determined that an assessment of the information technology service delivery and staffing is needed. He said that the objective of the assessment is to provide the District with a clear definition of the staffing and skill level required to support a level of service that maximizes the return on its information technology investment. In March 2012, staff recommended that the



District retain a consultant to conduct an Information Technology (IT) Assessment, with an emphasis on the District's evolving Oracle technical environment as well as anticipated investments in utility billing and enterprise asset management applications.

Using a PowerPoint presentation, Director of Administrative Services Mossbarger provided an overview of the Information Technology Services Assessment findings by Pacific Technologies, Inc. (PTI) which included an assessment on the IT staffing levels, skills, and service delivery structure. Mr. Mossbarger reported that PTI's findings are that the District is not well positioned to support the shift to a packaged software environment; the District is understaffed and is missing some of the skills required to support its targeted, commercial off-the-shelf (COTS) software architecture; and there is a lack of District-wide IT governance. He said that its recommendation include adding three full-time employees over time to support District software applications; developing a detailed succession plan and training, recruiting and/or contracting personnel to fill IT skill gaps; establishing an IT service desk supported by modern help desk automation; introducing a more structured approach – without imposing more overhead – to IT governance at the District; and adding information technology as a quarterly agenda item for the District's senior staff meetings and utilizing this forum to address key decisions (e.g., scope boundaries for the new EAM) and policy setting (e.g., adoption of cloud-based technologies).

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on September 4, 2012. Director Withers suggested that a future item be submitted to the Finance and Personnel Committee relative to key milestones as well as a listing of accomplishments. On MOTION by Swan, seconded and unanimously carried, **THE BOARD APPROVED THE ADDITION OF THREE FULL-TIME REGULAR POSITIONS, TWO POSITION UPGRADES, AND ONE TITLE CHANGE; AUTHORIZED AN INCREASE OF \$291,000 FOR SALARY AND BENEFITS TO THE CURRENT FISCAL YEAR 2012-13 OPERATING BUDGET; AND ADOPTED THE FOLLOWING RESOLUTION BY TITLE:**

RESOLUTION NO. 2012- 38

**RESOLUTION OF THE BOARD OF DIRECTORS  
OF IRVINE RANCH WATER DISTRICT,  
RESCINDING RESOLUTION NO. 2012-22 AND  
ESTABLISHING A REVISED SCHEDULE OF POSITIONS  
AND SALARY RATE RANGES**

ENTERPRISE RESOURCES PLANNING SYSTEM IMPLEMENTATION UPDATE,  
CONSULTANT VARIANCE AND EXPENDITURE AUTHORIZATION APPROVALS

General Manager Cook reported that the District is currently operating the first wave of implementation of the Oracle Enterprise Resource Planning (ERP) software which focuses on financial management and human resources as well as the second wave which focuses on payroll, employee self-service and benefits administration. Mr. Cook said that the ERP system is now functioning on a transactional basis and that it has resolved many stabilization issues and continues to work toward optimization through business intelligence and reporting capabilities to achieve the District's expected results.

Assistant Controller Smithson reported that AST Corporation is the system's implementation consultant engaged by the District in August 2010 to design and implement Waves 1 and 2 in the sum of \$3,425,440. In February 2011, the Board approved Variance No. 1 in the sum of \$401,874 to implement hardware and software to ensure high-availability of the ERP system so that system users would not be impacted by a computer failure as well as a comprehensive data protection, data availability, and disaster recovery solution for the Oracle database. In November 2011 the Board approved a second variance in the sum of \$486,500 to provide additional Waves 1 and 2 stabilization services working with District staff and Oracle on various transactional items as well as the design and implementation of additional data elements and dashboard reporting for the Oracle Business Intelligence system which will ultimately become the primary source of reporting on financial and other data.

Mr. Smithson said that the District currently requires variances to both existing AST contracts for additional services which include: 1) Variance No. 2 in the sum of \$84,000 for Remote Managed Services will provide additional resources to resolve Oracle application and database issues as well as working with the staff to achieve consistent database optimization; and 2) Variance No. 3 in the total sum of \$136,000 for implementation services to provide additional Wave 1 and Wave 2 stabilization services to work with staff and Oracle on various transactional items; and.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on September 4, 2012. On MOTION by Swan, seconded and unanimously carried, THE BOARD APPROVED VARIANCE NO. 2 WITH AST CORPORATION FOR ITS REMOTE MANAGED SERVICES CONTRACT IN THE AMOUNT OF UP TO \$84,400; APPROVED VARIANCE NO. 3 WITH AST CORPORATION FOR IMPLEMENTATION SERVICES IN THE AMOUNT OF UP TO \$136,100; APPROVED EXPENDITURE AUTHORIZATIONS FOR PROJECTS 1278 AND 1660, IN THE SUM OF \$110,000 EACH; AND APPROVED ADDITIONS TO THE FY 2012-13 CAPITAL BUDGET FOR PROJECTS 1278 AND 1660, IN THE SUM OF \$110,000 EACH.

#### REVISED PERSONNEL POLICIES AND PROCEDURES

General Manager Cook reported that staff has developed the Personnel Policies and Procedures to consistently address personnel-related issues at the District. Mr. Cook said that to keep current with state and federal law, implement best practices in administering Human Resource policies, and correctly reflect practices in conducting District business, it is necessary to update these policies periodically. He said that staff recommends that the Board adopt a resolution establishing revised personnel policies and rescinding Resolution No. 2011-28 dated September 12, 2011 which includes changes to the following policies: Policy No. 2 – General Policies; Policy No. 8 – Salary; Policy No. 18 – Vacation; Policy No. 33 – Injury and Illness Prevention Program; Policy No. 34 – Employee Personal Computer Purchase Plan; Policy No. 36 – Performance Recognition Program; Policy No. 37 – Commuter Trip Reduction (Ridesharing) Plan; Policy No. 38 – Safety Shoe and Prescription Safety Eyewear; Policy No. 41 – Flexible Advantage Plan; and Policy No. 45 – Conflict of Interest.

Mr. Cook said the revision to Policy No. 36 – Performance Recognition Program is included in this resolution revising the above-mentioned policies which has been the subject of multiple discussions at past Board and Finance and Personnel Committee meetings. New language is being proposed for Policy No. 36 to clarify how this policy is administered by staff.

Director Swan reported that this item was reviewed by the Finance and Personnel Committee on September 4, 2012 and that all of the policies were recommended for the Board’s approval with the exception of Policy No. 36 - Performance Recognition Awards. He provided an overview of how he would like to see the policy managed with oversight by the Board prior to distribution before the end of the fiscal year or that no single award exceed \$1,000. Director LaMar reported that there was a discussion at the Committee meeting and he believes it is the Board’s role to set policy with the General Manager distributing the awards accordingly. Director Withers concurred with Director LaMar’s position. Following discussion, and on MOTION by LaMar, seconded and carried (LaMar, Matheis, and Withers voting aye, Swan voting no but stated that he supported all of the policies with the exception of Policy No. 36, and Reinhart absent), THE BOARD ADOPTED THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012-39

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH  
WATER DISTRICT, RESCINDING RESOLUTION NO. 2011-28  
AND ESTABLISHING REVISED PERSONNEL POLICIES  
(FOR POLICY NOS. 2, 8, 18, 33, 34, 36, 37, 38, 41, AND 45)

ESTABLISHING CONNECTION FEES IN IMPROVEMENT DISTRICTS 184/284

General Manager Cook reported that the District will need to establish and adopt a connection fee for redevelopment in Improvement Districts (IDs) 184/284 for a commercial development that will be converting to a residential development in the Foothill Ranch area (Project).

Assistant Controller Smithson reported that a property owner within IDs 184/284 is converting the property from a commercial to a residential development and has requested a connection fee for this redevelopment which represents a credit for the initial connection fee paid and addresses the increased demands identified in the development. Mr. Smithson said that the Foothill Ranch development is unique in that an agreement was executed in 1988 with the District that provided for the developer to pay 50% of the “Project” cost as identified in the Plan of Works. The agreement also called for 50% of any remaining funds to be returned to the developer 30 days after acceptance by IRWD of all components of the Project. In February 2002, an agreement was reached with the Foothill Ranch company that reimbursed the developer \$800,000 and entitled the District to utilize the collection of connection fees, user rates, standby or acreage assessments and any other fees or charges permitted by law to provide funding for future capital costs. The reimbursement utilized the cash runs to identify fund balances at ultimate development to identify a sharing of the remaining balance.

The District has previously had redevelopment conversions from commercial to residential in other IDs. When proof of the initial connection fee was available, credit for the demands already

funded was taken into consideration. Because these IDs are unique, staff recommends establishing a connection fee for the commercial IDs of the Foothill Ranch development.

Mr. Smithson reviewed factors that play a significant role in the generation of the proposed residential redevelopment rate in IDs 184/284. Because the connection fee was for the Project, the contribution will be allocated to all parcels based on their demand requirements.

Director Swan reported that this item was presented to the Finance and Personnel Committee on September 4, 2012. Following an inquiry by Director Swan relative to regional allocations, on MOTION by Swan, seconded by LaMar, THIS ITEM IS CONTINUED FOR DISCUSSION AT THE OCTOBER 2, 2012 FINANCE AND PERSONNEL COMMITTEE.

OPERATIONS CENTER CHILLER REPLACEMENT – EXPENDITURE AUTHORIZATIONS AND CONSTRUCTION AWARD

Executive Director of Operations Pedersen reported that the 18 year-old chiller unit for the Operations Center is nearing the end of its service life as it has suffered numerous refrigerant leaks on three of the four integrated compressors, and multiple repairs have been required on the two copper inlet supply lines and the heat exchanger tubing. Mr. Pedersen said that the proposed replacement chiller increases the building's cooling capacity to 170 tons, and substitutes two modern energy efficient screw compressors for the existing four reciprocating compressors which will result in an energy savings of 633 kilowatt-hours per year. In addition, the replacement chiller will qualify for a one-time rebate of \$2,700 from the Southern California Edison Business Solutions Program.

Mr. Pedersen said that staff invited four contractors with suitable heating, ventilation and air conditioning experience to submit bids for the project. Three contractors submitted bids: Ram Air Engineering, Inc., Mesa Energy Systems, Inc. and Air Control Systems, Inc. The apparent low bidder is Air Control Systems, Inc. with a bid of \$205,800. Air Control Systems, Inc. has 34 years of experience handling heat, ventilation and air conditioning projects and is well qualified for the project. On MOTION by LaMar, seconded and unanimously carried, THE BOARD APPROVED EXPENDITURE AUTHORIZATIONS IN THE AMOUNTS OF \$114,600 FOR PROJECT 11588 (1316), \$109,600 FOR PROJECT 21588 (1499) AND \$25,000 FOR PROJECT 31588 (1319) AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH AIR CONTROL SYSTEMS, INC. IN THE AMOUNT OF \$205,800 FOR THE OPERATIONS CENTER CHILLER REPLACEMENT PROJECTS 11588 (1316), 21588 (1499) AND 31588 (1319).

GENERAL MANAGER'S REPORT

General Manager Cook reported that as mentioned in last week's Weekly Report to the Board, the alternative IRWD Logo design which was trademarked in 2007 will be expiring soon, and staff will forego reregistering it.

Mr. Cook reminded the Board of the upcoming September 21, 2012 Strategic Planning Workshop.

He further said that he will be traveling to Bakersfield with staff on Wednesday relative to groundwater recharge matters.

#### DIRECTORS' COMMENTS

Director LaMar reported on his attendance at a recent MWDOC Board meeting with an update by Mr. Jeff Kightlinger on the Bay Delta as well as a WACO meeting.

Director Swan reported on his attendance at a WACO meeting. He further reported on his attendance at a MWDOC/OCWD Joint Committee meeting and noted discussion on the Bay Delta Conservation Plan.

Director Matheis said she is looking forward to attending the upcoming CSDA conference in San Diego this month.

#### CLOSED SESSION

President Matheis said that a Closed Session will be held as follows:

CONFERENCE WITH LABOR NEGOTIATORS – Government Section 54957.6.  
Agency Designated Representatives: Paul Cook, Janet Wells, Jim Moss and Jim Payne.  
Employee Organization: Irvine Ranch Water District Employees Association

#### OPEN SESSION

Following the Closed Session, the meeting was reconvened with Directors Swan, LaMar, and Matheis present (Director Withers left at 7:00 p.m.) and Reinhart absent. No action was reported.

#### ADJOURNMENT

President Matheis adjourned the meeting.

Approved and signed this 24th day of September, 2012.

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President, IRVINE RANCH WATER DISTRICT

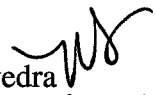

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Secretary, IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

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Legal Counsel - Bowie, Arneson, Wiles and Giannone

September 24, 2012  
Prepared and  
Submitted by: N. Savedra   
Approved by: P. Cook 

CONSENT CALENDAR

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

SUMMARY:

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

Events/Meetings

Steven LaMar

10/11/12 CORO Los Angeles-4<sup>th</sup> Annual Water Conference  
10/26/12 CUWA/CMUA Urban Water Forum, Sacramento, CA  
11/02/12 NWRI The Clarke Prize Conference

Mary Aileen Matheis

9/18/12 Monthly meeting with Paul Cook regarding District activities  
11/02/12 NWRI The Clarke Prize Conference  
10/29-30/12 CalDesal Annual Desalination Conference, Irvine, CA  
12/12-14/12 CRWUA Annual Conference

Douglas Reinhart


9/19/12 ACWA Regions 8, 9 & 10 Briefing, Irvine, CA  
9/26/12 Nine South County Agencies Meeting at Moulton Niguel Water District  
10/29-30/12 CalDesal Annual Desalination Conference, Irvine, CA  
12/12-14/12 CRWUA Annual Conference

Peer Swan

9/25/12 ACWA Integrated Water Management Planning Session, Sacramento  
9/26/12 MWD-Southern California Water Dialogue Meeting  
10/19/12 ACWA Region 9 & 10 Joint Program Seminar  
12/12-14/12 CRWUA Annual Conference

John Withers

10/11/12 CORO Los Angeles-4<sup>th</sup> Annual Water Conference  
10/19/12 ACWA Region 9 & 10 Joint Program Seminar  
11/02/12 NWRI The Clarke Prize Conference

September 24, 2012  
Prepared and Submitted by: Various  
Approved by: Paul Cook 

## CONSENT CALENDAR

### DISTRICT STRATEGIC MEASURES DASHBOARD

#### SUMMARY:

Provided as Exhibits "A", "B", and "C" are the Strategic Measures Dashboard and informational items for Board review.

#### RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE STRATEGIC MEASURES DASHBOARD AND INFORMATION ITEMS.

#### EXHIBITS:

Exhibit "A" - Strategic Measures Dashboard

Exhibit "B" - Dyer Road Wellfield Status

Exhibit "C" - Reservoir Data





**IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES DASHBOARD**

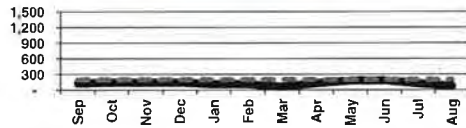
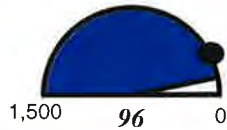
Exhibit "A"

**August 2012**

**Note: The more blue area displayed on the dial, the more favorable the measure.**

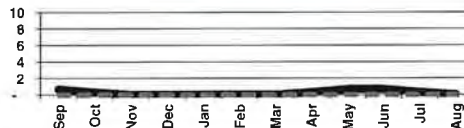
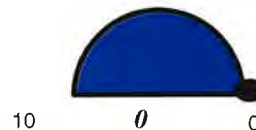
**Reliability-Potable/Nonpotable**

Target = 200 customer hours out of service this month



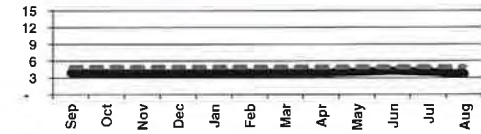
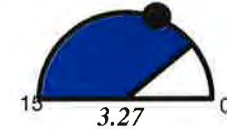
**Sewer Spills**

Target = 0 Spills this month



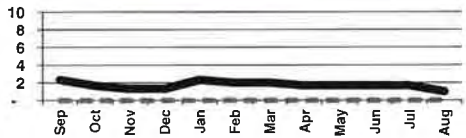
**OCSD CORF Flows**

Target = 4.95 MGD  
CORF flow to OCSD this month



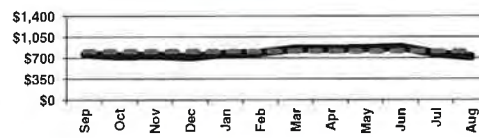
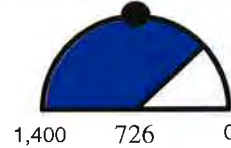
**OSHA Recordables**

Target = 0 reportable accidents this month



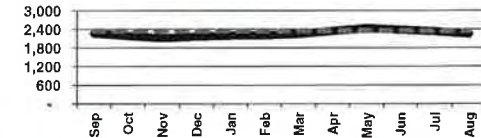
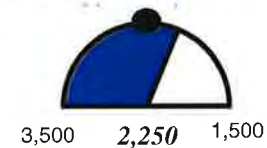
**Water System Cost--Potable**

Target = \$812/af delivered



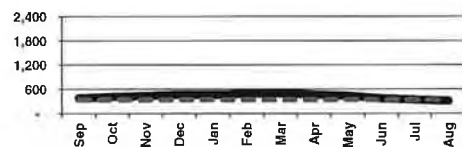
**Wastewater Cost**

Target = \$2,435/MG processed



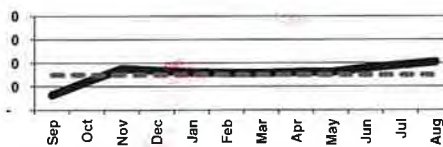
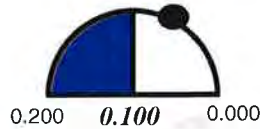
**Water System Cost--Nonpotable**

Target = \$339/ac-ft delivered this month



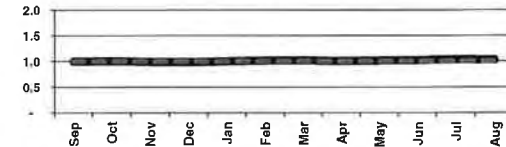
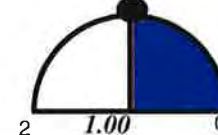
**MWRP Energy Cost per kwh**

Target = .0792 cost per kWh this month



**Enterprise Return**

Target = 1.0 (net income/goal) last month



● Target shown on gauge  
00.00 Figure for Current Month

Target shown on trend graph  
3-month rolling average

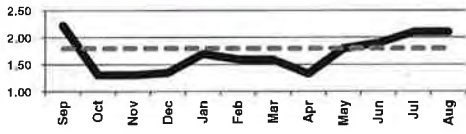
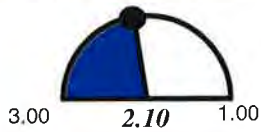
**IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES DASHBOARD**

**August 2012**

**Note: The more blue area displayed on the dial, the more favorable the measure.**

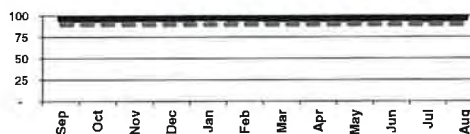
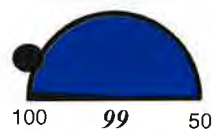
**Overhead Ratio**

Target = 1.90 (G&A expenses/  
direct labor) this month



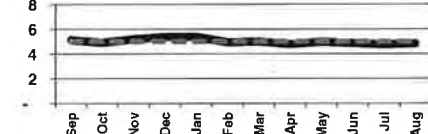
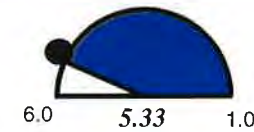
**Customer Satisfaction**

Target = 90% satisfaction  
this month



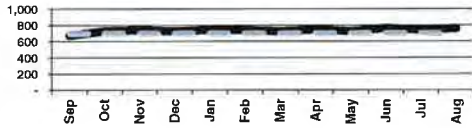
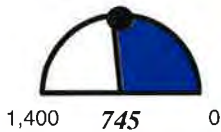
**Employee Satisfaction**

Target = 5.0 score  
this month



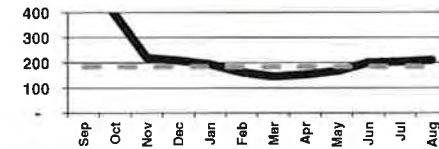
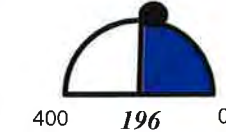
**DATS Well Production**

Target = 700 Acre Feet  
per month



**IDP Treated Water**

Target = 185 Acre Feet  
this month



● Target shown on gauge  
00.00 Figure for Current Month



Target shown on trend graph  
3-month rolling average

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Reliability-Potable/Nonpotable***

**MONTHLY STATUS REPORT**

Metric Owner: Water Ops

Definition of Measure:

The relative magnitude of system outages due to failures or scheduled maintenance for Potable and Non Potable Water.

Method:

Summation of the time any part of the system was out of service times the number of customers affected by the given outage during the month.

Data Collection

Data was derived from the CSR database for customer based reports of "no water" and from the work order database for scheduled maintenance requiring the shut down of water service during repairs.

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	176.90		<i>Thru:</i> August 2012
October 2011	130.00		<i>Goal:</i> 200.00
November 2011	114.50		
December 2011	197.10		
January 2012	35.42		
February 2012	98.10		
March 2012	65.10		
April 2012	231.20		
May 2012	252.60		
June 2012	66.30		
July 2012	62.80		
August 2012	96.30		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

*Sewer Spills*

**MONTHLY STATUS REPORT**

Metric Owner: Gregory Springman

Collection System Manager

Definition of Measure:

Number of sewer overflows of any quantity, regardless of cause, in IRWD's sanitary sewer collection system. This does not include spills from private sewers within IRWD's service area. IRWD has no control over private spills and is not responsible for them. However, it should be noted that IRWD will assist the County Health Care Agency in responding to and cleaning up private spills in the interest of the community.

Method:

Total number of IRWD sewer spills

Data Collection

Data is obtained from the California State Water Boards CIWQS data base for reporting SSO's.

Current Issues

1. April, 2012-Newport Coast Marriott, blockage occurred in a sewer easement due to root intrusion. 50 gals SSO with 50 gals of wastewater released into the environment. All wastewater spilled soaked into the grass covered easement.
2. May, 2012 - MWRP North interceptor trunk sewer main break caused by pile driving activities during MWRP expansion. The break occurred on the 48" VCP trunk sewer main. 9,425 gals SSO with 9,425 gals of wastewater contained and recovered.

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	0		<i>Thru:</i> August 2012
October 2011	0		<i>Goal:</i> 0
November 2011	0		
December 2011	0		
January 2012	0		
February 2012	0		
March 2012	0		
April 2012	1.00		
May 2012	1.00		
June 2012	0		
July 2012	0		
August 2012	0		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***OCSD CORF Flows***

**MONTHLY STATUS REPORT**

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Estimated CORF flow for current FY. CORF flow ownership as of the end of FY 2009/2010 was 8.62 MGD.

Method:

IRWD's CORF flow is derived by using the actual Main Street Flume Meter flow and subtracting the MWRP biosolid discharge flow and all non Revenue Area 14 (IRWD) flows tributary to the Main Street Flume meter/MWRP and adding in the San Joaquin Hills Planned Community flow and flow discharges from the Gas Recovery System (Formerly Laidlaw) for the FY four calendar months with the highest flow totals multiplied by three, averaging the result thereof with the same result of the same calculation for the preceding two fiscal years and adding in the current IBC transfer flow.

Note: All of the Newport Coast flows with the exception of the San Joaquin Hills Planned Community and Gas Recovery System flow are excluded from IRWD's CORF flow calculation. The OCSD's 1988 Downcoast Area Agreement only requires for IRWD to provide local wastewater collection service and requires OCSD to provide wastewater regional collection, transmission, treatment and disposal for that area.

Data Collection

The OCSD's Monthly Gallonage Flow Summary Report provides the actual flows used in calculating IRWD's CORF flow. This includes the Main Street Flume Meter actual monthly flow. All non Revenue Area 14 (IRWD) flows that are tributary to the Main Street Flume Meter is adjusted every year based on the results of OCSD's Flow Verification Study. The San Joaquin Hills Planned Community flow is adjusted every year based on the results of IRWD's Flow Verification Study. The Gas Recovery System flow is the actual monthly meter flow. The IBC transfer flow is adjusted every five years based on the results of OCSD's Flow Verification Study.

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	3.83		<i>Thru:</i> August 2012
October 2011	3.83		<i>Goal:</i> 4.95
November 2011	3.83		
December 2011	3.84		
January 2012	3.84		
February 2012	3.84		
March 2012	3.84		
April 2012	3.95		
May 2012	4.25		
June 2012	4.53		
July 2012	3.33		
August 2012	3.27		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***OSHA Recordables***

**MONTHLY STATUS REPORT**

Metric Owner: Ken Erwin

District Safety & Security Manager

Definition of Measure:

OSHA Recordables are a monthly measure of injuries and illnesses that occurred and must be entered on the OSHA 300 (Log of Work Related Injuries and Illnesses), in conformance with OSHA requirements. This measure is standardized not only in the water/wastewater industry, but throughout industries nationwide.

Method:

OSHA Recordables = Number of OSHA Recordable cases occurring during the subject month.

Data Collection

All injuries/illnesses and near-misses are reported to the District Safety & Security Manager immediately when they occur. All are investigated and cases meeting the recordable definition are logged. This measure simply reports the number of accidents whose occurrence date is within the calendar month.

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	1.00		<i>Thru:</i> August 2012
October 2011	0		<i>Goal:</i> 0
November 2011	3.00		
December 2011	1.00		
January 2012	3.00		
February 2012	2.00		
March 2012	1.00		
April 2012	2.00		
May 2012	2.00		
June 2012	1.00		
July 2012	2.00		
August 2012	0		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***MWRP Energy Cost per kWh***

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Actual MWRP Cost per kWh used at MWRP with new generating facility.

Method:

MWRP cost per kWh is calculated by the monthly total energy purchased from imported SCE electricity, purchased natural gas for the generators from Coral Energy, and SCG natural gas transportation charge divided by the total monthly kWh generated and imported from SCE. We then add in actual maintenance costs, including g/a.

Data Collection

Data collected from actual monthly SCE, Coral Energy and SCG Invoices. Total kWh is collected from the two generator kWh meters and SCE main electric meter.

Current Issues

1. None

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	.10		<i>Thru:</i> August 2012
October 2011	.09		<i>Goal:</i> .08
November 2011	.08		
December 2011	.08		
January 2012	.08		
February 2012	.08		
March 2012	.08		
April 2012	.08		
May 2012	.08		
June 2012	.11 *		
July 2012	.10 *		
August 2012	.10 *		

\* MWRP SCE energy rates are always higher during the summer months resulting in a higher \$/kw. The reported number is not a 12 month running average.



IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

**Wastewater Cost**

**MONTHLY STATUS REPORT**

Metric Owner: Wayne Posey

Director of Wastewater Operations

Definition of Measure:

Total cost of collection and treatment (primary, secondary, and solids disposal) of wastewater, on a unit basis (\$/million gallons) for this month.

Method:

( MWRP cost of collections(G/L #530) + MWRP cost of treatment(G/L #551,552,565) + OCSD cost(G/L #535,555) + SMWD cost(G/L #531,556) ) divided by the total sewage flows emanating from OCSD District #14 (Includes MWRP flow + OCSD flow + SMWD flow)

Data Collection

Data used for this measure are collected from the general ledger and from Orange County Sanitation District (OCSD) and Santa Margarita Water District (SMWD) staff. Costs and flows from OCSD District #7 are not included in the calculation.

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	2,040.00	2,386.00	<i>Thru:</i> August 2012
October 2011	2,126.00	2,190.00	<i>Goal:</i> 2,347.00
November 2011	2,186.00	2,196.00	
December 2011	2,196.00	2,232.00	
January 2012	2,202.00	2,273.00	
February 2012	2,218.65	2,313.00	
March 2012	2,331.06	2,363.00	
April 2012	2,467.50	2,401.00	
May 2012	2,506.00	2,463.00	
June 2012	2,194.00	2,491.00	
July 2012	2,297.00	2,435.00	
August 2012	2,250.00	2,346.00	

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Water System Cost--Potable***

**MONTHLY STATUS REPORT**

Metric Owner: Denise To-Nguyen

Accountant

Definition of Measure:

Total cost of potable water delivered to IRWD's customers this month, on a unit basis (\$/acre-foot). These monthly costs can vary greatly due to variation in water sales and power cost billing cycles. Thus, monthly expenses do not match up with their corresponding water sales.

Method:

Sum of all potable water costs accrued this month divided by the quantity of potable water sold this month.

Data Collection

Potable water costs collected from current month general ledger. This cost includes labor, power, distribution, and other costs. The quantity of water sold is collected from the Water Usage Variance Report, which summarizes metered water sales. Wide fluctuations in this measure may occur due to the billing delays for such expenses as electrical power (ie, bills are not paid in the same month as the water is sold).

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	731.00	768.00	<i>Thru:</i> August 2012
October 2011	699.00	866.00	<i>Goal:</i> 812.00
November 2011	795.17	858.00	
December 2011	657.43	828.00	
January 2012	859.01	836.00	
February 2012	843.39	834.00	
March 2012	858.00	832.00	
April 2012	846.00	828.00	
May 2012	887.00	826.00	
June 2012	893.00	824.00	
July 2012	536.00	776.00	
August 2012	726.00	812.00	

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Water System Cost--Nonpotable***

**MONTHLY STATUS REPORT**

Metric Owner: Denise To-Nguyen

Accountant

Definition of Measure:

Total cost of nonpotable water delivered to IRWD's customer this month, on a unit basis (\$/acre-foot). These monthly costs can vary greatly due to variation in water sales and power cost billing cycles. Thus, monthly expenses do not match up with their corresponding water sales.

Method:

Sum of all nonpotable water costs accrued this month divided by the quantity of nonpotable water sold this month.

Data Collection

Nonpotable water costs collected from current month general ledger. This cost includes labor, power, distribution, and other costs related to tertiary treatment and reclaimed water distribution. The quantity of water sold is collected from the Water Usage Variance Report, which summarizes metered water sales. Wide fluctuations in this measure may occur due to the billing delays for such expenses as electrical power (ie, bills are not paid in the same month as the water is sold).

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	413.08	422.00	<i>Thru:</i> August 2012
October 2011	490.00	451.00	<i>Goal:</i> 339.00
November 2011	404.40	468.00	
December 2011	517.82	485.00	
January 2012	463.75	473.00	
February 2012	500.14	486.00	
March 2012	536.00	493.00	
April 2012	370.00	482.00	
May 2012	410.00	479.00	
June 2012	346.00	472.00	
July 2012	279.00	319.00	
August 2012	314.00	339.00	

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Enterprise Return***

**MONTHLY STATUS REPORT**

Metric Owner: Finance

Debt and Investment Analyst

Definition of Measure:

This is a monthly measure of performance by IRWD's various enterprise activities, including residential and commercial real estate, Strawberry Farms Golf Course, and wireless communications leases.

Method:

Enterprise Return = Actual Net Income/Budgeted Net Income x 100

Data Collection

The various enterprise activities generate revenues and expenses at different frequencies through the year. Except for the real estate projects, the enterprise projects are primarily revenue generating activities with relatively little associated expenses. The measure reflects a comparison between the actual and budgeted net income of the various projects on a monthly basis.

Current Issues

1. The August measure is on budget

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	1.00		<i>Thru:</i> August 2012
October 2011	1.03		<i>Goal:</i> 1.00
November 2011	.95		
December 2011	.99		
January 2012	1.07		
February 2012	1.00		
March 2012	1.00		
April 2012	1.02		
May 2012	1.03		
June 2012	1.03		
July 2012	1.07		
August 2012	1.00		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Overhead Ratio***

**MONTHLY STATUS REPORT**

Metric Owner: Jessica Craig Accountant

Definition of Measure:

Overhead Ratio is a measure of general and administrative (G&A) overhead expenses compared to direct labor expenses.

Method:

Ratio of total G&A expenses to total direct labor (including regular and overtime wages).

Data Collection

G&A expenses are summarized from the general ledger and include all costs incurred that are not directly accounted to mission-critical work (charged to g/l #792). Direct labor expenses are the hourly staff charges accounted to mission-critical work (generally charged to expense codes #110 and #120). Benefits are considered G&A, not direct labor expenses.

Current Issues

1. Information not available at time of reporting.

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	1.68		<i>Thru:</i> August 2012
October 2011	1.24		<i>Goal:</i> 1.80
November 2011	1.00		
December 2011	1.81		
January 2012	2.28		
February 2012	.70		
March 2012	1.80		
April 2012	1.50		
May 2012	2.10		
June 2012	2.10		
July 2012	Not available		
August 2012	Not available		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

## *Customer Satisfaction*

### MONTHLY STATUS REPORT

Metric Owner: Gina Jackson

Customer Service Manager

Definition of Measure:

Customer Satisfaction is measured by IRWD's Customer Satisfaction Index. The index is measured by sending surveys to a statistically-significant, random selection of customers that have called IRWD for some type of service. Services range from answering questions about water conservation or billing to repairing a sewer blockage in the street. The surveys allow the customer to rate IRWD's response to their request in eight categories. Each category is rated from 1 to 5, with 1 indicating the highest level of satisfaction. A total score of 100 indicates the highest level of satisfaction in all eight categories. The scores of all responses in the subject month are a weighted average for the monthly index figure.

Method:

Data Collection

Surveys are mailed at the end of each work week for the customer requests completed that week. The monthly index reflects the surveys received within the subject month.

Current Issues

1. Total Overall Satisfaction: 99%  
Satisfaction: 98%  
Timely: 97%  
Phone: 100%  
Field Contact: 100%

### MONTHLY DATA

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	99.00		<i>Thru:</i> August 2012
October 2011	95.00		<i>Goal:</i> 90.00
November 2011	100.00		
December 2011	98.00		
January 2012	98.00		
February 2012	98.00		
March 2012	95.00		
April 2012	99.00		
May 2012	96.00		
June 2012	100.00		
July 2012	93.00		
August 2012	99.00		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***Employee Satisfaction***

**MONTHLY STATUS REPORT**

Metric Owner: Gretchen Maswadeh

Human Resources Manager

Definition of Measure:

Level of employee satisfaction with employment at IRWD.

Method:

Average of all scores on surveys for performance evaluations presented this month

Data Collection

A survey is sent to each employee receiving a performance evaluation this month. The survey simply asks the employee to rate his/her overall employment satisfaction on a scale of 1 to 6 (1 being very dissatisfied and 6 being very satisfied). The ratings are compiled and averaged by Human Resources.

Current Issues

1. 6 surveys were returned of 32 surveys sent (19%). 6 of 6 respondents (100%) rated satisfaction as 5 or 6 on a scale of 1 to 6. In the 12 month period ending August 2012, 102 surveys have been returned of 296 surveys sent (34%). 78 of 102 respondents (76%) rated satisfaction as 5 or 6 on a scale of 1 to 6. 12 month average rating is 5.08%

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	4.38		<i>Thru:</i> August 2012
October 2011	5.36		<i>Goal:</i> 5.00
November 2011	5.91		
December 2011	4.86		
January 2012	5.40		
February 2012	4.60		
March 2012	5.00		
April 2012	4.77		
May 2012	5.13		
June 2012	4.67		
July 2012	4.50		
August 2012	5.33		

IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***DATS Well Production***

**MONTHLY STATUS REPORT**

Metric Owner: Tom Roberts

Operations Manager

Definition of Measure:

Number of acre-feet of water produced by Dyer Road wells C-8 and C-9 to supply water to the Deep Aquifer Treatment System (DATS).

Method:

Summation of production from wells C-8 and C-9.

Data Collection

Data collected from meters at wells.

Current Issues

1. None

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<b>From:</b> September 2011
September 2011	766.00	700.00	<b>Thru:</b> August 2012
October 2011	698.00	700.00	<b>Goal:</b> 700.00
November 2011	759.00	700.00	
December 2011	731.00	700.00	
January 2012	736.00	700.00	
February 2012	756.00	700.00	
March 2012	689.00	700.00	
April 2012	805.00	700.00	
May 2012	685.00	700.00	
June 2012	802.00	700.00	
July 2012	733.00	700.00	
August 2012	745.00	700.00	



IRVINE RANCH WATER DISTRICT  
STRATEGIC MEASURES

***IDP Treated Water***

**MONTHLY STATUS REPORT**

Metric Owner: Tom Roberts Operations Manager

Definition of Measure:

Number of acre-feet of treated water produced by the Irvine Desalter Project (IDP).

Method:

Difference between final effluent volume and discharge to storm drain volume.

Data Collection

Data collected from final effluent and discharge to storm drain meters.

Current Issues

1. Wells 107 and 115 off-line due to condition. Well 115 pending re-drilling. Well 107 was re-drilled and the new well will be placed in service shortly.

**MONTHLY DATA**

<u>Month</u>	<u>Value</u>	<u>Goal</u>	<i>From:</i> September 2011
September 2011	220.00	185.00	<i>Thru:</i> August 2012
October 2011	206.00	185.00	<i>Goal:</i> 185.00
November 2011	235.00	185.00	
December 2011	186.00	185.00	
January 2012	162.00	185.00	
February 2012	138.00	185.00	
March 2012	136.00	185.00	
April 2012	187.00	185.00	
May 2012	178.00	185.00	
June 2012	235.00	185.00	
July 2012	200.00	185.00	
August 2012	196.00	185.00	

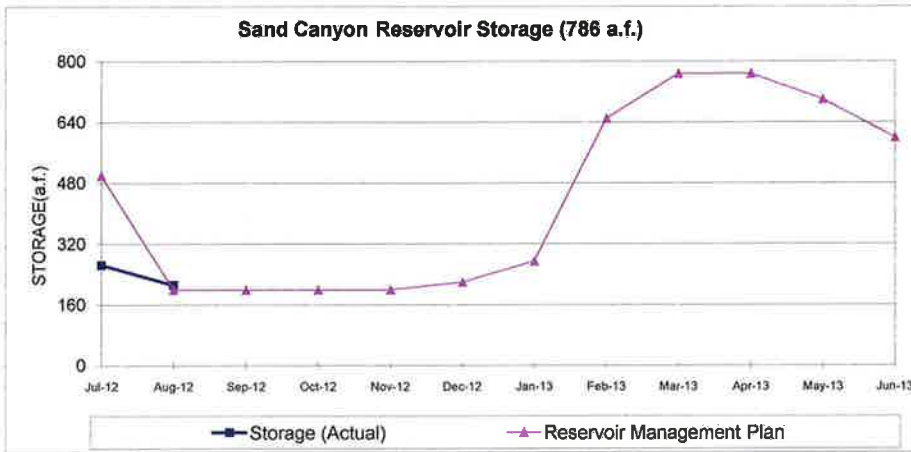
**EXHIBIT "B"**

<b>DYER ROAD WELL FIELD STATUS</b>							<b>Aug-2012</b>
Well Number	Production Mo./YTD	Ref. Point Elevation	Depth to Water 8/31/2012	Water Level-MSL	Depth of Bowls	Bowl Setting-MSL	Feet of Water Above Intake
1	144.3 AF 347.7 AF	34	N/A	N/A	270	-236	N/A
2	0.0 AF 78.2 AF	37	105	-69	270	-234	165
			Static				
3	0.0 AF 0.0 AF	55	102	-47	215	-160	113
			Static				
4	272.7 AF 503.6 AF	38	151	-113	216	-178	65
			Pumping				
5	188.6 AF 391.9 AF	48	278	-230	290	-242	12
			Pumping				
6	145.3 AF 298.7 AF	43	144	-101	250	-207	106
			Pumping				
7	136.2 AF 397.3 AF	40	243	-203	290	-250	47
			Pumping				
C-8 DATS	416.1 AF 830.4 AF	37	135	-98	305	-268	170
			Pumping				
C-9 DATS	328.4 AF 646.6 AF	23	135	-112	305	-282	170
			Pumping				
10	353.7 AF 732.1 AF	47	179	-132	250	-203	71
			Pumping				
11	0.0 AF 0.1 AF	40	120	-80	300	-260	180
			Static				
12	210.6 AF 400.0 AF	51	187	-136	300	-249	113
			Pumping				
13	124.4 AF 186.2 AF	40	213	-173	300	-260	87
			Pumping				
14	260.9 AF 381.8 AF	47	204	-157	311	-264	107
			Pumping				
15	404.5 AF 547.2 AF	44	188	-144	300	-256	112
			Pumping				
16	52.5 AF 137.5 AF	47	224	-177	280	-233	56
			Pumping				
17	299.9 AF 594.4 AF	52	200	-149	250	-199	50
			Pumping				
18	187.1 AF 296.1 AF	45	233	-188	300	-255	67
			Pumping				
Clear production:	2,780.7 AF for the month						
FYTD:	5,292.8 AF						
DATS production:	744.5 AF for the month						
FYTD:	1,477.0 AF						

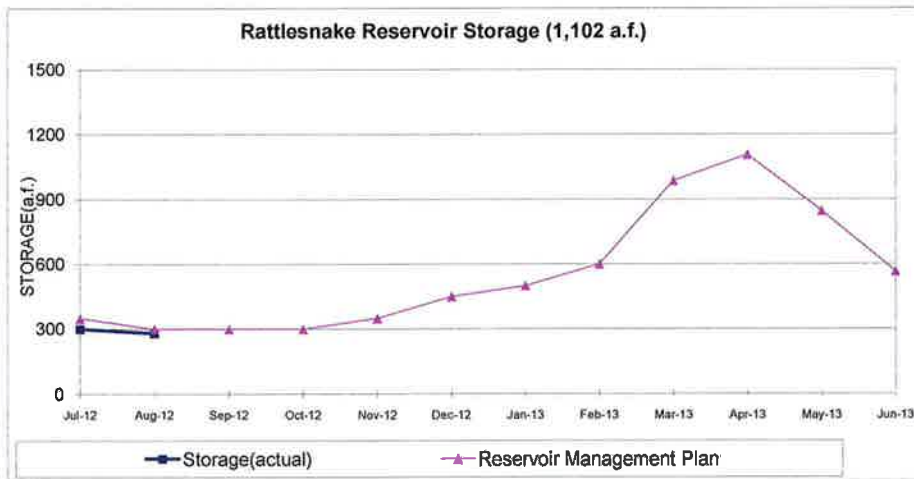


# EXHIBIT "C"

## RESERVOIR DATA FY 12-13

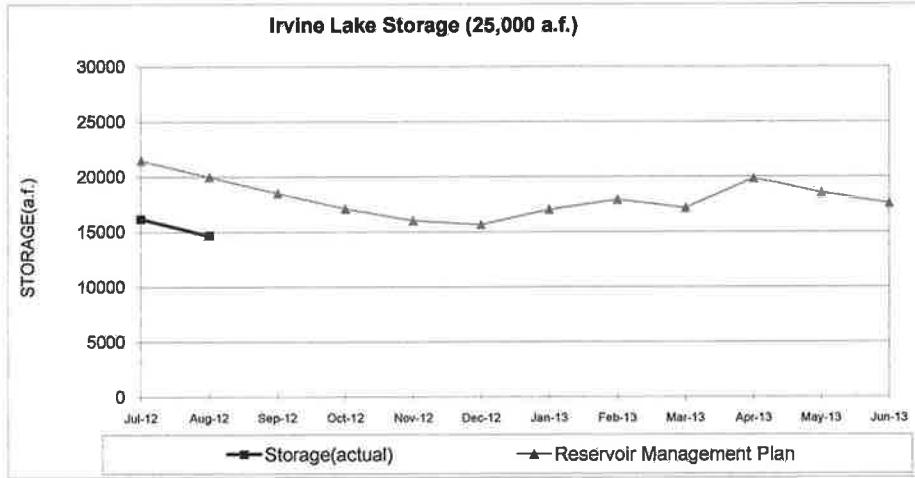


Sand Canyon Reservoir run-off was less than expected.

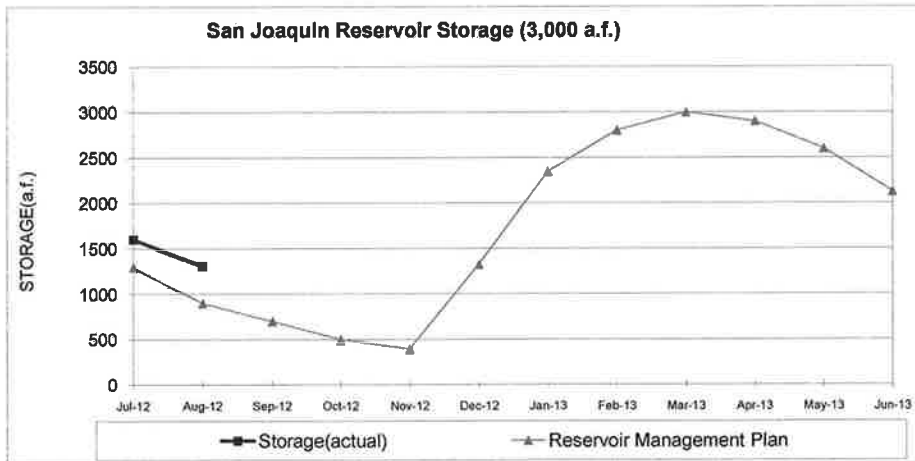


Rattlesnake storage is on track.




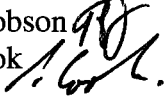
RESERVOIR DATA FY 12-13



Irvine Lake storage is on track.



San Joaquin Reservoir storage is on track.

September 24, 2012   
Prepared by: Tanja Fournier/Jennifer Davis   
Submitted by: Rob Jacobson   
Approved by: Paul Cook 

## CONSENT CALENDAR

### AUGUST 2012 FINANCIAL REPORTS

#### SUMMARY:

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

- A. The Investment Summary Report for August 2012. This Investment Summary Report is in conformity with the 2012 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 August 31, 2012, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,363,244.60, as outlined in Exhibit "C".
- D. The August 31, 2012 Disbursement Summary of the tabulation of Warrant Nos. 331996 through 332971, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$20,589,023.20, as outlined in Exhibit "D".

#### FISCAL IMPACTS:

As of August 31, 2012, the book value of the investment portfolio was \$325,773,601, with a 0.41% rate of return and a market value of \$326,101,827. Based on the District's August 31, 2012 quarterly real estate investment rate of return of 11.29%, the District's weighted average return for the fixed income and real estate investments was 2.19%.

As of August 31, 2012, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in August from all swaps was negative \$617,321 and negative \$1,276,571 fiscal year to date.

Payroll ACH payments totaled \$1,363,244.60 and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll and water purchases for August totaled \$20,589,023.20.

#### 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 AND THE MONTHLY INTEREST RATE SWAP SUMMARY FOR AUGUST 2012; APPROVE THE AUGUST 2012 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,363,244.60, AND APPROVE THE AUGUST 2012 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS NOS. 331996 THROUGH 332971, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$20,589,023.20.

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

08/31/12

YIELD	START DATE	CPI Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	CYCLE	YIELD	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE	UNREALIZED GAIN/LOSS
100.12%	08/17/12			09/30/12		LAIF	State of California Tsy.	\$50,000,000		0.358%		\$50,000,000.00	\$50,000,000.00	50,060,982.15	60,982.15
100.12%	07/13/12			09/30/12		LAIF-JPA	State of California Tsy.	50,000,000		0.358%		\$50,000,000.00	\$50,000,000.00	50,060,982.15	60,982.15
100.12%	07/17/12			09/06/12		LAIF-2009A	State of California Tsy.	468,883		0.358%		\$468,882.84	\$468,882.84	469,454.71	571.87
100.12%	07/17/12			09/06/12		LAIF-2009B	State of California Tsy.	468,883		0.358%		\$468,882.84	\$468,882.84	469,454.71	571.87
100.12%	08/17/12			09/17/12		LAIF BABS	State of California Tsy.	68,913,102		0.358%		\$68,913,102.20	\$68,913,102.20	68,997,151.58	84,049.38
100.00%	08/31/12			09/01/12		B of A Tsy. Reserves	Bank of America	5,949,781		0.009%		5,949,780.64	5,949,780.64	5,949,780.64	
100.91%	05/23/11	N/A	N/A	04/11/13	Aaa/AAA/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.720%	0.517%		5,112,550.00	5,036,264.30	5,045,450.00	9,185.70
100.06%	11/29/11	One Time	11/29/12	11/29/13	Aaa/AA+/AA+	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.500%	0.596%	0.690%	4,990,500.00	4,994,099.86	5,003,050.00	8,950.14
100.47%	04/24/12	N/A	N/A	12/23/13	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.625%	0.304%		5,026,600.00	5,020,912.50	5,023,400.00	2,487.50
100.00%	01/31/12	Continuous	04/27/12	01/27/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.350%	0.350%	0.350%	5,000,000.00	5,000,000.00	5,000,050.00	50.00
100.05%	01/30/12	Continuous	01/30/13	01/30/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.330%	0.355%	0.380%	4,997,500.00	4,998,235.29	5,002,600.00	4,364.71
101.66%	07/11/12	N/A	N/A	02/25/14	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	1.375%	0.301%		5,086,800.00	5,079,071.23	5,082,850.00	3,778.77
100.00%	02/09/12	Continuous	04/25/12	04/25/14	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.430%	0.430%	0.430%	5,000,000.00	5,000,000.00	5,000,050.00	50.00
100.12%	05/23/12	N/A	N/A	05/23/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.350%	0.394%		4,995,600.00	4,996,208.77	5,006,150.00	9,941.23
102.05%	04/18/12	N/A	N/A	05/28/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.375%	0.354%		5,107,250.00	5,088,307.14	5,102,550.00	14,242.86
100.05%	10/19/11	One Time	10/17/12	10/17/14	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.750%	0.801%	0.902%	4,992,500.00	4,994,680.07	5,002,700.00	8,019.93
100.21%	04/26/12	One Time	04/26/13	10/24/14	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Mortgage Bank	5,000,000	0.600%	0.425%		5,008,700.00	5,007,477.61	5,010,600.00	3,122.39
100.09%	12/19/11	Quarterly	12/19/12	12/19/14	Aaa/AA+/NR	FHLMC - Note	Fed Home Loan Mortgage Bank	5,000,000	0.625%	0.625%	1.038%	5,000,000.00	5,000,000.00	5,004,300.00	4,300.00
100.00%	01/31/12	Continuous	04/26/12	01/26/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.570%	0.570%	0.570%	5,000,000.00	5,000,000.00	5,000,050.00	50.00
100.42%	01/30/12	One Time	01/30/14	01/30/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.750%	0.500%	0.500%	5,024,850.00	5,019,975.23	5,020,800.00	824.77
100.42%	01/30/12	One Time	01/30/14	01/30/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	0.750%	0.453%	0.453%	10,059,000.00	10,047,426.09	10,041,600.00	(5,826.09)
100.00%	02/09/12	Continuous	05/09/12	02/09/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.460%	0.480%	0.700%	4,997,000.00	4,997,561.13	5,000,050.00	2,488.87
100.01%	03/14/12	Continuous	09/12/12	03/12/15	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.550%	0.601%	0.855%	4,992,500.00	4,993,673.38	5,000,500.00	6,826.62
100.26%	04/18/12	Continuous	04/16/13	04/16/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.600%	0.617%	0.651%	4,997,500.00	4,997,811.07	5,013,050.00	15,238.93
100.14%	06/27/12	Quarterly	12/26/12	06/26/15	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	0.700%	0.693%	0.660%	10,002,000.00	10,001,882.56	10,014,000.00	12,117.44
100.20%	08/28/12	Continuous	08/27/13	08/27/15	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	0.480%	0.480%	0.480%	10,000,000.00	10,000,000.00	10,019,600.00	19,600.00
100.00%	06/25/12	N/A	N/A	08/01/21	AA-/VMIG2/NR	VRDO	West Basin Water	3,560,000		0.220%		3,560,000.00	3,560,000.00	3,560,000.00	
101.69%	08/23/12	N/A	N/A	06/20/13		CA ST-RANS-A1	State of California	3,500,000	2.500%	0.430%	0.430%	3,559,535.00	3,557,754.88	3,559,010.00	1,255.12
<b>SUB-TOTAL</b>								<b>\$297,860,649</b>				<b>\$298,311,033.52</b>	<b>\$298,191,989.64</b>	<b>\$298,520,215.94</b>	<b>\$328,226.30</b>
<b>RESTRICTED CASH (Swap Collateral Deposits)</b>															
100.00%						Collateral Deposit	Citi-Group	\$18,791,611		0.133%		\$18,791,611.34	\$18,791,611.34	18,791,611.34	
100.00%						Collateral Deposit	Merrill Lynch	\$8,790,000		0.133%		\$8,790,000.00	\$8,790,000.00	8,790,000.00	
<b>SUB-TOTAL</b>								<b>\$27,581,611</b>				<b>\$27,581,611.34</b>	<b>\$27,581,611.34</b>	<b>\$27,581,611.34</b>	
<b>TOTAL INVESTMENTS</b>								<b>\$325,442,260</b>				<b>\$325,892,644.86</b>	<b>\$325,773,600.98</b>	<b>\$326,101,827.28</b>	
						Petty Cash						3,300.00			
			June Bal			Bank Bal. (unrec.)	Bank of America					(2,804,439.94)			
												<b>\$323,091,504.92</b>			

(1) LAIF market value is as of the most recent quarter-end as reported by LAIF.  
Security market values are determined using Bank of New York ("Trading Prices"), Bloomberg and/or broker dealer pricing.  
(2) Gain (loss) calculated against carry value using the trading value provided by Bank of New York/or Brokers  
(3) Real estate rate of return is based on most recent quarter end return

Outstanding Variable Rate Debt	\$372,560,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$242,560,000
Investment Balance:	\$323,091,505
Investment to Variable Rate Debt Ratio:	133%
Portfolio - Average Number of Days To Maturity	351

	Investment Portfolio	Real Estate Portfolio (3)	Weighted Avg. Return
August	0.41%	11.29%	2.19%
July	0.41%	11.29%	2.15%
Change			

This Investment Summary Report is in conformity with the 2012 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.



IRVINE RANCH WATER DISTRICT  
SUMMARY OF MATURITIES

08/31/12

PORTFOLIO \$325,442,260

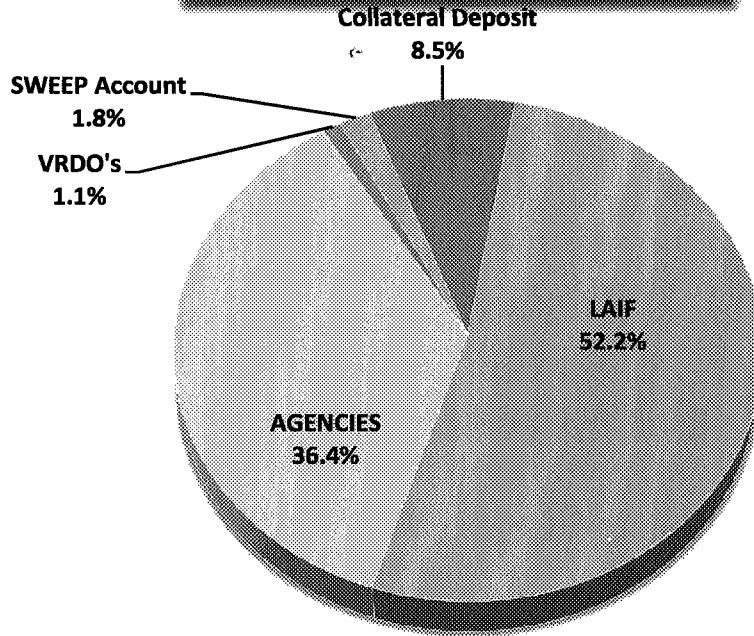
DATE	TOTAL	Y	CAIF	AGENCIES	VRDO	MONEY MARKET SAVINGS & SWEEP	Collateral * Deposit	CAL REV NOTES
8/12	\$206,942,260	63.59%	\$169,850,868		3,560,000	5,949,781	\$27,581,611	
9/12								
10/12								
11/12								
12/12								
1/13								
2/13								
3/13								
04/13	\$5,000,000	1.54%		5,000,000				
05/13								
06/13	\$3,500,000	1.08%						3,500,000
07/13								
<b>SUB-TOTAL</b>	<b>\$215,442,260</b>	<b>66.20%</b>	<b>\$169,850,868</b>	<b>5,000,000</b>	<b>3,560,000</b>	<b>5,949,781</b>	<b>\$27,581,611</b>	<b>\$3,500,000</b>
<b>13 Months - 3 YEARS</b>								
8/1/2013 - 9/30/2013	-							
10/1/2013 - 12/31/2013	\$10,000,000	3.07%		10,000,000				
1/1/2014 - 3/31/2014	\$15,000,000	4.61%		15,000,000				
4/1/2014 - 6/30/2014	\$15,000,000	4.61%		15,000,000				
7/1/2014 - 9/30/2014	-							
10/1/2014 - 12/31/2014	\$15,000,000	4.61%		15,000,000				
1/1/2015 - 3/31/2015	\$30,000,000	9.22%		30,000,000				
4/1/2015 - 6/30/2015	\$15,000,000	4.61%		15,000,000				
07/1/30/2015 - 9/30/2015	10,000,000	3.07%		10,000,000				
<b>TOTALS</b>	<b>\$325,442,260</b>	<b>100.00%</b>	<b>\$169,850,868</b>	<b>115,000,000</b>	<b>3,560,000</b>	<b>5,949,781</b>	<b>\$27,581,611</b>	<b>\$3,500,000</b>
<b>% OF PORTFOLIO</b>			<b>52.19%</b>	<b>35.34%</b>	<b>1.09%</b>	<b>1.83%</b>	<b>8.48%</b>	<b>1.08%</b>

\* Return of posted collateral is dependant on interest rates.

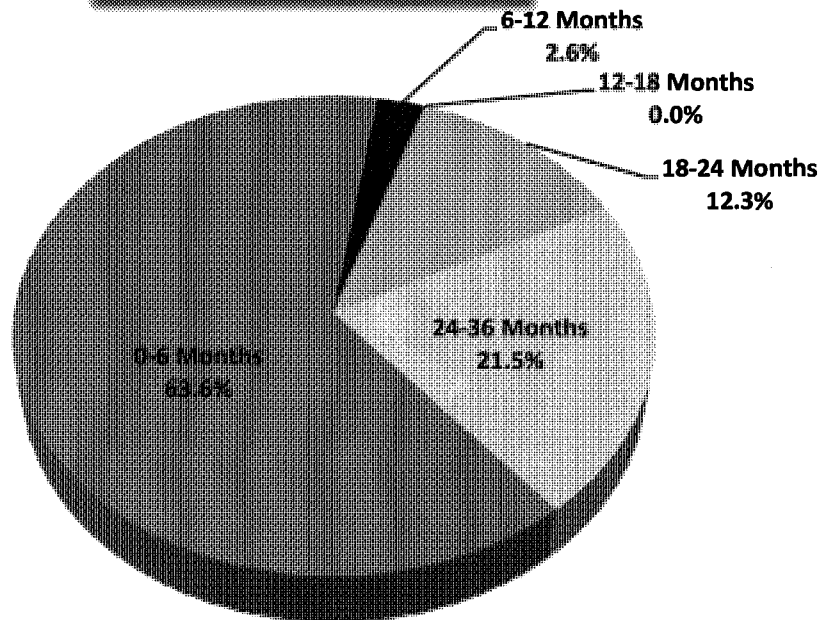
# August 2012 INVESTMENT PORTFOLIO

As of August 31, 2012

## Portfolio by Investment Type



## Portfolio by Maturities



Irvine Ranch Water District  
 Summary of Real Estate  
 6/30/2012

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>RATE OF RETURN QUARTER ENDED Jun-12</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	13.23%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	8.50%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	8.02%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	8,630,577	5.61%
				<u>\$ 63,921,232</u>	<u>11.29%</u>

\*Original Estimate provided was revised in June - correction to expenses increased the rate of return for June

IRVINE RANCH WATER DISTRICT  
INVESTMENT SUMMARY REPORT

Joint Powers Agency - Investment Contracts

6/30/2012

Settlement Date	JPA Issue	Investment Contract	Original Cost	Current Par	Market Value 06/30/12
10/25/1994	JPA - Issue #1	AIG Matched Funding Corp. 7.705% Due 2-15-14	\$ 407,878,616	\$ 254,407,400	\$ 254,407,400
10/25/1994	JPA - Issue #2	Federal National Mortgage Assoc. 8.18% Due 2-15-14	\$ 518,644,189	\$ 380,043,068	\$ 425,184,584
			<u>\$ 926,522,805</u>	<u>\$ 634,450,468</u>	<u>\$ 679,591,984</u>

**IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT  
INVESTMENT ACTIVITY  
Aug-12**

**MATURITIES/SALES**

**PURCHASES**

DATE	SECURITY TYPE	PAR	YIELD	DATE	SECURITY TYPE	PAR	YIELD
8/1/2012	VRDO - West Basin (Partial Call)	\$290,000	0.22%	8/23/2012	CA - ST-A1-RANS	\$3,500,000	0.43%
8/22/2012	FHLB - Note	\$5,000,000	0.66%	8/28/2012	FFCB - Note	\$10,000,000	0.48%
8/28/2012	FNMA - Note	\$5,000,000	0.65%				
8/28/2012	FNMA - Note	\$5,000,000	0.79%				

**LAIF ACTIVITY**

LAIF	\$11,000,000
LAIF BABS	(\$15,200,000)

Increase/(Decrease)	<u>(\$4,200,000)</u>
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**COLLATERALIZED DEPOSIT ACTIVITY**

Balance Forward	\$25,888,374
-----------------	--------------

CITIGROUP	\$1,693,238
MERRILL LYNCH	

Balance at 8/31	<u>\$27,581,612</u>
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**IRVINE RANCH WATER DISTRICT  
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL  
August 31, 2012**

Exhibit "B"

								LIBOR Avg %			Prior Mo.		Current Mo.		12-Mo Avg	
								0.25%	0.24%	0.25%						
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	6.8	ML	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (105,884)	\$ (99,126)	\$ (205,010)	\$ (5,247,857)	\$ 13,236,615	\$ (6,763,385)			
6/4/2006	6/4/2019	6.8	CG	\$ 20,000,000	FXP	LIBOR	6.200%	\$ (105,884)	\$ (99,126)	\$ (205,010)	\$ (5,247,857)	\$ 13,233,998	\$ (6,766,002)			
6/17/2006	6/17/2019	6.8	CG	\$ 30,000,000	FXP	LIBOR	6.140%	\$ (157,198)	\$ (147,217)	\$ (304,415)	\$ (7,771,702)	\$ 19,932,848	\$ (10,067,152)			
3/10/2007	3/10/2029	16.5	ML	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (145,142)	\$ (135,926)	\$ (281,068)	\$ (6,834,486)	\$ 14,775,019	\$ (15,224,981)			
3/10/2007	3/10/2029	16.5	CG	\$ 30,000,000	FXP	LIBOR	5.687%	\$ (145,142)	\$ (135,926)	\$ (281,068)	\$ (6,834,486)	\$ 14,738,916	\$ (15,261,084)			
<b>Totals/Weighted Avgs</b>		<b>11.3</b>		<b>\$ 130,000,000</b>			<b>5.949%</b>	<b>\$ (659,250)</b>	<b>\$ (617,321)</b>	<b>\$ (1,276,571)</b>	<b>\$ (31,936,389)</b>	<b>\$ 75,917,396</b>	<b>\$ (54,082,604)</b>			
<b>Total Current Year Active Swaps</b>				<b>\$ 130,000,000</b>				<b>\$ (659,250)</b>	<b>\$ (617,321)</b>	<b>\$ (1,276,571)</b>	<b>\$ (31,936,389)</b>	<b>\$ 75,917,396</b>	<b>\$ (54,082,604)</b>			

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
<b>Total Current Year Terminated Swaps</b>								<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

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
<b>Total Current Year Active &amp; Terminated Swaps</b>				<b>\$ 130,000,000</b>				<b>\$ (659,250)</b>	<b>\$ (617,321)</b>	<b>\$ (1,276,571)</b>	<b>\$ (31,936,389)</b>	<b>\$ 75,917,396</b>	<b>\$ (54,082,604)</b>

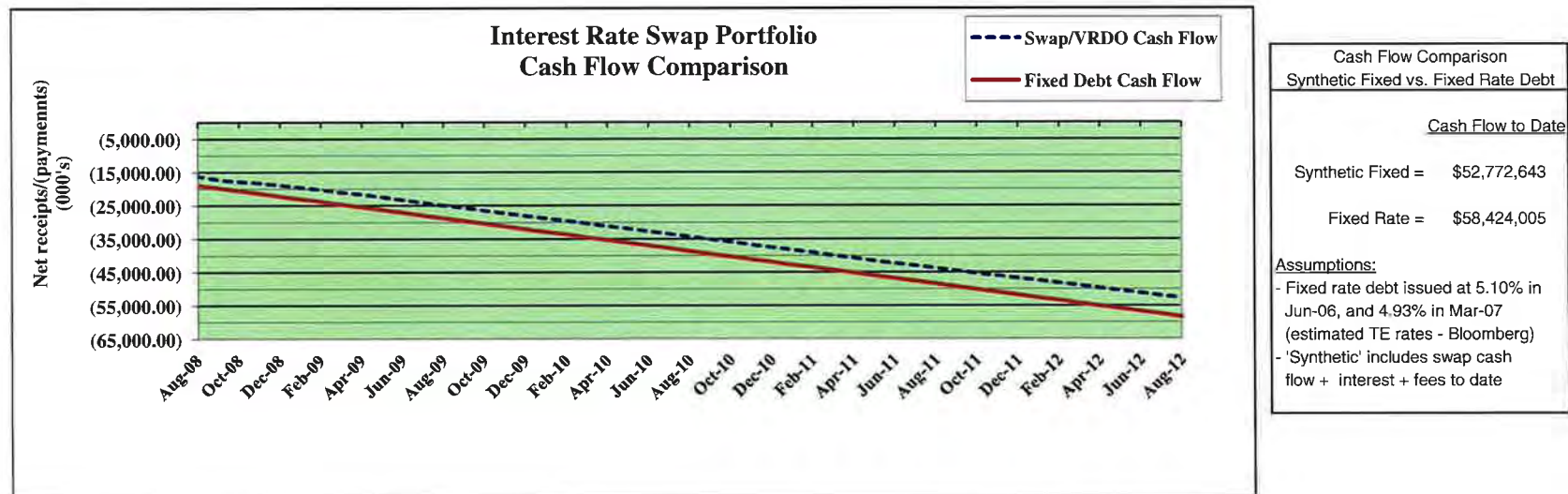




Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

August  
2012

DATE	AMOUNT	VENDOR	PURPOSE
8/10/2012	699,856.77	BANK OF AMERICA	PAYROLL 08/10/12
8/24/2012	663,387.83	BANK OF AMERICA	PAYROLL 08/24/12
	<u><u>\$1,363,244.60</u></u>		





## Exhibit "D"

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
331996		02-AUG-12	SOUTH COAST AIR QUALITY MANAGEMENTBAR 2 DISTRICT	DIAMOND	238.12			Negotiable
331997		02-AUG-12	AAF INTERNATIONAL		1,118.38			Negotiable
331998		02-AUG-12	AARP HEALTH CARE OPTIONS		210.92			Negotiable
331999		02-AUG-12	ACCOUNT RECEIVABLE COLLECTIONS LLC		3,591.73			Negotiable
332000		02-AUG-12	ACCURATE MEASUREMENT SYSTEMS INC		5,973.17			Negotiable
332001		02-AUG-12	AIRCLEAN SYSTEMS		343.32			Negotiable
332002		02-AUG-12	AIRGAS-WEST, INC.		175.68			Negotiable
332003		02-AUG-12	ALEXANDER CONTRACT SERVICES INC		99,863.12			Negotiable
332004		02-AUG-12	AMES, LINDA		52.68			Negotiable
332005		02-AUG-12	ARCADIS U.S., INC.		15,534.57			Negotiable
332006		02-AUG-12	ASSETPOINT LLC		15,494.00			Negotiable
332007		02-AUG-12	AT&T		243.60			Negotiable
332008		02-AUG-12	AT&T		49.69			Negotiable
332009		02-AUG-12	ATIENZA, ALLEEN		57.90			Negotiable
332010		02-AUG-12	BANK OF AMERICA MERRILL LYNCH		26,908.40			Negotiable
332011		02-AUG-12	BATTERY SYSTEMS INC		3,595.32			Negotiable
332012		02-AUG-12	BDC SPECIAL WASTE		200.00			Negotiable
332013		02-AUG-12	BILL'S SWEEPING SERVICE INC		690.00			Negotiable
332014		02-AUG-12	BIOMAGIC INC		8,231.09			Negotiable
332015		02-AUG-12	BLACK & VEATCH CORPORATION		129,900.00			Negotiable
332016		02-AUG-12	BOUCHER, DAVE		26.91			Negotiable
332017		02-AUG-12	BRITHINEE ELECTRIC		10,302.83			Negotiable
332018		02-AUG-12	BROOKS UTILITY PRODUCTS GROUP		689.30			Negotiable
332019		02-AUG-12	BRUKER DALTRONICS, INC.		2,068.80			Negotiable
332020		02-AUG-12	BUSH & ASSOCIATES INC		1,940.00			Negotiable
332021		02-AUG-12	C WELLS PIPELINE MATERIALS INC		60,864.76			Negotiable
332022		02-AUG-12	CADAVONA, ED		21.29			Negotiable
332023		02-AUG-12	CALIFORNIA ASSOCIATION OF PUBLIC INFORMATION OFFICIALS		225.00			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332024		02-AUG-12	CALIFORNIA BARRICADE INC		2,925.00			Negotiable
332025		02-AUG-12	CAMERON WELDING SUPPLY		8,722.16			Negotiable
332026		02-AUG-12	CANCELLIER, PETER		24.58			Negotiable
332027		02-AUG-12	CAPTIVE AUDIENCE MARKETING INC.		85.12			Negotiable
332028		02-AUG-12	CARJUZZA, KIM		37.21			Negotiable
332029		02-AUG-12	CHO, NATHAN		24.18			Negotiable
332030		02-AUG-12	CITIGROUP GLOBAL MARKETS INC.		3,710.86			Negotiable
332031		02-AUG-12	COASTAL IGNITION & CONTROLS, INC		146.01			Negotiable
332032		02-AUG-12	COMMERCIAL CLEANING SYSTEMS INC		10,733.99			Negotiable
332033		02-AUG-12	CONDITION MONITORING SERVICES INC		5,886.25			Negotiable
332034		02-AUG-12	CONEYBEARE INC		7,709.02			Negotiable
332035		02-AUG-12	CONTROLLED KEY SYSTEMS INC		294.50			Negotiable
332036		02-AUG-12	COX COMMUNICATIONS		222.26			Negotiable
332037		02-AUG-12	D & G SIGNS		130.38			Negotiable
332038		02-AUG-12	DELPHIN COMPUTER SUPPLY		643.27			Negotiable
332039		02-AUG-12	DMYTRYSHYN, TODD		23.27			Negotiable

332040	02-AUG-12	DUCKWORTH, CRAIG	31.73	Negotiable
332041	02-AUG-12	ECOLOGY CONTROL INDUSTRIES	5,278.86	Negotiable
332042	02-AUG-12	ENCHEFF, JESSICA	12.02	Negotiable
332043	02-AUG-12	ENDRESS AND HAUSER INC	2,372.86	Negotiable
332044	02-AUG-12	ENVIRON INTERNATIONAL CORP.	6,528.01	Negotiable
332045	02-AUG-12	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	28,111.42	Negotiable
332046	02-AUG-12	ENVIRONMENTAL EXPRESS INC	2,287.39	Negotiable
332047	02-AUG-12	ESKANDANIAN, PAYMON	11.58	Negotiable
332048	02-AUG-12	EXPRESSAIR	82.00	Negotiable
332049	02-AUG-12	FARRELL & ASSOCIATES	319.80	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 3  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332050		02-AUG-12	FERGUSON WATERWORKS		4,627.86			Negotiable
332051		02-AUG-12	FESSLER, RYAN		33.69			Negotiable
332052		02-AUG-12	FIRST CHOICE SERVICES		725.76			Negotiable
332053		02-AUG-12	FIRST HEALTH LIFE AND HEALTH INSURANCE COMPANY		38.70			Negotiable
332054		02-AUG-12	FISHER SCIENTIFIC COMPANY LLC		284.90			Negotiable
332055		02-AUG-12	FMH CORPORATION		1,570.00			Negotiable
332056		02-AUG-12	FORTIS RESOURCE PARTNERS INC		7,046.40			Negotiable
332057		02-AUG-12	FRANCHISE TAX BOARD		317.83			Negotiable
332058		02-AUG-12	FRANK LA PLACA EXTERMINATING INC		175.00			Negotiable
332059		02-AUG-12	Gabriel Vargas		1,315.37			Negotiable
332060		02-AUG-12	GALLAHER, GEORGIA		37.25			Negotiable
332061		02-AUG-12	GANAHL LUMBER CO.		1,258.06			Negotiable
332062		02-AUG-12	GE ANALYTICAL INSTRUMENTS INC		8,732.90			Negotiable
332063		02-AUG-12	GENTERRA CONSULTANTS INC		172.68			Negotiable
332064		02-AUG-12	GLOBALSTAR INC		169.12			Negotiable
332065		02-AUG-12	GRAINGER		2,608.73			Negotiable
332066		02-AUG-12	GRIFFIN DEWATERING CORPORATION		2,547.89			Negotiable
332067		02-AUG-12	GUPTA, SANTOSH		128.14			Negotiable
332068		02-AUG-12	GUZMAN, RUBEN		49.70			Negotiable
332069		02-AUG-12	HACH COMPANY		4,773.26			Negotiable
332070		02-AUG-12	HEARTLAND BUSINESS CREDIT CORPORATION		570.58			Negotiable
332071		02-AUG-12	HILL BROTHERS CHEMICAL COMPANY		4,449.16			Negotiable
332072		02-AUG-12	HOME DEPOT USA INC		379.73			Negotiable
332073		02-AUG-12	HOPKINS TECHNICAL PRODUCTS INC		1,237.49			Negotiable
332074		02-AUG-12	HSG INC		1,462.00			Negotiable
332075		02-AUG-12	HUMANA INSURANCE COMPANY		20.90			Negotiable
332076		02-AUG-12	IBRAHIM, MAHA		135.33			Negotiable
332077		02-AUG-12	INLAND POTABLE SERVICES, INC		69,103.00			Negotiable
332078		02-AUG-12	INTERIOR DEMOLITION INC		99.07			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 4  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332079		02-AUG-12	IRVINE PIPE & SUPPLY INC		765.02			Negotiable
332080		02-AUG-12	IRWD-PETTY CASH CUSTODIAN		710.47			Negotiable
332081		02-AUG-12	IWATA, LISA		1,468.98			Negotiable
332082		02-AUG-12	J.P. MORGAN SECURITIES, INC.		22,377.05			Negotiable
332083		02-AUG-12	JCI JONES		10,493.32			Negotiable

332084	02-AUG-12	CHEMICALS INC		99.90	Negotiable
332085	02-AUG-12	JOHN MICHAEL COVAS KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		2,575.00	Negotiable
332086	02-AUG-12	KONECRANES INC		320.00	Negotiable
332087	02-AUG-12	KOTAS, LAURIE		339.07	Negotiable
332088	02-AUG-12	KS DIRECT LLC		9,526.87	Negotiable
332089	02-AUG-12	LAGUNA BEACH COUNTY WATER DISTRICT		1,496.62	Negotiable
332090	02-AUG-12	LGC GEOTECHNICAL, INC.		775.00	Negotiable
332091	02-AUG-12	LICTAWA, ROBERT		31.73	Negotiable
332092	02-AUG-12	LOFMAN, BO		48.07	Negotiable
332093	02-AUG-12	LR8 OWNER, LLC		290.00	Negotiable
332094	02-AUG-12	LUBRICATION ENGINEERS, INC.		2,801.93	Negotiable
332095	02-AUG-12	MACIELLO, CHRISTI		235.56	Negotiable
332096	02-AUG-12	MBC APPLIED ENVIRONMENTAL SCIENCES		1,250.00	Negotiable
332097	02-AUG-12	MC MASTER CARR SUPPLY CO		203.42	Negotiable
332098	02-AUG-12	MISCOWATER		7,873.62	Negotiable
332099	02-AUG-12	MOUSE GRAPHICS		513.54	Negotiable
332100	02-AUG-12	MUNICIPAL MAINTENANCE EQUIPMENT INC		8,867.95	Negotiable
332101	02-AUG-12	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY		684,863.25	Negotiable
332102	02-AUG-12	NATIONAL READY MIXED CONCRETE CO		3,321.39	Negotiable
332103	02-AUG-12	NEIMAN, MAURICE		17.14	Negotiable
332104	02-AUG-12	NEPTUNE TECHNOLOGY		48,293.55	Negotiable
332105	02-AUG-12	NEWELL, DEBRA		48.36	Negotiable
332106	02-AUG-12	OLIN CORPORATION		7,508.75	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 5  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332107		02-AUG-12	ON ASSIGNMENT LAB SUPPORT		6,130.64			Negotiable
332108		02-AUG-12	ONESOURCE DISTRIBUTORS LLC		7,404.65			Negotiable
332109		02-AUG-12	ORANGE COUNTY TREASURER		70.00			Negotiable
332110		02-AUG-12	OWEN, MARTHA		17.09			Negotiable
332111		02-AUG-12	PACIFIC TECHNOLOGIES INC		13,265.51			Negotiable
332112		02-AUG-12	PAULUS ENGINEERING INC		11,497.48			Negotiable
332113		02-AUG-12	PEARPOINT		284.59			Negotiable
332114		02-AUG-12	PERKINELMER HEALTH SCIENCES INC		3,236.89			Negotiable
332115		02-AUG-12	PINNACLE TOWERS LLC		560.99			Negotiable
332116		02-AUG-12	PRAXAIR DISTRIBUTION INC		1,565.69			Negotiable
332117		02-AUG-12	PRESLEY, MARY		473.56			Negotiable
332118		02-AUG-12	PUBLIC STORAGE		1,528.37			Negotiable
332119		02-AUG-12	QUINN POWER SYSTEMS		513.74			Negotiable
332120		02-AUG-12	R&B AUTOMATION INC		8,442.28			Negotiable
332121		02-AUG-12	RALPH ANDERSEN & ASSOCIATES		6,125.00			Negotiable
332122		02-AUG-12	RAM AIR ENGINEERING INC		235.00			Negotiable
332123		02-AUG-12	RESE, CHRIS		19.77			Negotiable
332124		02-AUG-12	ROYAL PLYWOOD COMPANY		1,296.77			Negotiable
332125		02-AUG-12	SANDERS PAVING INC		7,176.00			Negotiable
332126		02-AUG-12	SANTA ANA BLUE PRINT		1,380.04			Negotiable
332127		02-AUG-12	SCHINDLER ELEVATOR CORPORATION		176.40			Negotiable
332128		02-AUG-12	SENAVATIN, SUPAKARN		42.92			Negotiable
332129		02-AUG-12	SHAFER, JONATHAN		59.85			Negotiable
332130		02-AUG-12	SHAMROCK SUPPLY CO INC		1,208.84			Negotiable
332131		02-AUG-12	SHEKARAMIZ, MIKE		21.49			Negotiable
332132		02-AUG-12	SIGNATURE FLOORING INC		4,642.40			Negotiable
332133		02-AUG-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		5,871.34			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 6  
 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								
332134		02-AUG-12	SOUTHERN CALIFORNIA EDISON COMPANY		492,824.76			Negotiable
332135		02-AUG-12	SUCCESS MANAGEMENT		27.14			Negotiable
332136		02-AUG-12	SUKUT CONSTRUCTION INC		993.68			Negotiable
332137		02-AUG-12	SUPERMEDIA LLC		71.25			Negotiable
332138		02-AUG-12	SYNAGRO SOUTH, LLC		19,705.00			Negotiable
332139		02-AUG-12	T AND S LARSEN MAINTENANCE		540.00			Negotiable
332140		02-AUG-12	TEKDRAULICS		2,703.00			Negotiable
332141		02-AUG-12	THE GAS COMPANY		3,068.03			Negotiable
332142		02-AUG-12	THYSSENKRUPP ELEVATOR		210.87			Negotiable
332143		02-AUG-12	TRAN, JOHN		25.71			Negotiable
332144		02-AUG-12	TROPICAL PLAZA NURSERY INC		16,990.70			Negotiable
332145		02-AUG-12	TRUGREEN LANDCARE LLC		200.00			Negotiable
332146		02-AUG-12	TUOMINEN, KENT		33.74			Negotiable
332147		02-AUG-12	TURBEDSKY, ERIC		50.14			Negotiable
332148		02-AUG-12	UNITED PARCEL SERVICE INC		41.38			Negotiable
332149		02-AUG-12	UNITED STATES POST OFFICE		25,000.00			Negotiable
332150		02-AUG-12	US BANK NAT'L ASSOC N.DAKOTA		1,250.00			Negotiable
332151		02-AUG-12	US PEROXIDE LLC		18,806.75			Negotiable
332152		02-AUG-12	UTILITY SYSTEMS SCIENCE & SOFTWARE INC.		840.00			Negotiable
332153		02-AUG-12	VERIZON CALIFORNIA INC		228.36			Negotiable
332154		02-AUG-12	VERIZON WIRELESS SERVICES LLC		6,680.31			Negotiable
332155		02-AUG-12	VULCAN MATERIALS COMPANY		2,523.96			Negotiable
332156		02-AUG-12	VWR INTERNATIONAL, LLC		415.44			Negotiable
332157		02-AUG-12	WASTE MANAGEMENT OF ORANGE COUNTY		1,610.14			Negotiable
332158		02-AUG-12	WECK LABORATORIES INC		2,998.00			Negotiable
332159		02-AUG-12	WEST COAST SAND & GRAVEL INC.		3,454.13			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 7  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332160		02-AUG-12	WOODRUFF, SPRADLIN & SMART APC		140.00			Negotiable
332161		02-AUG-12	WU, WANMEI		34.17			Negotiable
332162		02-AUG-12	YSI INCORPORATED		650.46			Negotiable
332163		02-AUG-12	Amy McNulty		105.79			Negotiable
332164		02-AUG-12	Carolyn German		137.94			Negotiable
332165		02-AUG-12	Dawn Jordan		12.00			Negotiable
332166		02-AUG-12	Debbie Kanoff		198.89			Negotiable
332167		02-AUG-12	Franklin Soto		6.60			Negotiable
332168		02-AUG-12	Gregory Heiertz		125.00			Negotiable
332169		02-AUG-12	Jenny Pan		24.80			Negotiable
332170		02-AUG-12	Jose Silva		150.00			Negotiable
332171		02-AUG-12	Martha Ramos		258.63			Negotiable
332172		02-AUG-12	Rodolfo Perez		12.10			Negotiable
332173		02-AUG-12	Steven Malloy		642.37			Negotiable
332174		07-AUG-12	MARSH RISK & INSURANCE SVCS	LOS ANGELES ORANGE	9,042.00			Negotiable
332175		09-AUG-12	HILLS, JOHN		900.00			Negotiable
332176		09-AUG-12	Fiona Sanchez		90.75			Negotiable
332177		09-AUG-12	Michael Hoolihan		90.75			Negotiable
332178		09-AUG-12	Truc Mai Bertsch		18.64			Negotiable
332179		09-AUG-12	3M COMPANY		143.00			Negotiable
332180		09-AUG-12	A & Y ASPHALT CONTRACTORS INC		20,777.00			Negotiable
332181		09-AUG-12	ACCURATE AIR ENGINEERING INC		3,520.97			Negotiable
332182		09-AUG-12	ACTION ELECTRIC CORP		346.52			Negotiable

332183	09-AUG-12	AERATION INDUSTRIES INTERNATIONAL INC	7,000.00	Negotiable
332184	09-AUG-12	APTABI ARASH	16.04	Negotiable
332185	09-AUG-12	AIRGAS-WEST, INC.	1,938.14	Negotiable
332186	09-AUG-12	AMERICAN MESSAGING SERVICES LLC	297.73	Negotiable
332187	09-AUG-12	ANGLIN KEVIN	35.39	Negotiable
332188	09-AUG-12	ANTHEM BLUE CROSS	1,474.40	Negotiable
332189	09-AUG-12	ARCADIS U.S., INC.	4,066.00	Negotiable
332190	09-AUG-12	ARMORCAST PRODUCTS COMPANY	15,874.60	Negotiable
332191	09-AUG-12	AT&T	243.00	Negotiable
332192	09-AUG-12	AT&T	24,088.24	Negotiable
332193	09-AUG-12	AT&T	2,893.28	Negotiable
332194	09-AUG-12	BANK OF AMERICA MERRILL LYNCH	813.25	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 8  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332195		09-AUG-12	BATTERY SPECIALTIES		105.60			Negotiable
332196		09-AUG-12	BECKMAN COULTER INC		1,606.50			Negotiable
332197		09-AUG-12	BORGEN HEAVY EQUIPMENT REPAIR,		555.00			Negotiable
332198		09-AUG-12	BOYD & ASSOCIATES		850.00			Negotiable
332199		09-AUG-12	BROWNSTEIN MARK		419.18			Negotiable
332200		09-AUG-12	CAL WATER PURIFICATION		80.00			Negotiable
332201		09-AUG-12	CALIFORNIA BARRICADE INC		13,236.04			Negotiable
332202		09-AUG-12	CALIFORNIA UTILITY EQUIPMENT INC.		4,578.52			Negotiable
332203		09-AUG-12	CALTRANS DISTRICT 12		64,500.61			Negotiable
332204		09-AUG-12	CANON BUSINESS SOLUTIONS INC		1,389.97			Negotiable
332205		09-AUG-12	CANON BUSINESS SOLUTIONS INC		12,289.58			Negotiable
332206		09-AUG-12	CANON FINANCIAL SERVICES INC		7,090.20			Negotiable
332207		09-AUG-12	CAPTIVE AUDIENCE MARKETING INC.		85.12			Negotiable
332208		09-AUG-12	CDW GOVERNMENT LLC		3,995.37			Negotiable
332209		09-AUG-12	CH2M HILL, INC		29,141.00			Negotiable
332210		09-AUG-12	CHANG, ALBERT		120.25			Negotiable
332211		09-AUG-12	CHEM TECH INTERNATIONAL INC		6,261.20			Negotiable
332212		09-AUG-12	CITY OF IRVINE		396.43			Negotiable
332213		09-AUG-12	CITY OF LAKE FOREST		15,798.12			Negotiable
332214		09-AUG-12	CITY OF ORANGE		906.50			Negotiable
332215		09-AUG-12	CLEARINGHOUSE		528.45			Negotiable
332216		09-AUG-12	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
332217		09-AUG-12	COMMERCIAL DOOR OF ORANGE COUNTY, INC.		1,675.23			Negotiable
332218		09-AUG-12	CONYBEARE INC		3,945.70			Negotiable
332219		09-AUG-12	COUSINS, HUGH		306.46			Negotiable
332220		09-AUG-12	COX COMMUNICATIONS		1,245.20			Negotiable
332221		09-AUG-12	CREDENTIAL CHECK CORPORATION		83.82			Negotiable
332222		09-AUG-12	CROSSBRIDGE SOLUTIONS INC		114.63			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332223		09-AUG-12	CRUZ MANNY D		128.03			Negotiable
332224		09-AUG-12	CSAC EXCESS INSURANCE AUTHORITY		552,894.00			Negotiable
332225		09-AUG-12	D & H WATER SYSTEMS INC.		2,760.13			Negotiable
332226		09-AUG-12	DAN'S MACHINE TOOL, INC		219.34			Negotiable
332227		09-AUG-12	DCSE INC		5,430.00			Negotiable
332228		09-AUG-12	DIONEX CORPORATION		12,981.12			Negotiable

332229	09-AUG-12	DME INC	4,137.61	Negotiable
332230	09-AUG-12	DUDEK	1,755.00	Negotiable
332231	09-AUG-12	ELECTRICAL SYSTEMS ENGINEERING	30,050.00	Negotiable
332232	09-AUG-12	ENVIRONMENTAL RESOURCE ASSOCIATES	131.65	Negotiable
332233	09-AUG-12	ESA PWA	2,970.04	Negotiable
332234	09-AUG-12	FARRELL & ASSOCIATES	249.41	Negotiable
332235	09-AUG-12	FERGUSON WATERWORKS	19,806.98	Negotiable
332236	09-AUG-12	FIDELITY SECURITY LIFE INSURANCE COMPANY	5,725.68	Negotiable
332237	09-AUG-12	FISHER SCIENTIFIC COMPANY LLC	2,849.78	Negotiable
332238	09-AUG-12	FLW SERVICE CORPORATION	187.50	Negotiable
332239	09-AUG-12	FORTIS RESOURCE PARTNERS INC	8,935.20	Negotiable
332240	09-AUG-12	FRANCHISE TAX BOARD	150.00	Negotiable
332241	09-AUG-12	GATEWAY PACIFIC CONTRACTORS, INC.	120,382.51	Negotiable
332242	09-AUG-12	GMU GEOTECHNICAL INC	765.00	Negotiable
332243	09-AUG-12	GRAINGER	4,520.68	Negotiable
332244	09-AUG-12	HARMSWORTH ASSOCIATES	632.50	Negotiable
332245	09-AUG-12	HILL BROTHERS CHEMICAL COMPANY	20,886.20	Negotiable
332246	09-AUG-12	HOME DEPOT USA INC	631.99	Negotiable
332247	09-AUG-12	II FUELS INC	45,999.18	Negotiable
332248	09-AUG-12	INTERNAL REVENUE SERVICE	1,462.79	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332249		09-AUG-12	ION WAVE TECHNOLOGIES		11,000.00			Negotiable
332250		09-AUG-12	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,593.96			Negotiable
332251		09-AUG-12	IRVINE PIPE & SUPPLY INC		276.70			Negotiable
332252		09-AUG-12	IRVINE UNIFIED SCHOOL DISTRICT		38,877.54			Negotiable
332253		09-AUG-12	JOHN G. ALEVIZOS D.O. INC.		232.00			Negotiable
332254		09-AUG-12	JONES & STOKES ASSOCIATES, INC		5,574.66			Negotiable
332255		09-AUG-12	KAZARIANS & ASSOCIATES, INC.		2,052.50			Negotiable
332256		09-AUG-12	KELLY SERVICES INC		3,277.12			Negotiable
332257		09-AUG-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		2,075.00			Negotiable
332258		09-AUG-12	KIRI, URI		42.38			Negotiable
332259		09-AUG-12	KONECRANES INC		2,750.00			Negotiable
332260		09-AUG-12	LAKE FOREST II MHO		1,901.18			Negotiable
332261		09-AUG-12	LEADERSHIP TOMORROW		1,400.00			Negotiable
332262		09-AUG-12	LGC GEOTECHNICAL, INC.		4,110.00			Negotiable
332263		09-AUG-12	LSA ASSOCIATES INC		190.00			Negotiable
332264		09-AUG-12	MC MASTER CARR SUPPLY CO		96.07			Negotiable
332265		09-AUG-12	MCR TECHNOLOGIES INC		6,013.05			Negotiable
332266		09-AUG-12	MERCHANTS LANDSCAPE SERVICES INC		7,280.00			Negotiable
332267		09-AUG-12	MOUSE GRAPHICS		214.96			Negotiable
332268		09-AUG-12	NASIRY, LADAN		27.04			Negotiable
332269		09-AUG-12	NATIONAL READY MIXED CONCRETE CO		5,090.44			Negotiable
332270		09-AUG-12	NATURES IMAGE INC		3,156.42			Negotiable
332271		09-AUG-12	NINYO & MOORE		3,924.00			Negotiable
332272		09-AUG-12	NMG GEOTECHNICAL INC		21,227.20			Negotiable
332273		09-AUG-12	OLIN CORPORATION		7,626.97			Negotiable
332274		09-AUG-12	ON ASSIGNMENT LAB SUPPORT		2,349.56			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 11  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )

Payment Type: All

Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332275		09-AUG-12	ONESOURCE		265.01			Negotiable
332276		09-AUG-12	DISTRIBUTORS LLC		5,720.04			Negotiable
332277		09-AUG-12	PACIFIC PARTS & CONTROLS INC		952.86			Negotiable
332278		09-AUG-12	PAPER DEPOT DOCUMENT DESTRUCTION LLC		119,454.50			Negotiable
332279		09-AUG-12	PASCAL & LUDWIG CONSTRUCTORS		2,655.00			Negotiable
332280		09-AUG-12	PAUL E BRADLEY INC		27,464.04			Negotiable
332281		09-AUG-12	PAULUS ENGINEERING INC		253.17			Negotiable
332282		09-AUG-12	PEARPOINT PERKINELMER HEALTH SCIENCES INC		51,536.45			Negotiable
332283		09-AUG-12	PERS LONG TERM CARE		1,235.35			Negotiable
332284		09-AUG-12	POOLE SHAUNA D		23.89			Negotiable
332285		09-AUG-12	PRAXAIR DISTRIBUTION INC		224.11			Negotiable
332286		09-AUG-12	PSOMAS		486.00			Negotiable
332287		09-AUG-12	PURE EFFECT INC		5,945.00			Negotiable
332288		09-AUG-12	QUICKEL PAVING INC		5,887.00			Negotiable
332289		09-AUG-12	QZINA SPECIALTY FOODS		801.86			Negotiable
332290		09-AUG-12	RAINBOW DISPOSAL CO INC		482.22			Negotiable
332291		09-AUG-12	RBF CONSULTING		66,003.44			Negotiable
332292		09-AUG-12	RESPONSE ENVELOPE, INC		403.52			Negotiable
332293		09-AUG-12	ROBBINS GERALDINE		46.59			Negotiable
332294		09-AUG-12	RRM DESIGN GROUP		6,860.00			Negotiable
332295		09-AUG-12	SANDERS PAVING INC		35,750.00			Negotiable
332296		09-AUG-12	SANTA ANA BLUE PRINT		1,151.60			Negotiable
332297		09-AUG-12	SANTA ANA CITY OF		39,520.74			Negotiable
332298		09-AUG-12	SANTA MARGARITA WATER DISTRICT		10,898.30			Negotiable
332299		09-AUG-12	SHAMROCK SUPPLY CO INC		1,170.53			Negotiable
332300		09-AUG-12	SOUTH COAST WATER CO.		256.66			Negotiable
332301		09-AUG-12	SOUTH COAST WATER DISTRICT		2,703.48			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332302		09-AUG-12	SOUTHERN CALIFORNIA EDISON COMPANY		8,892.42			Negotiable
332303		09-AUG-12	SOUTHERN CALIFORNIA WATER COMMITTEE INC		5,000.00			Negotiable
332304		09-AUG-12	SPARKLETTS		176.88			Negotiable
332305		09-AUG-12	SPRATT SUSAN		7.94			Negotiable
332306		09-AUG-12	SS MECHANICAL CORPORATION		13,523.25			Negotiable
332307		09-AUG-12	STANTEC CONSULTING SERVICES INC.		3,153.30			Negotiable
332308		09-AUG-12	SULLY-MILLER CONTRACTING CO.		276,335.47			Negotiable
332309		09-AUG-12	SULLY-MILLER CONTRACTING CO.		14,543.97			Negotiable
332310		09-AUG-12	TESTAMERICA LABORATORIES, INC		21.00			Negotiable
332311		09-AUG-12	TETRA TECH, INC		10,622.55			Negotiable
332312		09-AUG-12	THE FURMAN GROUP		10,045.00			Negotiable
332313		09-AUG-12	THOMAS HARDER & CO		1,447.50			Negotiable
332314		09-AUG-12	TROPICAL PLAZA NURSERY INC		8,230.91			Negotiable
332315		09-AUG-12	TRUGREEN LANDCARE LLC		354.25			Negotiable
332316		09-AUG-12	U S EQUIPMENT CO INC		625.10			Negotiable
332317		09-AUG-12	ULTRA SCIENTIFIC		839.59			Negotiable
332318		09-AUG-12	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA		613.50			Negotiable



332319	09-AUG-12	UNITED PARCEL SERVICE INC		35.11		Negotiable
332320	09-AUG-12	UNITED PARTITION SYSTEMS INC		5,383.95		Negotiable
332321	09-AUG-12	URS CORPORATION		45,528.40		Negotiable
332322	09-AUG-12	US BANK NAT'L ASSOC N.DAKOTA		1,250.00		Negotiable
332323	09-AUG-12	US PEROXIDE LLC		16,706.11		Negotiable
332324	09-AUG-12	USA MOBILITY WIRELESS INC		70.83		Negotiable
332325	09-AUG-12	VULCAN MATERIALS COMPANY		2,684.42		Negotiable
332326	09-AUG-12	WATERLINE TECHNOLOGIES INC		16,489.19		Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332327		09-AUG-12	WECK LABORATORIES INC		2,180.00			Negotiable
332328		09-AUG-12	WESTERN EXTERMINATOR COMPANY		1,422.00			Negotiable
332329		09-AUG-12	WIRELESS WATCHDOGS LLC		1,052.00			Negotiable
332330		09-AUG-12	XYLEM WATER SOLUTIONS USA INC		1,438.81			Negotiable
332331		10-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	16,650.00			Negotiable
332332		10-AUG-12	ACTION ELECTRIC CORP		706.98			Negotiable
332333		10-AUG-12	CH2M HILL, INC		2,415.00			Negotiable
332334		10-AUG-12	CHANG, FENG-CHANG		155.54			Negotiable
332335		10-AUG-12	CHEN, FANGI		25.32			Negotiable
332336		10-AUG-12	CITY OF TUSTIN		218.77			Negotiable
332337		10-AUG-12	CONEYBEARE INC		3,166.80			Negotiable
332338		10-AUG-12	CPWH		33.15			Negotiable
332339		10-AUG-12	DE MOULIN, DIANE		79.00			Negotiable
332340		10-AUG-12	EDWARDS, CHRIS		69.07			Negotiable
332341		10-AUG-12	FERGUSON WATERWORKS		4,228.11			Negotiable
332342		10-AUG-12	FERGUSON, DAVID		5,747.20			Negotiable
332343		10-AUG-12	FOSTER, LAURA		32.95			Negotiable
332344		10-AUG-12	FOUNTAIN, THOMAS		27.89			Negotiable
332345		10-AUG-12	FT ZIEBARTH COMPANY		450,829.05			Negotiable
332346		10-AUG-12	GEE, BRIAN		10.65			Negotiable
332347		10-AUG-12	HELP/SYSTEMS-IL, LLC		2,435.00			Negotiable
332348		10-AUG-12	HOPFER, JEAN		61.60			Negotiable
332349		10-AUG-12	HUNG, SHU-SHEN		26.56			Negotiable
332350		10-AUG-12	HUNSAKER & ASSOCIATES IRVINE		896.00			Negotiable
332351		10-AUG-12	KIM, GRACE		25.65			Negotiable
332352		10-AUG-12	KING, THOMAS		12.02			Negotiable
332353		10-AUG-12	KS DIRECT LLC		614.18			Negotiable
332354		10-AUG-12	L & B REGIONAL INVESTMENT INC		26.56			Negotiable
332355		10-AUG-12	MALNOVE, ADAM		140.92			Negotiable
332356		10-AUG-12	MANEY, JOYCE L		40.56			Negotiable
332357		10-AUG-12	MONTRES CORUM USA		183.08			Negotiable
332358		10-AUG-12	MSM FINANCIAL		53.01			Negotiable
332359		10-AUG-12	MUTUAL PROPANE		96.02			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 14  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332360		10-AUG-12	NJB INVESTMENTS		62.38			Negotiable
332361		10-AUG-12	ORANGE COUNTY TREASURER		35.00			Negotiable
332362		10-AUG-12	ORTIZ, INGRID		175.00			Negotiable
332363		10-AUG-12	PARK, MONICA		22.36			Negotiable
332364		10-AUG-12	REED, JAMES D		1,935.89			Negotiable
332365		10-AUG-12	SALAMAT FARA		25.65			Negotiable
332366		10-AUG-12	STRAUB PROPERTIES		256.01			Negotiable
332367		10-AUG-12	TOP PRODUCERS ROYALTY		31.11			Negotiable
332368		10-AUG-12	TRUCPARCO		280.81			Negotiable
332369		10-AUG-12	WEINBERG, GAYLEE		28.38			Negotiable
332370		10-AUG-12	WILSON, GANTRY		26.56			Negotiable

332371	10-AUG-12	WU, CHUN-TE		45.45	Negotiable
332372	10-AUG-12	FEDEX	PAY	361.50	Negotiable
332373	10-AUG-12	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	1,693,237.81	Voided
332374	16-AUG-12	A & Y ASPHALT CONTRACTORS INC		960.00	Negotiable
332375	16-AUG-12	AGILENT TECHNOLOGIES, INC.		35,358.00	Negotiable
332376	16-AUG-12	ALI POUR NASSRIN		26.56	Negotiable
332377	16-AUG-12	APPLIED TECHNOLOGY GROUP INC		1,462.08	Negotiable
332378	16-AUG-12	AQUA-METRIC SALES COMPANY		5,926.25	Negotiable
332379	16-AUG-12	AQUILANTI, CHRISTIN		36.41	Negotiable
332380	16-AUG-12	ARCADIS U.S., INC.		10,623.05	Negotiable
332381	16-AUG-12	ARIA PROPERTY MANAGEMENT		25.65	Negotiable
332382	16-AUG-12	ASHER, DAWN		29.29	Negotiable
332383	16-AUG-12	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		31,935.19	Negotiable
332384	16-AUG-12	AT&T		1,881.26	Negotiable
332385	16-AUG-12	BANDUCCI, DEREK		25.07	Negotiable
332386	16-AUG-12	BARNES GROUP INC		153.60	Negotiable
332387	16-AUG-12	BATTERY SPECIALTIES		201.12	Negotiable
332388	16-AUG-12	BERTONI, JENNIFER		60.32	Negotiable
332389	16-AUG-12	BORCHARD SURVEYING & MAPPING, INC.		2,857.50	Negotiable
332390	16-AUG-12	BRENNIAG PACIFIC INC		21,837.61	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 15  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332391		16-AUG-12	BUTIER ENGINEERING INC		19,398.00			Negotiable
332392		16-AUG-12	C WELLS PIPELINE MATERIALS INC		4,312.17			Negotiable
332393		16-AUG-12	CALIFORNIA BARRICADE INC		2,223.42			Negotiable
332394		16-AUG-12	CALIFORNIA MUNICIPAL UTILITIES		9,491.00			Negotiable
332395		16-AUG-12	CAMERON, BRIAN		45.33			Negotiable
332396		16-AUG-12	CAPPON, SUZANNE		15.00			Negotiable
332397		16-AUG-12	CARL WARREN & CO		158.36			Negotiable
332398		16-AUG-12	CHEN, PATTY		35.68			Negotiable
332399		16-AUG-12	CHIU, EDWARD		44.60			Negotiable
332400		16-AUG-12	CITY OF IRVINE		550.50			Negotiable
332401		16-AUG-12	CITY OF TUSTIN		385.08			Negotiable
332402		16-AUG-12	CIVILSOURCE, INC.		29,095.07			Negotiable
332403		16-AUG-12	CLA-VAL COMPANY		4,382.70			Negotiable
332404		16-AUG-12	CLEAN ENERGY FUELS		934.66			Negotiable
332405		16-AUG-12	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
332406		16-AUG-12	CONEYBEARE INC		6,700.68			Negotiable
332407		16-AUG-12	CONTE, DANIELLE		43.30			Negotiable
332408		16-AUG-12	CR & R INCORPORATED		12.20			Negotiable
332409		16-AUG-12	CROSSBRIDGE SOLUTIONS INC		114.63			Negotiable
332410		16-AUG-12	CSIRA, DAVE		13.68			Negotiable
332411		16-AUG-12	DEE JASPAR & ASSOCIATES, INC.		23,150.48			Negotiable
332412		16-AUG-12	DIONEX CORPORATION		9,659.04			Negotiable
332413		16-AUG-12	DON WILSON BUILDERS		35.40			Negotiable
332414		16-AUG-12	EAST ORANGE COUNTY WATER DISTRICT		1,314.43			Negotiable
332415		16-AUG-12	EI&C ENGINEERING INC		11,400.00			Negotiable
332416		16-AUG-12	EMPLOYEE BENEFIT SPECIALIST, INC		680.00			Negotiable
332417		16-AUG-12	EVOLVE MEDIA		2,816.00			Negotiable
332418		16-AUG-12	EXPRESSAIR		74.00			Negotiable
332419		16-AUG-12	FEDEX		704.84			Negotiable
332420		16-AUG-12	FERGUSON WATERWORKS		664.69			Negotiable
332421		16-AUG-12	FISHER SCIENTIFIC COMPANY LLC		8,698.70			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332422		16-AUG-12	FIVE POINT PARTNERS LLC		40,407.45			Negotiable
332423		16-AUG-12	FOOTHILL/EASTERN TRANSPORTATION		131.69			Negotiable
332424		16-AUG-12	GAMEZ, MIRTA		45.55			Negotiable
332425		16-AUG-12	GANAHL LUMBER CO.		7,875.02			Negotiable
332426		16-AUG-12	GATEWAY INC		51.46			Negotiable
332427		16-AUG-12	GATEWAY INC		70.04			Negotiable
332428		16-AUG-12	GCI CONSTRUCTION, INC.		33,319.75			Negotiable
332429		16-AUG-12	GRAINGER		4,633.44			Negotiable
332430		16-AUG-12	HANSON, PAUL		23.27			Negotiable
332431		16-AUG-12	HARPER & ASSOCIATES ENGINEERING INC		5,425.00			Negotiable
332432		16-AUG-12	HARRINGTON INDUSTRIAL PLASTICS LLC		1,703.90			Negotiable
332433		16-AUG-12	HDR ENGINEERING INC		173,921.04			Negotiable
332434		16-AUG-12	HILL BROTHERS CHEMICAL COMPANY		12,329.37			Negotiable
332435		16-AUG-12	HOME DEPOT USA INC		948.40			Negotiable
332436		16-AUG-12	II FUELS INC		25,886.82			Negotiable
332437		16-AUG-12	INDUSTRIAL METAL SUPPLY CO		33.56			Negotiable
332438		16-AUG-12	INNOVYZE		8,000.00			Negotiable
332439		16-AUG-12	IRVINE PIPE & SUPPLY INC		1,954.71			Negotiable
332440		16-AUG-12	JCI JONES CHEMICALS INC		10,858.40			Negotiable
332441		16-AUG-12	JOHN G. ALEVIZOS D.O. INC.		127.00			Negotiable
332442		16-AUG-12	KANG, WOUNGHEE		24.52			Negotiable
332443		16-AUG-12	KB HOMES		28.38			Negotiable
332444		16-AUG-12	KFC		78.10			Negotiable
332445		16-AUG-12	KHOUIR, RUSSELL		32.21			Negotiable
332446		16-AUG-12	KNOCHE, CHRIS		52.49			Negotiable
332447		16-AUG-12	KS DIRECT LLC		2,129.14			Negotiable
332448		16-AUG-12	LAGUNA BEACH COUNTY WATER DISTRICT		2,123.41			Negotiable
332449		16-AUG-12	LOHMANN, KRIS		28.69			Negotiable
332450		16-AUG-12	LOPEZ, CORINA		20.89			Negotiable
332451		16-AUG-12	MALLFINANCE INC		9,912.62			Negotiable
332452		16-AUG-12	MALCOLM PIRNIE INC		78,736.83			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332453		16-AUG-12	MAMO REAL ESTATE INC		20.08			Negotiable
332454		16-AUG-12	MAPE, JEREMY		31.22			Negotiable
332455		16-AUG-12	MAPES, ROCHELLE		30.51			Negotiable
332456		16-AUG-12	MARMALADE CAFE		81.60			Negotiable
332457		16-AUG-12	MC MASTER CARR SUPPLY CO		1,832.29			Negotiable
332458		16-AUG-12	MCCLAIN'S FURNITURE INC		1,880.00			Negotiable
332459		16-AUG-12	METTLER-TOLEDO INC		761.50			Negotiable
332460		16-AUG-12	MIDDLETON MONITA		47.78			Negotiable
332461		16-AUG-12	MOODY'S INVESTORS SERVICE INC		5,000.00			Negotiable
332462		16-AUG-12	MSC INDUSTRIAL SUPPLY CO		387.56			Negotiable
332463		16-AUG-12	MSM FINANCIAL		31.73			Negotiable
332464		16-AUG-12	MUTUAL PROPANE		18.00			Negotiable
332465		16-AUG-12	NASCO MODESTO		754.00			Negotiable
332466		16-AUG-12	NATIONAL READY MIXED CONCRETE CO		8,686.53			Negotiable
332467		16-AUG-12	NEWAGE INDUSTRIES INC		547.74			Negotiable
332468		16-AUG-12	NEWPORT BEACH, CITY OF		4,842.00			Negotiable
332469		16-AUG-12	NOE, CYNTHIA		17.70			Negotiable
332470		16-AUG-12	OLIN CORPORATION		17,342.87			Negotiable
332471		16-AUG-12	ONESOURCE DISTRIBUTORS LLC		2,117.65			Negotiable
332472		16-AUG-12	ORANGE COUNTY TREASURER		1,599.00			Negotiable
332473		16-AUG-12	ORANGE COUNTY VECTOR CONTROL DISTRICT		260.66			Negotiable

332474	16-AUG-12	PALLADIO PROPERTIES	42.29	Negotiable
332475	16-AUG-12	PASCAL & LUDWIG CONSTRUCTORS	2,112.95	Negotiable
332476	16-AUG-12	PASCAL & LUDWIG CONSTRUCTORS	843,748.08	Negotiable
332477	16-AUG-12	PILLSBURY WINTHROP SHAW	60,226.36	Negotiable
332478	16-AUG-12	POWER DESIGN	1,388.04	Negotiable
332479	16-AUG-12	PRAXAIR DISTRIBUTION INC	1,149.16	Negotiable
332480	16-AUG-12	PRINCIPAL LIFE INSURANCE	23,256.82	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 18  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332481		16-AUG-12	PSB THE MARKETING SUPERSOURCE		2,545.59			Negotiable
332482		16-AUG-12	PUMP CHECK		1,390.00			Negotiable
332483		16-AUG-12	R & S SOIL PRODUCTS INC		840.45			Negotiable
332484		16-AUG-12	RACH, KEVIN		31.13			Negotiable
332485		16-AUG-12	RACHAL, SHANNON		23.27			Negotiable
332486		16-AUG-12	REACH EMPLOYEE ASSISTANCE INC		785.20			Negotiable
332487		16-AUG-12	RESPONSE ENVELOPE, INC		3,327.32			Negotiable
332488		16-AUG-12	RINGCLEAR LLC		134.96			Negotiable
332489		16-AUG-12	ROBERTS, MARY		10.63			Negotiable
332490		16-AUG-12	ROCHESTER MIDLAND CORPORATION		2,025.06			Negotiable
332491		16-AUG-12	ROYAL WHOLESALE ELECTRIC		17,271.20			Negotiable
332492		16-AUG-12	RUPPERT, KERRI		12.87			Negotiable
332493		16-AUG-12	SANTA ANA BLUE PRINT		2,160.84			Negotiable
332494		16-AUG-12	SEAL ANALYTICAL INC		9,800.00			Negotiable
332495		16-AUG-12	SECURTEC DISTRICT PATROL INC		3,700.00			Negotiable
332496		16-AUG-12	SHAMROCK SUPPLY CO INC		640.75			Negotiable
332497		16-AUG-12	SHEN, NAIFENG		21.45			Negotiable
332498		16-AUG-12	SHORAKA, BOBAK		17.78			Negotiable
332499		16-AUG-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		798.14			Negotiable
332500		16-AUG-12	SOUTH COAST ANSWERING SERVICE		671.98			Negotiable
332501		16-AUG-12	SOUTHERN CALIFORNIA EDISON COMPANY		38,664.04			Negotiable
332502		16-AUG-12	SUNG, HYESUK		12.06			Negotiable
332503		16-AUG-12	T L ASHFORD ASSOC		295.00			Negotiable
332504		16-AUG-12	TALLEY INC		32.61			Negotiable
332505		16-AUG-12	TERMINE, MICHAEL		30.93			Negotiable
332506		16-AUG-12	THE FURMAN GROUP		10,040.00			Negotiable
332507		16-AUG-12	THE GAS COMPANY		9,973.68			Negotiable
332508		16-AUG-12	THE NEW HOME COMPANY		40.63			Negotiable
332509		16-AUG-12	TRENCH SHORING COMPANY		462.50			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 19  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332510		16-AUG-12	TRIPAC MARKETING INC		577.06			Negotiable
332511		16-AUG-12	TROPICAL PLAZA NURSERY INC		360.00			Negotiable
332512		16-AUG-12	TRUCPARCO		55.21			Negotiable
332513		16-AUG-12	TUSTIN COVENTRY SENIORS LP		41.71			Negotiable
332514		16-AUG-12	ULTRA SCIENTIFIC		1,117.41			Negotiable
332515		16-AUG-12	USA BLUEBOOK		1,395.38			Negotiable
332516		16-AUG-12	VA CONSULTING, INC		1,323.00			Negotiable
332517		16-AUG-12	VELASQUEZ, DAVID		37.52			Negotiable
332518		16-AUG-12	VERIZON CALIFORNIA INC		39.41			Negotiable
332519		16-AUG-12	VERIZON WIRELESS		113.10			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
332520		16-AUG-12	SERVICES LLC					
332521		16-AUG-12	VONG, DAVID		32.95			Negotiable
332522		16-AUG-12	VWR INTERNATIONAL, LLC		227.63			Negotiable
332522		16-AUG-12	WAXIE'S ENTERPRISES, INC		993.57			Negotiable
332523		16-AUG-12	WEST COAST SAND & GRAVEL INC.		4,276.82			Negotiable
332524		16-AUG-12	WESTERN EXTERMINATOR COMPANY		7,098.00			Negotiable
332525		16-AUG-12	WESTERN WATER WORKS SUPPLY COMPANY		2,940.50			Negotiable
332526		16-AUG-12	XYLEM DEWATERING SOLUTIONS INC		2,366.19			Negotiable
332527		16-AUG-12	YUI HSIEH		330.00			Negotiable
332528		16-AUG-12	Casey King		235.00			Negotiable
332529		16-AUG-12	Charles Boone		212.00			Negotiable
332530		16-AUG-12	Craig Cascelli		212.00			Negotiable
332531		16-AUG-12	Eric Akiyoshi		848.86			Negotiable
332532		16-AUG-12	Han-Tsuei Shih		485.21			Negotiable
332533		16-AUG-12	Henry Solis		85.00			Negotiable
332534		16-AUG-12	James Hamer		132.00			Negotiable
332535		16-AUG-12	Jared Pennington		207.00			Negotiable
332536		16-AUG-12	Leslie Bonkowski		115.84			Negotiable
332537		16-AUG-12	Mary Matheis		66.60			Negotiable
332538		16-AUG-12	Peer Swan		618.43			Negotiable
332539		16-AUG-12	Raghavender Joshi		177.75			Negotiable
332540		16-AUG-12	Steven LaMar		63.27			Negotiable
332541		16-AUG-12	Steven Tolerico		140.06			Negotiable
332542		16-AUG-12	Terrance Schreiner		220.00			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 20  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332543		16-AUG-12	Thomas Bonkowski		27.61			Negotiable
332544		20-AUG-12	IRWD-PETTY CASH CUSTODIAN	IRVINE	1,243.80			Negotiable
332545		23-AUG-12	Kirsten McLaughlin		174.30			Negotiable
332546		23-AUG-12	Reynaldo Valencia		66.00			Negotiable
332547		23-AUG-12	David Paulson		105.00			Negotiable
332548		23-AUG-12	Matthew Wiese		130.00			Negotiable
332549		23-AUG-12	Michael Hoolihan		115.00			Negotiable
332550		23-AUG-12	Todd Colvin		100.00			Negotiable
332551		23-AUG-12	A & Y ASPHALT CONTRACTORS INC		9,777.00			Negotiable
332552		23-AUG-12	AAF INTERNATIONAL		1,084.48			Negotiable
332553		23-AUG-12	AINSLLEY, PARK		57.08			Negotiable
332554		23-AUG-12	AIRGAS-WEST, INC.		368.12			Negotiable
332555		23-AUG-12	AL HAKEEM, MAZIMAZIN		61.77			Negotiable
332556		23-AUG-12	ALCAREZ, IVY		24.99			Negotiable
332557		23-AUG-12	ALOTAIBI, ABDULRAHMA		27.47			Negotiable
332558		23-AUG-12	ALTISOURCE SOLUTIONS		39.60			Negotiable
332559		23-AUG-12	ALTISOURCE SOLUTIONS INC		36.30			Negotiable
332560		23-AUG-12	AMERICAN LANDSCAPE INC		318.26			Negotiable
332561		23-AUG-12	ANAYA, STEVEN		72.41			Negotiable
332562		23-AUG-12	ANIXTER INC		8,645.86			Negotiable
332563		23-AUG-12	ARNOLD, PHILIP		21.45			Negotiable
332564		23-AUG-12	AT&T		47.67			Negotiable
332565		23-AUG-12	AT&T		4,013.70			Negotiable
332566		23-AUG-12	AT&T		8,955.30			Negotiable
332567		23-AUG-12	BARNARD, KIRK		29.16			Negotiable
332568		23-AUG-12	BARNES, CHRIS		29.27			Negotiable
332569		23-AUG-12	BDC SPECIAL WASTE		200.00			Negotiable
332570		23-AUG-12	BENNETT, RUSSELL		40.16			Negotiable
332571		23-AUG-12	BENNINGTON, LOURDES		20.51			Negotiable
332572		23-AUG-12	BERNEY PROPERTIES		77.45			Negotiable
332573		23-AUG-12	BILL'S SWEEPING SERVICE INC		460.00			Negotiable
332574		23-AUG-12	BOSCO, RICCARDO		42.48			Negotiable
332575		23-AUG-12	BRAND KARMA LLC		225.02			Negotiable
332576		23-AUG-12	BREEDON, LAUREN		80.40			Negotiable
332577		23-AUG-12	BRITHINEE ELECTRIC		1,788.27			Negotiable
332578		23-AUG-12	BRUCE NEWELL		1,316.00			Negotiable
332579		23-AUG-12	BUCHHOLZ, MARK		28.86			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332580		23-AUG-12	BUEGEL, ROBERT J		15.62			Negotiable
332581		23-AUG-12	BUI, DANIEL		52.09			Negotiable
332582		23-AUG-12	BURRELL, RAVEN		36.13			Negotiable
332583		23-AUG-12	CABELA'S MARKETING AND BRAND MANAGEMENT, INC.		98.87			Negotiable
332584		23-AUG-12	CAL MAX PROPERTIES		38.34			Negotiable
332585		23-AUG-12	CAL-WEST LANDSCAPE		82.85			Negotiable
332586		23-AUG-12	CAMERON WELDING SUPPLY		384.12			Negotiable
332587		23-AUG-12	CHANG, SUCHEN		26.56			Negotiable
332588		23-AUG-12	CHEN, TERESA		26.56			Negotiable
332589		23-AUG-12	CHEN, YUAN-SAN		40.22			Negotiable
332590		23-AUG-12	CHENG, CHARLES		61.72			Negotiable
332591		23-AUG-12	CHOI, ELIZA		49.11			Negotiable
332592		23-AUG-12	CHOI, MAYOUNG		13.30			Negotiable
332593		23-AUG-12	CITY OF IRVINE		789.60			Negotiable
332594		23-AUG-12	CITY OF LAKE FOREST		38,918.00			Negotiable
332595		23-AUG-12	CLEARINGHOUSE		528.45			Negotiable
332596		23-AUG-12	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
332597		23-AUG-12	COMMERCE ENERGY INC		379.76			Negotiable
332598		23-AUG-12	COMMERCIAL CLEANING SYSTEMS INC		10,733.99			Negotiable
332599		23-AUG-12	CONEYBEARE INC		10,182.85			Negotiable
332600		23-AUG-12	CONTRERAS, ERICA M		18.18			Negotiable
332601		23-AUG-12	CONTRERAS, IMELDA		38.74			Negotiable
332602		23-AUG-12	COOPER, LETICIA		15.66			Negotiable
332603		23-AUG-12	CORELOGIC INC		345.50			Negotiable
332604		23-AUG-12	CORNELL, JAMES		86.17			Negotiable
332605		23-AUG-12	CUMMINS CAL PACIFIC LLC		5,590.47			Negotiable
332606		23-AUG-12	CUNG, THAO		31.85			Negotiable
332607		23-AUG-12	DATA CLEAN CORPORATION		513.25			Negotiable
332608		23-AUG-12	David Hayden		1,389.18			Negotiable
332609		23-AUG-12	DAVIDSON, WILLY		43.00			Negotiable
332610		23-AUG-12	DE FLORIO, JONATHAN		28.69			Negotiable
332611		23-AUG-12	DEVIN INVESTMENTS, LLC		25.65			Negotiable
332612		23-AUG-12	DEWITT, DAVID		41.43			Negotiable
332613		23-AUG-12	DIRECTV INC		89.99			Negotiable
IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47								
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								
332614		23-AUG-12	DME INC		39.13			Negotiable
332615		23-AUG-12	DOE, JEREMY		21.49			Negotiable
332616		23-AUG-12	DOOLEY, BRIAN		177.12			Negotiable
332617		23-AUG-12	EARTH TEK ENGINEERING CORP		364.14			Negotiable
332618		23-AUG-12	EMA INC		8,347.71			Negotiable
332619		23-AUG-12	EMEDCO		118.93			Negotiable
332620		23-AUG-12	ENVIRONMENTAL EXPRESS INC		3,454.78			Negotiable
332621		23-AUG-12	ERS INDUSTRIAL SERVICES INC		26,380.00			Negotiable
332622		23-AUG-12	ESKURI, ALAN		31.73			Negotiable
332623		23-AUG-12	FARRELL & ASSOCIATES		162.96			Negotiable
332624		23-AUG-12	FARRIS, AMBER D		21.45			Negotiable
332625		23-AUG-12	FARSAI, RYAN		52.47			Negotiable
332626		23-AUG-12	FEDEX		174.41			Negotiable
332627		23-AUG-12	FERGUSON WATERWORKS		7,584.52			Negotiable
332628		23-AUG-12	FERGUSON, JEFF		35.99			Negotiable
332629		23-AUG-12	FERREIRA, JOYCE		23.61			Negotiable
332630		23-AUG-12	FIRE EXTINGUISHING SAFETY		403.23			Negotiable
332631		23-AUG-12	FIRST CHOICE SERVICES		213.40			Negotiable
332632		23-AUG-12	FISERV		13,698.06			Negotiable
332633		23-AUG-12	FISHER SCIENTIFIC COMPANY LLC		16,182.04			Negotiable
332634		23-AUG-12	FLEET SOLUTIONS LLC		3,992.00			Negotiable
332635		23-AUG-12	FOGT, MATTHEW		45.13			Negotiable
332636		23-AUG-12	FORTIER, MICHELLE		19.69			Negotiable
332637		23-AUG-12	FORTIS RESOURCE		10,178.40			Negotiable

332638		23-AUG-12	PARTNERS INC FOULADI, SHAHRIAR		18.58		Negotiable
332639		23-AUG-12	FRANCHISE TAX BOARD		150.00		Negotiable
332640		23-AUG-12	FULCRUM CONSTRUCTION LLC		100.53		Negotiable
332641		23-AUG-12	FUNG, CINDY		26.91		Negotiable
332642		23-AUG-12	GARZA INDUSTRIES, INC		1,292.58		Negotiable
332643		23-AUG-12	GAUSS, RAY		29.29		Negotiable
332644		23-AUG-12	GENTERRA CONSULTANTS INC		1,233.75		Negotiable
332645		23-AUG-12	GERRO, JOHN		15.00		Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 23  
 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								
332646		23-AUG-12	GIBBS, DAVID W		113.90			Negotiable
332647		23-AUG-12	GIDDENS, MARK		28.38			Negotiable
332648		23-AUG-12	GLASER, BRIAN		21.93			Negotiable
332649		23-AUG-12	GLEASON, MARION		27.47			Negotiable
332650		23-AUG-12	GOLDEN STATE LABOR COMPLIANCE LLC		10,312.50			Negotiable
332651		23-AUG-12	GOOGLE INC.		1,096.68			Negotiable
332652		23-AUG-12	GOVERNMENT FINANCE OFFICERS ASSOCIATION		430.00			Negotiable
332653		23-AUG-12	GRAINGER		876.86			Negotiable
332654		23-AUG-12	GRANDON, AARON		190.25			Negotiable
332655		23-AUG-12	GRAYBAR ELECTRIC COMPANY		397.34			Negotiable
332656		23-AUG-12	GREGORY WINNER		9,369.17			Negotiable
332657		23-AUG-12	GUNDERSON, DIANA		44.24			Negotiable
332658		23-AUG-12	HACH COMPANY		183.81			Negotiable
332659		23-AUG-12	HAMBLIN, CRYSTAL		126.01			Negotiable
332660		23-AUG-12	HARRINGTON INDUSTRIAL PLASTICS LLC		13,107.43			Negotiable
332661		23-AUG-12	HASLER		3,543.92			Negotiable
332662		23-AUG-12	HATTIS, FRANCES A		15.09			Negotiable
332663		23-AUG-12	HATTORI, SHIGEYA		29.18			Negotiable
332664		23-AUG-12	HEARTLAND BUSINESS CREDIT CORPORATION		570.58			Negotiable
332665		23-AUG-12	HELMER, JAY		22.36			Negotiable
332666		23-AUG-12	HINES, BARBARA		195.78			Negotiable
332667		23-AUG-12	HIRSHON, LILLIAN		22.36			Negotiable
332668		23-AUG-12	HOLMES, JIM		25.65			Negotiable
332669		23-AUG-12	HOME DEPOT USA INC		1,321.68			Negotiable
332670		23-AUG-12	HUANG, MARGARET		33.17			Negotiable
332671		23-AUG-12	HUANG, SHU YU		159.22			Negotiable
332672		23-AUG-12	HUFF, AMY		138.93			Negotiable
332673		23-AUG-12	IBM CORPORATION		12,471.23			Negotiable
332674		23-AUG-12	INDUSTRIAL METAL SUPPLY CO		149.39			Negotiable
332675		23-AUG-12	INTERNAL REVENUE SERVICE		1,451.11			Negotiable
332676		23-AUG-12	IRVINE PIPE & SUPPLY INC		2,587.81			Negotiable
332677		23-AUG-12	JCI JONES CHEMICALS INC		7,162.38			Negotiable
332678		23-AUG-12	JG CONSTRUCTION		15.00			Negotiable
332679		23-AUG-12	JOHNSON, ELISE		35.22			Negotiable
332680		23-AUG-12	JOHNSTON, AL		27.41			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 24  
 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								
332681		23-AUG-12	JOHNSTONE SUPPLY		409.84			Negotiable
332682		23-AUG-12	JUNG, HYE MUN		96.79			Negotiable
332683		23-AUG-12	KAY, RICHARD		10.28			Negotiable
332684		23-AUG-12	KB HOMES		324.75			Negotiable
332685		23-AUG-12	KELLY SERVICES INC		851.20			Negotiable
332686		23-AUG-12	KFC		212.27			Negotiable
332687		23-AUG-12	KIM, EMILY		16.84			Negotiable
332688		23-AUG-12	KIM, HEEKYONG		26.56			Negotiable
332689		23-AUG-12	KIM, JINSOOK		14.60			Negotiable
332690		23-AUG-12	Kirsten McLaughlin		1,459.06			Negotiable
332691		23-AUG-12	KITAYAMA, MIKIHIRO		126.74			Negotiable
332692		23-AUG-12	KOONTZ, JOHN		27.84			Negotiable
332693		23-AUG-12	KOPINGA, NICOLAS		50.65			Negotiable
332694		23-AUG-12	KOREA HOUSE BBQ		2,773.96			Negotiable

332695	23-AUG-12	KRAUT, JEAN	21.89	Negotiable
332696	23-AUG-12	KS DIRECT LLC	538.75	Negotiable
332697	23-AUG-12	KUKIDOME, SEIGO	17.82	Negotiable
332698	23-AUG-12	LAFOE, LORIN	21.45	Negotiable
332699	23-AUG-12	LANG, DOUG	117.12	Negotiable
332700	23-AUG-12	LCS TECHNOLOGIES, INC.	2,906.25	Negotiable
332701	23-AUG-12	LEASURE, WALLY	25.42	Negotiable
332702	23-AUG-12	LEE, SOON (Acct # 16124802030)	19.67	Negotiable
332703	23-AUG-12	LEE, TSAIHSIUNG	32.33	Negotiable
332704	23-AUG-12	LIAISON TECHNOLOGIES, INC.	2,551.50	Negotiable
332705	23-AUG-12	LINFIELD, SETH	46.04	Negotiable
332706	23-AUG-12	LIYANAGE, NIMAL	29.46	Negotiable
332707	23-AUG-12	LO, JOCELYN	21.66	Negotiable
332708	23-AUG-12	LUBRICATION ENGINEERS, INC.	7,718.36	Negotiable
332709	23-AUG-12	LUI, MINNA	96.25	Negotiable
332710	23-AUG-12	MALANE, MARTHA	68.52	Negotiable
332711	23-AUG-12	MALCOLM PIRNIE INC	893.80	Negotiable
332712	23-AUG-12	MANES, MICHAEL	28.69	Negotiable
332713	23-AUG-12	MARCHU, BRUCE	26.64	Negotiable
332714	23-AUG-12	MARK C. DANGLER	2,342.29	Negotiable
332715	23-AUG-12	MARKET-THINK LLC	3,900.00	Negotiable
332716	23-AUG-12	MARMALADE CAFE	702.77	Negotiable
332717	23-AUG-12	MARY GAMBOA	754.27	Negotiable
332718	23-AUG-12	MAYER HOFFMAN MCCANN P.C.	1,900.00	Negotiable
332719	23-AUG-12	MC MASTER CARR SUPPLY CO	2,543.64	Negotiable
332720	23-AUG-12	MCDONOUGH, DARLENE	25.65	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332721		23-AUG-12	MEHTA, BAKULESH		24.91			Negotiable
332722		23-AUG-12	METRON FARNIER, LLC		3,948.19			Negotiable
332723		23-AUG-12	MODERN REALTY		37.67			Negotiable
332724		23-AUG-12	MOUSER ELECTRONICS, INC.		355.35			Negotiable
332725		23-AUG-12	MURILLO, ELIZABETH		18.84			Negotiable
332726		23-AUG-12	MWH AMERICAS INC		2,800.00			Negotiable
332727		23-AUG-12	NCL OF WISCONSIN INC		54.67			Negotiable
332728		23-AUG-12	NEPTUNE TECHNOLOGY		88,945.47			Negotiable
332729		23-AUG-12	NEWPORT BEACH, CITY OF		280.14			Negotiable
332730		23-AUG-12	NGUYEN, QUI		38.82			Negotiable
332731		23-AUG-12	NGUYEN, SYLVIE		18.85			Negotiable
332732		23-AUG-12	NINYO & MOORE		16,722.45			Negotiable
332733		23-AUG-12	NORDSTROM INC		58.99			Negotiable
332734		23-AUG-12	O G SUPPLY		521.95			Negotiable
332735		23-AUG-12	O'HAREN GOVERNMENT RELATIONS		6,712.85			Negotiable
332736		23-AUG-12	OBA, MASANORI		31.61			Negotiable
332737		23-AUG-12	OLIN CORPORATION		12,320.06			Negotiable
332738		23-AUG-12	OLSON HAGEL FISHBURN, LLP		25.00			Negotiable
332739		23-AUG-12	ON ASSIGNMENT LAB SUPPORT		4,979.20			Negotiable
332740		23-AUG-12	ONESOURCE DISTRIBUTORS LLC		10,522.91			Negotiable
332741		23-AUG-12	ORANGE COUNTY VECTOR CONTROL DISTRICT		1,298.53			Negotiable
332742		23-AUG-12	PACIFIC NATIONAL GROUP		115.00			Negotiable
332743		23-AUG-12	PAUL E BRADLEY INC		1,800.00			Negotiable
332744		23-AUG-12	PAULUS ENGINEERING INC		1,151.30			Negotiable
332745		23-AUG-12	PERS LONG TERM CARE		1,178.47			Negotiable
332746		23-AUG-12	PINNACLE LANDSCAPE COMPANY		19,680.00			Negotiable
332747		23-AUG-12	PINNACLE TOWERS LLC		569.34			Negotiable
332748		23-AUG-12	PRAXAIR DISTRIBUTION INC		538.22			Negotiable
332749		23-AUG-12	PRIORITY MAILING SYSTEMS LLC		413.17			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 26  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No



Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332750		23-AUG-12	PROBOLSKY, ADAM		46.93			Negotiable
332751		23-AUG-12	PRUDENTIAL OVERALL SUPPLY		3,288.95			Negotiable
332752		23-AUG-12	PSOMAS		2,638.50			Negotiable
332753		23-AUG-12	PTI SAND & GRAVEL INC		929.22			Negotiable
332754		23-AUG-12	RABBITT, EMELY		53.79			Negotiable
332755		23-AUG-12	RADER-N'DIAYE, JODI N		28.38			Negotiable
332756		23-AUG-12	RBF CONSULTING		707.59			Negotiable
332757		23-AUG-12	REED, LUPE M		44.56			Negotiable
332758		23-AUG-12	REO ACCOUNTING, INC.		12.09			Negotiable
332759		23-AUG-12	RESPONSE ENVELOPE, INC		55.38			Negotiable
332760		23-AUG-12	RINCON TRUCK CENTER INC.		13,731.91			Negotiable
332761		23-AUG-12	ROOT, BARBARA		29.71			Negotiable
332762		23-AUG-12	ROUTLEY, WALTER		31.11			Negotiable
332763		23-AUG-12	ROYAL PLYWOOD COMPANY		1,251.62			Negotiable
332764		23-AUG-12	RUBY MGT		10.79			Negotiable
332765		23-AUG-12	SAIC ENERGY, ENVIRONMENT & INFRASTRUCTURE LLC		14,058.05			Negotiable
332766		23-AUG-12	SALJOOGHI, AZADEH		27.84			Negotiable
332767		23-AUG-12	SANGNAM, VIT		31.61			Negotiable
332768		23-AUG-12	SANTA ANA WATERSHED PROJECT		10,593.00			Negotiable
332769		23-AUG-12	SARBADHIKARY, NANDITA		36.30			Negotiable
332770		23-AUG-12	SCULLY, STEPHEN		33.45			Negotiable
332771		23-AUG-12	SEAL ANALYTICAL INC		318.70			Negotiable
332772		23-AUG-12	SEED TO TREE INVESTMENT		94.27			Negotiable
332773		23-AUG-12	SHIH, IIH PING		32.52			Negotiable
332774		23-AUG-12	SHUM, REBECCA		26.56			Negotiable
332775		23-AUG-12	SIGMA-ALDRICH INC		353.52			Negotiable
332776		23-AUG-12	SIQUEIROS, CARLOS		302.19			Negotiable
332777		23-AUG-12	SMITH, BART		13.03			Negotiable
332778		23-AUG-12	SMITH, ERLYN		32.50			Negotiable
332779		23-AUG-12	SOMERS, IRENE		21.45			Negotiable
332780		23-AUG-12	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		2,016.49			Negotiable

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

Payment Register For 01-AUG-12 To 31-AUG-12  
 Account: Checking AP and PR  
 Payment Currency: USD ( US Dollar )  
 Display Supplier Address: No

Report Date: 17-SEP-2012 14:47  
 Page: 27

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332781		23-AUG-12	SOUTH COAST SHELL		160.78			Negotiable
332782		23-AUG-12	SOUTHERN CALIFORNIA EDISON COMPANY		358,825.24			Negotiable
332783		23-AUG-12	SOUTHERN COUNTIES LUBRICANTS LLC		2,959.30			Negotiable
332784		23-AUG-12	SPARLING INSTRUMENTS LLC		3,832.70			Negotiable
332785		23-AUG-12	SPRINGER, DAVID C		55.58			Negotiable
332786		23-AUG-12	STATE WATER RESOURCES CONTROL BOARD		3,192.00			Negotiable
332787		23-AUG-12	STERN, ABBY		32.66			Negotiable
332788		23-AUG-12	SVOBODA, ROXANE		56.75			Negotiable
332789		23-AUG-12	TEKDRALICS		10,418.89			Negotiable
332790		23-AUG-12	TESTAMERICA LABORATORIES, INC		3,142.60			Negotiable
332791		23-AUG-12	TESTAMERICA LABORATORIES, INC		115.50			Negotiable
332792		23-AUG-12	TETRA TECH, INC		7,785.09			Negotiable
332793		23-AUG-12	TIC-IPG-COMMON		543.12			Negotiable
332794		23-AUG-12	TIC-OFFICE PROPERTIES		382.41			Negotiable
332795		23-AUG-12	TOMMY INC		25.10			Negotiable
332796		23-AUG-12	TROPICAL PLAZA NURSERY INC		45,059.00			Negotiable
332797		23-AUG-12	TRUGREEN LANDCARE LLC		41,466.15			Negotiable
332798		23-AUG-12	UNISAN PRODUCTS		824.60			Negotiable
332799		23-AUG-12	UNITED PARCEL SERVICE INC		134.04			Negotiable
332800		23-AUG-12	UNITED RENTALS NORTHWEST INC		100.86			Negotiable

332801	23-AUG-12	UNITED SITE SERVICES OF CALIFORNIA INC	685.05	Negotiable
332802	23-AUG-12	UNIVAR USA INC	732.70	Negotiable
332803	23-AUG-12	US PEROXIDE LLC	24,873.31	Negotiable
332804	23-AUG-12	VARGAS, DIANA	111.00	Negotiable
332805	23-AUG-12	VARON, MELISA	156.06	Negotiable
332806	23-AUG-12	VERIZON CALIFORNIA INC	407.77	Negotiable
332807	23-AUG-12	VILLA FORD	26,965.42	Negotiable
332808	23-AUG-12	VPSI INC	9,578.00	Negotiable
332809	23-AUG-12	VWR INTERNATIONAL, LLC	366.26	Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
332810		23-AUG-12	WATER EDUCATION FOUNDATION		1,000.00			Negotiable
332811		23-AUG-12	WAXIE'S ENTERPRISES, INC		1,782.71			Negotiable
332812		23-AUG-12	WECK LABORATORIES INC		4,832.50			Negotiable
332813		23-AUG-12	WEE, LESLIE		33.49			Negotiable
332814		23-AUG-12	WEST COAST SAND & GRAVEL INC.		2,127.72			Negotiable
332815		23-AUG-12	WORKFLOWONE		2,342.04			Negotiable
332816		23-AUG-12	WRIGHT, WADE		58.10			Negotiable
332817		23-AUG-12	YAP, KRISTINE		30.39			Negotiable
332818		23-AUG-12	YOUSSEF, ADEL		51.32			Negotiable
332819		23-AUG-12	ZEE MEDICAL SERVICE CO		68.74			Negotiable
332820		24-AUG-12	AGUSTIN, BELINDA		269.93			Negotiable
332821		24-AUG-12	AMIDL, MAHMOUD		120.22			Negotiable
332822		24-AUG-12	BK FOUNTAIN WORKS		3,543.47			Negotiable
332823		24-AUG-12	C WELLS PIPELINE MATERIALS INC		3,835.95			Negotiable
332824		24-AUG-12	DUNLAP, DAVID		165.86			Negotiable
332825		24-AUG-12	FIRST CHOICE SERVICES		249.89			Negotiable
332826		24-AUG-12	FOUNTAIN VALLEY PAINTS		377.13			Negotiable
332827		24-AUG-12	GRAINGER		211.12			Negotiable
332828		24-AUG-12	HILLEBRECHT, WARREN K		167.69			Negotiable
332829		24-AUG-12	KELLY SERVICES INC		851.20			Negotiable
332830		24-AUG-12	LIGHT COMMUNICATIONS INC		2,967.56			Negotiable
332831		24-AUG-12	PRAXAIR DISTRIBUTION INC		1,047.33			Negotiable
332832		24-AUG-12	SANTIAGO AQUEDUCT COMMISSION		30,241.21			Negotiable
332833		24-AUG-12	STANTEC CONSULTING SERVICES INC.		787.50			Negotiable
332834		24-AUG-12	SWANSON, E C		240.62			Negotiable
332835		24-AUG-12	VADNAIS CORPORATION		77,400.00			Voided
332836		30-AUG-12	1000BULBS.COM		47.49			Negotiable
332837		30-AUG-12	A & Y ASPHALT CONTRACTORS INC		7,777.00			Negotiable
332838		30-AUG-12	ACTION ELECTRIC CORP		3,450.00			Negotiable
332839		30-AUG-12	AFLAC		5,725.56			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 29  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332840		30-AUG-12	AQUA BEN CORPORATION		33,634.81			Negotiable
332841		30-AUG-12	ARCADIS U.S., INC.		3,929.00			Negotiable
332842		30-AUG-12	ASSOCIATED POWER INC		3,795.75			Negotiable
332843		30-AUG-12	AT&T		4,828.57			Negotiable
332844		30-AUG-12	BANBURY, JAMES		236.09			Negotiable
332845		30-AUG-12	BANH, VINCENT		159.49			Negotiable
332846		30-AUG-12	BANK OF AMERICA		20,507.53			Negotiable
332847		30-AUG-12	BATTERY SPECIALTIES		520.30			Negotiable
332848		30-AUG-12	BAUDRY, MICHEL		22.77			Negotiable
332849		30-AUG-12	BCCR		770.00			Negotiable
332850		30-AUG-12	BILL'S SWEEPING		805.00			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
332851		30-AUG-12	SERVICE INC					
332852		30-AUG-12	BIOMAGIC INC		16,897.59			Negotiable
332853		30-AUG-12	BIOMERIEUX INC		302.62			Negotiable
332854		30-AUG-12	BOYD & ASSOCIATES		990.00			Negotiable
332855		30-AUG-12	BRITHINEE ELECTRIC		5,715.03			Negotiable
332856		30-AUG-12	C WELLS PIPELINE MATERIALS INC		757.49			Negotiable
332857		30-AUG-12	CALIFORNIA BARRICADE INC		18,090.05			Negotiable
332858		30-AUG-12	CAMFIL FARR INC		559.29			Negotiable
332859		30-AUG-12	CH2M HILL, INC		23,184.00			Negotiable
332860		30-AUG-12	CH2M HILL, INC		11,673.73			Negotiable
332861		30-AUG-12	CITY OF IRVINE		239.58			Negotiable
332862		30-AUG-12	CITY OF LAKE FOREST		332,728.22			Negotiable
332863		30-AUG-12	CITY OF ORANGE		3,650.50			Negotiable
332864		30-AUG-12	COASTAL TRAFFIC SYSTEMS, INC		510.00			Negotiable
332865		30-AUG-12	COLONIAL LIFE & ACCIDENT INSURANCE CO.		1,751.68			Negotiable
332866		30-AUG-12	COMMERCIAL CLEANING SYSTEMS INC		240.00			Negotiable
332867		30-AUG-12	COMPRESSOR COMPONENTS OF CALIFORNIA INC		2,779.95			Negotiable
332868		30-AUG-12	COMPUCOM SYSTEMS, INC.		5,256.11			Negotiable
332869		30-AUG-12	CONEYBEARE INC		7,156.60			Negotiable
332869		30-AUG-12	COX COMMUNICATIONS		96.55			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 30  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332870		30-AUG-12	CREDENTIAL CHECK CORPORATION		205.30			Negotiable
332871		30-AUG-12	DELL MARKETING LP		3,465.39			Negotiable
332872		30-AUG-12	DEVISE ENGINEERING INC		1,528.80			Negotiable
332873		30-AUG-12	DURANCEAU CONSULTING SERVICES,		225.00			Negotiable
332874		30-AUG-12	DWYER INSTRUMENTS INC		1,265.94			Negotiable
332875		30-AUG-12	ENTERPRISE INFORMATION SYSTEMS INC		10,050.00			Negotiable
332876		30-AUG-12	ENVIRONMENTAL EXPRESS INC		352.06			Negotiable
332877		30-AUG-12	ENVIRONMENTAL RESOURCE ASSOCIATES		137.79			Negotiable
332878		30-AUG-12	EVERGREEN OIL INC		240.00			Negotiable
332879		30-AUG-12	EVOLVE MEDIA		1,313.00			Negotiable
332880		30-AUG-12	FEDEX		633.48			Negotiable
332881		30-AUG-12	FIRST CHOICE SERVICES		814.50			Negotiable
332882		30-AUG-12	FISHER SCIENTIFIC COMPANY LLC		2,287.87			Negotiable
332883		30-AUG-12	FLEET SOLUTIONS LLC		25.00			Negotiable
332884		30-AUG-12	FORTIS RESOURCE PARTNERS INC		2,253.60			Negotiable
332885		30-AUG-12	GOLDMAN, SACHS & CO		19,920.55			Negotiable
332886		30-AUG-12	GRAINGER		407.12			Negotiable
332887		30-AUG-12	GRAYBAR ELECTRIC COMPANY		562.59			Negotiable
332888		30-AUG-12	HAMADANI, FRANK		970.88			Negotiable
332889		30-AUG-12	HAMILTON, KURT		1,689.28			Negotiable
332890		30-AUG-12	HARRINGTON INDUSTRIAL PLASTICS LLC		252.61			Negotiable
332891		30-AUG-12	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY		153.62			Negotiable
332892		30-AUG-12	HILL BROTHERS CHEMICAL COMPANY		7,046.24			Negotiable
332893		30-AUG-12	HOME DEPOT USA INC		1,314.88			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 31  
 Bank Account Currency: USD ( US Dollar ) Payment Currency: USD ( US Dollar )  
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
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 Payment Document : IRWD CHECK  
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
332894		30-AUG-12	HYDRO-SCAPE PRODUCTS INC		407.40			Negotiable
332895		30-AUG-12	IDEXX DISTRIBUTION, INC		5,220.49			Negotiable
332896		30-AUG-12	INDUSTRIAL METAL SUPPLY CO		110.06			Negotiable
332897		30-AUG-12	INTILO, TALIYE		32.22			Negotiable
332898		30-AUG-12	IRVINE PIPE & SUPPLY INC		2,390.13			Negotiable
332899		30-AUG-12	IRWD-PETTY CASH CUSTODIAN		759.55			Negotiable
332900		30-AUG-12	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		1,975.00			Negotiable
332901		30-AUG-12	KONECRANES INC		750.00			Negotiable
332902		30-AUG-12	KS DIRECT LLC		1,044.10			Negotiable
332903		30-AUG-12	L&S CONSTRUCTION INC		20,114.00			Negotiable
332904		30-AUG-12	LGC GEOTECHNICAL, INC.		2,470.00			Negotiable
332905		30-AUG-12	MADDAUS, WILLIAM O.		1,700.00			Negotiable
332906		30-AUG-12	MARTIN, ANDREW		43.45			Negotiable
332907		30-AUG-12	MARVIN GARDENS LLC		2,593.70			Negotiable
332908		30-AUG-12	MC MASTER CARR SUPPLY CO		485.92			Negotiable
332909		30-AUG-12	MCCROMETER, INC.		2,514.40			Negotiable
332910		30-AUG-12	MERCHANTS LANDSCAPE SERVICES INC		622.46			Negotiable
332911		30-AUG-12	MISSION COMMUNICATIONS LLC		563.36			Negotiable
332912		30-AUG-12	MK POWER LLC		2,400.00			Negotiable
332913		30-AUG-12	NATIONAL READY MIXED CONCRETE CO		13,845.57			Negotiable
332914		30-AUG-12	NEWPORT REAL ESTATE SERVICES INC		26,514.57			Negotiable
332915		30-AUG-12	NEWPORT WINDOW MAINTENANCE INC		2,314.00			Negotiable
332916		30-AUG-12	NINYO & MOORE		6,530.62			Negotiable
332917		30-AUG-12	NMG GEOTECHNICAL INC		58,941.68			Negotiable
332918		30-AUG-12	OLIN CORPORATION		10,172.60			Negotiable
332919		30-AUG-12	ON ASSIGNMENT LAB SUPPORT		1,244.80			Negotiable

IRWD Ledger  
 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

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 Payment Document : IRWD CHECK  
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
332920		30-AUG-12	ONESOURCE DISTRIBUTORS LLC		639.67			Negotiable
332921		30-AUG-12	ORANGE COUNTY BUSINESS COUNCIL		3,500.00			Negotiable
332922		30-AUG-12	ORANGE COUNTY FIRE AUTHORITY		2,238.00			Negotiable
332923		30-AUG-12	ORDONEZ, BERNIE		2,969.70			Negotiable
332924		30-AUG-12	PACIFIC COAST BOLT CORP		3,568.20			Negotiable
332925		30-AUG-12	PACIFIC RESOURCE RECOVERY		834.30			Negotiable
332926		30-AUG-12	PAULUS ENGINEERING INC		37,845.90			Negotiable
332927		30-AUG-12	PAYNE & FEARS LLP		17,822.50			Negotiable
332928		30-AUG-12	PIPER, G DAVID		1,398.20			Negotiable
332929		30-AUG-12	PONTON INDUSTRIES INC		364.44			Negotiable
332930		30-AUG-12	PRE-PAID LEGAL SERVICES INC		1,490.67			Negotiable
332931		30-AUG-12	PRECISION GRADING & EXCAVATING		902.39			Negotiable
332932		30-AUG-12	PRIORITY MAILING SYSTEMS LLC		240.28			Negotiable
332933		30-AUG-12	PSB THE MARKETING SUPERSOURCE		2,313.36			Negotiable
332934		30-AUG-12	PUNTO, NATALIE		46.71			Negotiable
332935		30-AUG-12	R&B AUTOMATION INC		500.00			Negotiable
332936		30-AUG-12	RBF CONSULTING		5,897.95			Negotiable
332937		30-AUG-12	SANTA ANA BLUE PRINT		7,757.44			Negotiable
332938		30-AUG-12	SELLERS, ALLEN		368.01			Negotiable
332939		30-AUG-12	SHAMROCK SUPPLY CO INC		1,005.54			Negotiable
332940		30-AUG-12	SOUTHERN CALIFORNIA EDISON		565,927.87			Negotiable

332941	30-AUG-12	COMPANY SOUTHERN CALIFORNIA EDISON	3,817.93	Negotiable
332942	30-AUG-12	COMPANY SOUTHERN CALIFORNIA EDISON	547.00	Negotiable
332943	30-AUG-12	COMPANY STANDARD & POOR'S FINANCIAL SERVICES LLC	1,500.00	Negotiable
332944	30-AUG-12	STANEART, JEFF	440.00	Negotiable

IRWD Ledger      Payment Register For 01-AUG-12 To 31-AUG-12      Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A.      Branch : Los Angeles      Account: Checking AP and PR      Page: 33  
 Bank Account Currency: USD ( US Dollar )      Payment Currency: USD ( US Dollar )  
 Payment Type: All      Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
332945		30-AUG-12	SUN-STAR ELECTRIC LP		8,096.79			Negotiable
332946		30-AUG-12	SYNAGRO SOUTH, LLC		23,681.93			Negotiable
332947		30-AUG-12	T AND S LARSEN MAINTENANCE		400.00			Negotiable
332948		30-AUG-12	TEKDRAULICS		3,966.37			Negotiable
332949		30-AUG-12	TELEDYNE LEEMAN LABS		213.17			Negotiable
332950		30-AUG-12	TESTAMERICA LABORATORIES, INC		320.25			Negotiable
332951		30-AUG-12	THERMX SOUTHWEST		13,823.53			Negotiable
332952		30-AUG-12	THYSSENKRUPP ELEVATOR		210.87			Negotiable
332953		30-AUG-12	TOXGUARD FLUID TECHNOLOGIES		1,417.90			Negotiable
332954		30-AUG-12	TRANSCAT, INC		2,612.51			Negotiable
332955		30-AUG-12	TRENCH SHORING COMPANY		768.86			Negotiable
332956		30-AUG-12	TROPICAL PLAZA NURSERY INC		15,832.59			Negotiable
332957		30-AUG-12	TRUGREEN LANDCARE LLC		5,815.58			Negotiable
332958		30-AUG-12	UNITED PARCEL SERVICE INC		100.72			Negotiable
332959		30-AUG-12	UNITED PARTITION SYSTEMS INC		2,691.98			Negotiable
332960		30-AUG-12	UNIVAR USA INC		9,500.97			Negotiable
332961		30-AUG-12	US PEROXIDE LLC		12,470.22			Negotiable
332962		30-AUG-12	VERIZON CALIFORNIA INC		87.17			Negotiable
332963		30-AUG-12	VERIZON WIRELESS SERVICES LLC		6,369.01			Negotiable
332964		30-AUG-12	VULCAN MATERIALS COMPANY		2,971.67			Negotiable
332965		30-AUG-12	VWR INTERNATIONAL, LLC		1,321.06			Negotiable
332966		30-AUG-12	W.M. LYLES CO		862,801.83			Negotiable
332967		30-AUG-12	WASTE MANAGEMENT OF ORANGE COUNTY		1,920.47			Negotiable
332968		30-AUG-12	WAXIE'S ENTERPRISES, INC		1,779.80			Negotiable
332969		30-AUG-12	WECK LABORATORIES INC		4,064.00			Negotiable
332970		30-AUG-12	WEST COAST SAND & GRAVEL INC.		1,056.37			Negotiable
332971		30-AUG-12	ZDROJEWSKI, MARK		31.05			Negotiable

IRWD Ledger      Payment Register For 01-AUG-12 To 31-AUG-12      Report Date: 17-SEP-2012 14:47  
 BANK: Bank of America N.A.      Branch : Los Angeles      Account: Checking AP and PR      Page: 34  
 Bank Account Currency: USD ( US Dollar )      Payment Currency: USD ( US Dollar )  
 Payment Type: All      Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
Payment Document Subtotal:					11,742,577.14			
Payment Document : IRWD Wire								
9549		08-AUG-12	YORK INSURANCE SERVICES GROUP INC - CA	PAY	2,103.00			Negotiable
9550		10-AUG-12	INTERNAL REVENUE SERVICE	FRESNO	148,478.44			Negotiable
9551		10-AUG-12	FRANCHISE TAX BOARD	SACRAMENTO	41,590.66			Negotiable
9552		10-AUG-12	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	9,331.89			Negotiable
9553		10-AUG-12	WILLIAMS, TWYLA	PARKER	1,158.79			Negotiable

9554	10-AUG-12	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO		1,954.76		Negotiable
9555	10-AUG-12	EMPLOYEE BENEFIT SPECIALIST, INC	PAY		11,710.67		Negotiable
9556	10-AUG-12	GREAT WEST	DENVER		79,843.30		Negotiable
9557	10-AUG-12	CALPERS	SACRAMENTO		78,613.85		Negotiable
9558	10-AUG-12	CITIGROUP GLOBAL MARKETS INC.	NEW YORK		1,693,237.81		Negotiable
9559	13-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK		3,878.88		Negotiable
9560	13-AUG-12	SUMITOMO MITSUI BANKING CORPORAION	NEW YORK		5,871.15		Negotiable
9561	13-AUG-12	U.S. BANK NATIONALST. ASSOCIATION	LOUIS		6,971.32		Negotiable
9562	13-AUG-12	BANK OF AMERICA MERRILL LYNCH	PAY		10,122.97		Negotiable
9563	13-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	PAY		7,037.35		Negotiable
9564	13-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	PAY		4,691.77		Negotiable
9565	13-AUG-12	SUMITOMO MITSUI BANKING CORPORAION	NEW YORK		2,028.06		Negotiable
9566	13-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK		1,100,086.86		Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								
9567		14-AUG-12	CALPERS	SACRAMENTO	316,242.55			Negotiable
9568		15-AUG-12	YORK INSURANCE SERVICES GROUP INC - CA	PAY	4,156.74			Negotiable
9569		23-AUG-12	INTERNAL REVENUE SERVICE	FRESNO	134,900.99			Negotiable
9570		23-AUG-12	FRANCHISE TAX BOARD	SACRAMENTO	37,501.99			Negotiable
9571		23-AUG-12	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	8,952.56			Negotiable
9572		23-AUG-12	WILLIAMS, TWYLA	PARKER	1,158.79			Negotiable
9573		23-AUG-12	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	1,991.98			Negotiable
9574		23-AUG-12	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	10,843.36			Negotiable
9575		23-AUG-12	GREAT WEST	DENVER	77,468.76			Negotiable
9576		23-AUG-12	CALPERS	SACRAMENTO	76,686.30			Negotiable
9577		24-AUG-12	MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	1,947,109.77			Negotiable
9578		24-AUG-12	GREAT WEST	DENVER	3.45			Negotiable
9579		27-AUG-12	YORK INSURANCE SERVICES GROUP INC - CA	PAY	202.57			Negotiable
9580		27-AUG-12	J.R. FILANC CONSTRUCTION COMPANY INC.	ESCONDIDO	1,169,028.35			Negotiable
9581		28-AUG-12	BANK OF AMERICA MERRILL LYNCH	PAY	295.00			Negotiable
9582		28-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	LOS ANGELES	1,000.00			Negotiable
9583		29-AUG-12	YORK INSURANCE SERVICES GROUP INC - CA	PAY	6,108.04			Negotiable
9584		29-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	133.33			Negotiable
9585		30-AUG-12	BANK OF NEW YORK MELLON TRUST COMPANY NA	LOS ANGELES	1,843,950.00			Negotiable

IRWD Ledger Payment Register For 01-AUG-12 To 31-AUG-12 Report Date: 17-SEP-2012 14:47  
 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								

Payment Document Subtotal:	8,846,446.06	
Bank Account Subtotal :	20,589,023.20	
Report Count : 1013	Report Total: 20,589,023.20	

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

September 24, 2012 <sup>DS</sup> KNL  
Prepared by: K. Lew/M. Gortez   
Submitted by: K. Burton   
Approved by: Paul Cook 

CONSENT CALENDAR

REIMBURSEMENT AGREEMENT WITH SHEA BAKER RANCH ASSOCIATES

SUMMARY:

Shea Baker Ranch Associates (Shea Baker) is beginning development of Shea Baker Ranch which includes the construction of streets, storm drains, domestic water, sewer, and recycled water improvements. Staff recommends that the Board authorize the General Manager to execute a Reimbursement Agreement (RA) with Shea Baker for construction of IRWD's capital facilities for a total estimated cost of \$647,900,

BACKGROUND:

Shea Baker has requested that IRWD enter into a RA for construction of IRWD capital facilities for the Shea Baker Ranch development. Shea Baker Ranch is bound by Rancho Parkway to the north, Bake Parkway to the east, Commercentre Drive to the south, and the City of Lake Forest boundary to the west. Shea Baker is moving forward with backbone improvements which are shown in the location map as provided in Exhibit "A". The capital facilities consist of approximately 4,300 LF of 12-inch domestic water pipeline, 3,300 LF of 16-inch domestic water pipeline, 700 LF of 6-inch recycled water pipeline, 5,700 LF of 8-inch recycled water pipeline, and 1,500 LF of 12-inch recycled water pipeline. The total estimated construction cost for these capital improvements is \$647,900. Shea Baker anticipates starting grading in September 2012, with capital facilities construction beginning in February 2013.

The terms of the Shea Baker RA are substantially the same as IRWD's RAs with the Irvine Community Development Company and Heritage Fields El Toro. The proposed RA has been reviewed by IRWD's legal counsel and is provided as Exhibit "B". The required IRWD domestic water, sewer, and recycled water capital facilities are documented in the Lake Forest Area Sub-Area Master Plan (prepared in October 2010) and shown in the system maps as provided in Exhibit "C".

FISCAL IMPACTS:

Projects 11562 (1189) and 31562 (1517) for Lake Forest domestic water and recycled water improvements are included in the FY 2012-13 Capital Budget. Expenditure Authorizations for the projects will be requested at the time of construction award.

ENVIRONMENTAL COMPLIANCE:

Activities such as executing reimbursement agreements are 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 capital domestic water, sewer, and recycled water facilities for the Shea Baker Ranch Project is subject to CEQA. In conformance with the California Code of Regulations Title 14, Chapter 3, Article 7 a Supplemental Environmental Impact Report was certified by the City of Lake Forest on May 15, 2012 (2004071039).

**COMMITTEE STATUS:**

This item was reviewed at the Engineering and Operations Committee on September 18, 2012.

**RECOMMENDATION:**

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A REIMBURSEMENT AGREEMENT WITH SHEA BAKER RANCH ASSOCIATES FOR THE CONSTRUCTION OF CAPITAL FACILITIES FOR A TOTAL ESTIMATED COST OF \$647,900.

**LIST OF EXHIBITS:**

Exhibit "A" – Shea Baker Ranch Location Map

Exhibit "B" – Reimbursement Agreement between IRWD and Shea Baker Ranch Associates for the Construction of Capital Facilities

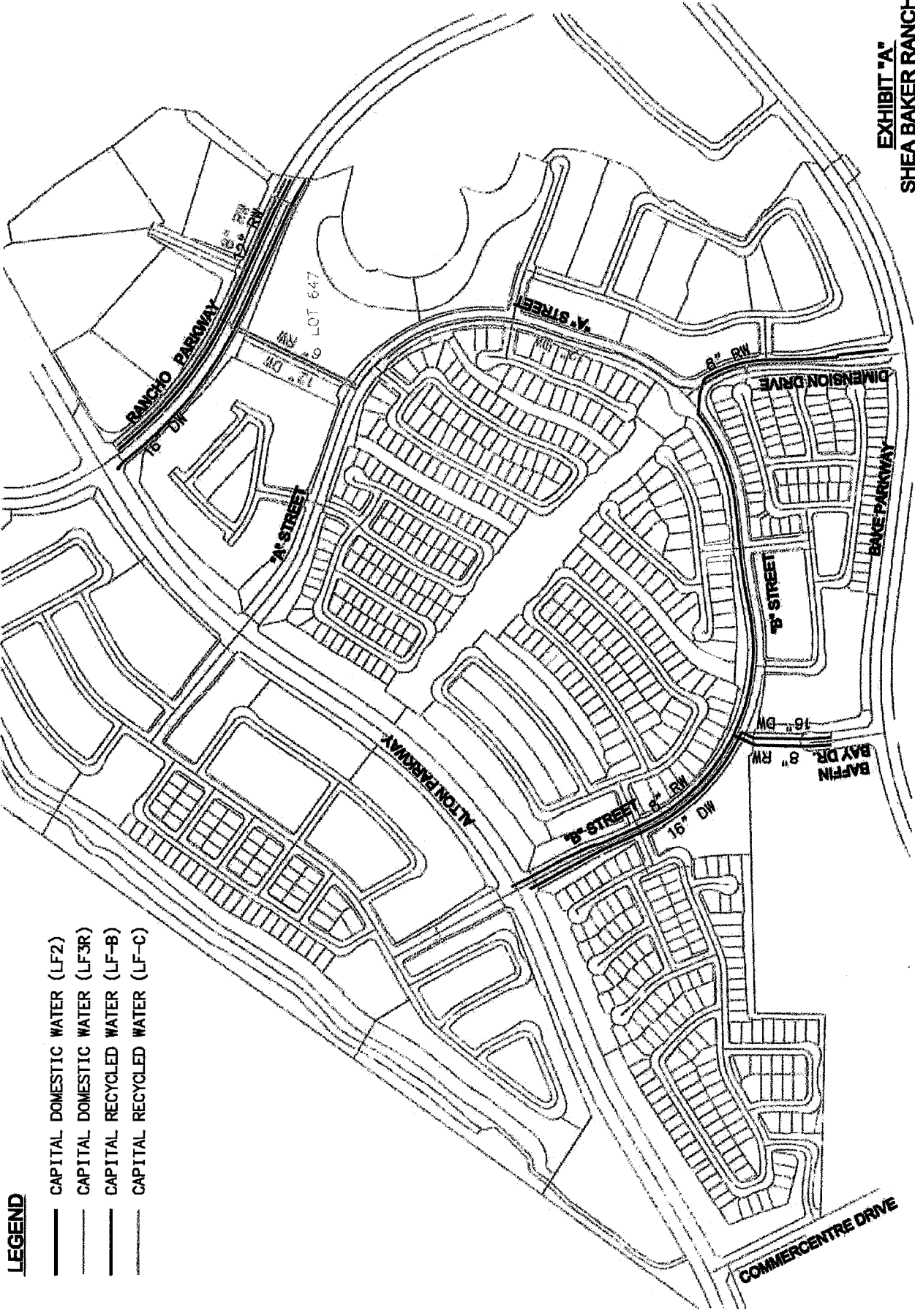
Exhibit "C" – Lake Forest Area Sub-Area Master Plan System Maps

# EXHIBIT "A"

EXHIBIT "A"  
SHEA BAKER RANCH  
ASSOCIATES  
CAPITAL FACILITIES



DATE: 8-13-12



**LEGEND**

- CAPITAL DOMESTIC WATER (LF2)
- CAPITAL DOMESTIC WATER (LF3R)
- CAPITAL RECYCLED WATER (LF-B)
- CAPITAL RECYCLED WATER (LF-C)

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# EXHIBIT "B"

REIMBURSEMENT AGREEMENT BETWEEN  
IRVINE RANCH WATER DISTRICT  
AND SHEA BAKER RANCH ASSOCIATES  
FOR  
CONSTRUCTION OF CAPITAL FACILITIES

This Agreement is made and entered into as of this \_\_\_\_ day of \_\_\_\_\_, 2012, 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, hereinafter referred to as "DISTRICT," and SHEA BAKER RANCH ASSOCIATES, a California Limited Liability Company, hereinafter referred to as "BUILDER."

W I T N E S S E T H:

WHEREAS, BUILDER proposes to construct street and utility improvements within "A" Street between Alton Parkway and Dimension Drive, "B" Street between Alton Parkway and Dimension Drive, Dimension Drive between Bake Parkway and "A" Street, Rancho Parkway between Alton Parkway and Station 26+50, Baffin Bay Drive between "B" Street and Bake Parkway, and Lot 647 between "A" Street and Rancho Parkway (the "Project"), within the jurisdictional boundaries of DISTRICT and the City of Lake Forest; and

WHEREAS, prior to or in conjunction with BUILDER's construction of the Project, IRWD desires to construct, within or adjacent to the street improvements that comprise the Project, the following capital facilities and appurtenances thereto: approximately 4,300 lineal feet (LF) of 12-inch domestic water pipeline, 3,300 lineal feet (LF) of 16-inch domestic water pipeline, 700 LF of 6-inch recycled water pipeline, 5,700 LF of 8-inch recycled water pipeline and 1,500 LF of 12-inch recycled water pipeline as depicted on Exhibit "A" attached hereto incorporated by reference herein (hereinafter referred to as the "IRWD FACILITIES"); and

WHEREAS, the parties have determined that it would be more expedient for BUILDER to construct the IRWD FACILITIES rather than for DISTRICT to do so; and

WHEREAS, DISTRICT is amenable to the design and construction of the IRWD FACILITIES by BUILDER, at the cost of BUILDER, which cost is to be reimbursed by DISTRICT; and

WHEREAS, except as otherwise provided herein, upon the completion of the IRWD FACILITIES, the IRWD FACILITIES shall become the property of DISTRICT in accordance with the terms and conditions hereinafter set forth.

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

SECTION 1. IRWD FACILITIES. In conjunction with the Project, BUILDER agrees to initiate and diligently pursue to completion the design and construction of the IRWD FACILITIES.

SECTION 2. PLANS. BUILDER agrees that the IRWD FACILITIES shall be completed pursuant to approved project plans and specifications (the "Plans and Specifications") which shall be approved by DISTRICT and used in awarding the construction contract. Prior to commencement of preparation of the Plans and Specifications, BUILDER shall submit its design engineer's proposal for the design of the IRWD FACILITIES to DISTRICT. DISTRICT will have a period of five (5) calendar days from its receipt of such design proposal to review and either indicate its approval or request changes. BUILDER shall cause its design engineer to review and respond to any requested changes. The Plans and Specifications shall be deemed to incorporate the applicable portions of DISTRICT's latest edition of "Construction Manual for the Construction of Water, Sewer, and Recycled Water Facilities" (the "Construction Manual"). The IRWD FACILITIES shall be contracted by BUILDER together with non-reimbursable work to be completed by BUILDER within the Project pursuant to plans prepared by BUILDER's design engineer.

SECTION 3. BIDDING AND AWARD. The parties agree that the construction of the IRWD FACILITIES shall be included in BUILDER's contract(s) awarded for the Project and that the IRWD FACILITIES shall be bid as a separate item or items that can be deleted. During the bidding process, BUILDER shall deliver to IRWD one (1) complete set of the bid documents that include the IRWD FACILITIES, including all related addenda concurrently with the distribution thereof to prospective bidders. Upon opening of bids by BUILDER, BUILDER will submit the bids or a spread sheet summary of the bids to DISTRICT. DISTRICT will have a

period of ten (10) calendar days from its receipt of the bid results for review and approval of the IRWD FACILITIES bid item(s) submitted by the bidder identified to DISTRICT by BUILDER as BUILDER's proposed successful bidder. BUILDER agrees that bids received for the construction of the IRWD FACILITIES bid item(s) shall be subject to the approval of DISTRICT prior to award of the Project construction contract(s) that include the IRWD FACILITIES; and further agrees that in the event DISTRICT does not approve such bids, either party may terminate this Agreement upon twenty-four (24) hours' prior written notice, in which event BUILDER shall have no further obligation to construct the IRWD FACILITIES, and DISTRICT may elect to install the IRWD FACILITIES with its own contractor. If DISTRICT approves of the IRWD FACILITIES bid item(s) of BUILDER's successful bidder, BUILDER agrees to cause the IRWD FACILITIES to be constructed as part of the contract awarded to such bidder. The total estimated construction cost for the IRWD FACILITIES is \$647,900, provided, however, the amount to be reimbursed by DISTRICT shall be based on the actual costs of construction. Upon award of the construction contract, BUILDER shall provide DISTRICT with one (1) original copy of the fully executed contract documents and one (1) copy of the bid package relating to the IRWD FACILITIES received from the successful bidder.

**SECTION 4. DESIGN REVISIONS AND CHANGE ORDERS.** BUILDER agrees that if, during design or construction, BUILDER requests or initiates any revision to the Plans and Specifications that would increase the cost of the IRWD FACILITIES, such additional costs shall be borne by BUILDER, and shall not be reimbursed by DISTRICT, except for such revision(s) and cost(s) that are determined necessary to construct IRWD FACILITIES in accordance with the Construction Manual and could not reasonably have been foreseen at the time bids were received. The cost of any such necessary and unforeseeable revisions, and the cost of any revisions requested or initiated by DISTRICT shall be reimbursed by DISTRICT as provided herein.

BUILDER shall promptly furnish DISTRICT with copies of any proposed change orders to the Project contract within five (5) working days of initiation of changed conditions to such contract, which change orders shall be subject to DISTRICT approval if and to the extent any of the IRWD FACILITIES are affected thereby. DISTRICT will review and respond to proposed change orders affecting the IRWD FACILITIES within five (5) working days of receipt by DISTRICT.

**SECTION 5. REIMBURSEMENT.** DISTRICT agrees to reimburse BUILDER for the following costs (collectively, the "Costs"): (1) the actual costs of design, construction, permits,

bonds, and legal fees (excluding the costs of preparation of this Agreement) incurred by BUILDER for the design and construction of the IRWD FACILITIES, plus (2) an administration fee which shall be equal to one percent (1%) of the actual cost of construction (costs paid directly to BUILDER's contractor for construction, only, excluding any cost for design, surveying, geotechnical or other work) of the IRWD FACILITIES and which shall be deemed to cover all costs of project administration, including, but not limited to, accounting, inspection, surveying, compaction testing, geotechnical services and engineering. BUILDER shall keep a separate accounting of all Costs incurred by BUILDER in relation to the IRWD FACILITIES.

Within thirty (30) days following receipt from BUILDER of each invoice for DISTRICT's portion of a construction progress payment, accompanied by supporting documentation as may be necessary to show the amounts which represent Costs of IRWD FACILITIES, DISTRICT shall deposit with BUILDER the amount of such invoice. Within sixty (60) days of DISTRICT's acceptance of the IRWD FACILITIES as provided in Section 8, a final accounting of the Costs shall be made by BUILDER and submitted to DISTRICT along with an invoice for the Costs and any supporting documentation necessary to show the amounts which represent Costs of IRWD FACILITIES. Amounts paid pursuant to progress payment invoices shall be subject to adjustment in the final accounting. Within thirty (30) days of said final accounting, DISTRICT agrees to pay to BUILDER the total amount of the Costs less previous progress payments made DISTRICT. If the total of the previously paid progress payments exceeds the Costs, BUILDER shall refund the difference to IRWD within thirty (30) days of BUILDER's submittal of the final accounting.

**SECTION 6. LAWS, ORDINANCES, RULES AND REGULATIONS.** BUILDER shall require in its contract for the construction of the IRWD FACILITIES that its contractor be fully informed of and comply with all laws, ordinances, rules and regulations, including, but not limited to, all applicable requirements of the California Labor Code, prevailing wage laws, the Construction Manual, and the Rules and Regulations of DISTRICT, in connection with the construction of the IRWD FACILITIES.

**SECTION 7. INSPECTION.** DISTRICT shall have sole and absolute discretion as to all aspects of design and construction of the IRWD FACILITIES, and DISTRICT shall be entitled to inspect the construction of IRWD FACILITIES as it deems necessary to assure compliance with the Plans and Specifications, including shop drawing review and material inspection thereof. DISTRICT shall have access to all phases of the Project work to be performed by BUILDER for the purpose of such inspection; provided, however, all questions regarding the

work being performed will be directed to BUILDER's resident engineer. DISTRICT will promptly notify BUILDER of any portion of the work on the IRWD FACILITIES which appears not to conform to the Plans and Specifications. The determination of DISTRICT as to conformity of the IRWD FACILITIES with the Plans and Specifications shall be made in DISTRICT's sole and absolute discretion. DISTRICT agrees not to unreasonably withhold its approval as to such conformity of the IRWD FACILITIES with the Plans and Specifications. BUILDER shall require its contractor to construct the IRWD FACILITIES so that the IRWD FACILITIES conform to the Plans and Specifications. BUILDER agrees to assume full responsibility for certifying or obtaining certification of the compaction of backfill material over the IRWD FACILITIES.

**SECTION 8. ACCEPTANCE.** DISTRICT agrees to accept the IRWD FACILITIES when the IRWD FACILITIES have been substantially completed by BUILDER in accordance with all requirements of the Plans and Specifications, including any change orders approved by DISTRICT as provided in Section 3 hereof. At the time of completion and acceptance of the IRWD FACILITIES, BUILDER agrees to furnish DISTRICT with one (1) copy of the contractor's redlined set of "record" drawings (showing all revisions, manufacturer and type of valves, pipe and fittings as required by DISTRICT) and one (1) copy of the compaction reports and certificate, survey notes and cut sheets.

**SECTION 9. OWNERSHIP.** It is mutually agreed between the parties hereto that notwithstanding the fact that BUILDER shall accomplish the construction of the IRWD FACILITIES subject to reimbursement, the IRWD FACILITIES to be completed hereunder, together with the necessary franchises, licenses, easements, rights-of-way, and other privileges, shall at all times be subject to the applicable rates, rules and regulations of DISTRICT, as modified or amended from time to time. BUILDER hereby disclaims any interest in the IRWD FACILITIES and does hereby transfer and assign to DISTRICT any and all right, title, and interest it may have in the IRWD FACILITIES. BUILDER shall be responsible for operation and maintenance of the IRWD FACILITIES until acceptance by the DISTRICT. DISTRICT shall own, operate and maintain the IRWD FACILITIES following acceptance thereof.

**SECTION 10. GUARANTEES.** BUILDER will, pursuant to the requirement(s) of the Plans and Specifications, cause its contractor(s) for the IRWD FACILITIES to guarantee the IRWD FACILITIES against defects in workmanship and materials for a period of one (1) year from the date of acceptance by BUILDER, which acceptance shall be given only after acceptance by DISTRICT as provided in Section 8. It is further agreed that BUILDER shall



cause the IRWD FACILITIES to be brought or restored to full compliance with the requirements of the Plans and Specifications, including any test requirements, for any portions of the IRWD FACILITIES which during said one (1) year period are found not to be in conformance with the provisions of the Plans and Specifications. This guarantee is in addition to any and all other warranties, express or implied, from BUILDER's contractors or material manufacturers, with respect to the IRWD FACILITIES. The guarantee and obligations under this section shall in no way be relieved by DISTRICT's inspection and/or acceptance of the IRWD FACILITIES. This section sets forth the entire guarantee and warranty of BUILDER with respect to the IRWD FACILITIES. The express or implied warranties of other persons with respect to IRWD FACILITIES shall in no way be limited by the guarantee and warranty of BUILDER contained in this section. If requested by DISTRICT, BUILDER agrees to assign to DISTRICT the contractor's guarantee and/or any other guarantees or warranties relating to the IRWD FACILITIES.

**SECTION 11. INDEMNIFICATION.** BUILDER shall indemnify, defend and hold DISTRICT, its officers, agents, employees, and engineers harmless from any expense, liability or claim for death, injury, loss, damage or expense to persons or property which may arise or is claimed to have arisen during construction of the IRWD FACILITIES as a result of any work or action performed by BUILDER or on behalf of BUILDER, save and except to the extent such expense, liability or claim is proximately caused in whole or in part by any act, omission, or negligence of DISTRICT, its officers, agents, employees or engineers or by any act or omission for which DISTRICT, its officers, agents, employees or engineers are liable without fault.

DISTRICT shall indemnify, defend and hold BUILDER, its officers, agents, and employees, harmless from any expense, liability or claim for death, injury, loss, damage or expense to persons or property which may arise or is claimed to have arisen either (i) as a result of any acts performed by DISTRICT, its officers, agents, or employees, with respect to the IRWD FACILITIES construction; or (ii) following DISTRICT acceptance of the IRWD FACILITIES, with respect to maintenance and operation of the IRWD FACILITIES, save and except to the extent such expense, liability or claim is proximately caused in whole or in part by any negligence of BUILDER, its officers, agents, employees or engineers, or by any act or omission for which BUILDER, its officers, agents, employees or engineers are liable without fault.

**SECTION 12. INSURANCE AND BONDING.** BUILDER shall cause its contractor(s) to provide performance and payment bonds for the construction of the Project including the

IRWD FACILITIES and to obtain insurance coverage sufficiently broad to insure the matters set forth in this Agreement and to include DISTRICT, its officers, agents, employees and engineers, as additional insureds on all insurance policies that BUILDER requires its contractor(s) to provide. As evidence of such insurance coverage, BUILDER shall, prior to commencement of construction of the IRWD FACILITIES, provide DISTRICT with certificates of insurance and insurance endorsements from BUILDER's contractor(s) in a form acceptable to DISTRICT.

SECTION 13. TERMINATION. DISTRICT shall have the right to terminate this Agreement at any time, subject to the provisions of this section, by providing five (5) business days' prior written notice to BUILDER, except as noted in Section 3. If at the request or direction of a party other than BUILDER, the construction of the IRWD FACILITIES is not accomplished or completed, DISTRICT shall remain obligated for the actual amount of the Costs incurred by BUILDER to the date of termination.

If BUILDER's Project is canceled or modified so as to eliminate the necessity of the construction of the IRWD FACILITIES, BUILDER shall have the right to terminate this Agreement and thereby terminate its obligation to construct the IRWD FACILITIES, by providing five (5) business days' prior written notice to DISTRICT. In such case, DISTRICT will not be obligated for any design or any other Costs incurred by BUILDER. If IRWD elects to construct the IRWD FACILITIES, DISTRICT may, but shall not be obligated to, acquire the design or other work from BUILDER by separate agreement. .

SECTION 14. NOTICE. Any notice or other written instrument required or permitted by this Agreement to be given to either party shall be deemed received when personally served or twenty-four (24) hours after being deposited in the U.S. Mail, postage prepaid, registered or certified and addressed as follows:

DISTRICT: Irvine Ranch Water District  
15600 Sand Canyon Avenue  
P.O. Box 57000  
Irvine, CA 92619-7000  
Attn: General Manager

BUILDER: Shea Baker Ranch Associates  
1250 Corona Pointe Court  
Corona, CA 92879  
Attn: Community Development

**SECTION 15. SUCCESSORS AND ASSIGNS; INTEGRATION; AMENDMENT.**

This Agreement shall be binding upon and inure to the benefit of the successor and assigns of BUILDER and DISTRICT. This Agreement constitutes the entire Agreement between BUILDER and DISTRICT and supersedes all prior understandings and agreements between the parties with respect to the subjects hereof. This Agreement may be modified only in writing signed by both parties hereto.

**SECTION 16. LEGAL FEES.** In the event of any declaratory or other legal or equitable action instituted between BUILDER and DISTRICT in connection with this Agreement, the prevailing party shall be entitled to recover from the losing party all of its costs and expenses, including court costs and reasonable attorneys' fees.

**SECTION 17. DEEMED APPROVAL.** Any approval required to be given by either party pursuant to this Agreement shall be deemed given if no response to the party's request for such approval is received by the requesting party within fifteen (15) days following the written request for such approval.

**SECTION 18. SEVERABILITY.** If any term, provision, covenant or condition of this Agreement is held to be invalid, void or other unenforceable, to any extent, by any court of competent jurisdiction, the remainder of this Agreement shall not be affected thereby, and each term provision, covenant or condition of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

**SECTION 19. APPLICABLE LAW.** This Agreement shall be construed and enforced in accordance with the laws of the State of California.

**SECTION 20. WAIVER.** The waiver of any provision of this Agreement by either party shall not be deemed to be a waiver of any other provision or of any preceding or subsequent breach hereunder.

IN WITNESS WHEREOF, the parties to the Agreement have executed this Agreement on the date herein above written.

**IRVINE RANCH WATER DISTRICT**

By \_\_\_\_\_  
Paul Cook, General Manager

Dated \_\_\_\_\_

**ATTEST:**

By \_\_\_\_\_  
Secretary/Assistant Secretary

Dated \_\_\_\_\_

**APPROVED AS TO FORM:**

By \_\_\_\_\_  
Legal Counsel, IRWD

Dated \_\_\_\_\_

**BUILDER:**

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

Dated \_\_\_\_\_

**ATTEST:**

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

Dated \_\_\_\_\_

**APPROVED AS TO FORM:**

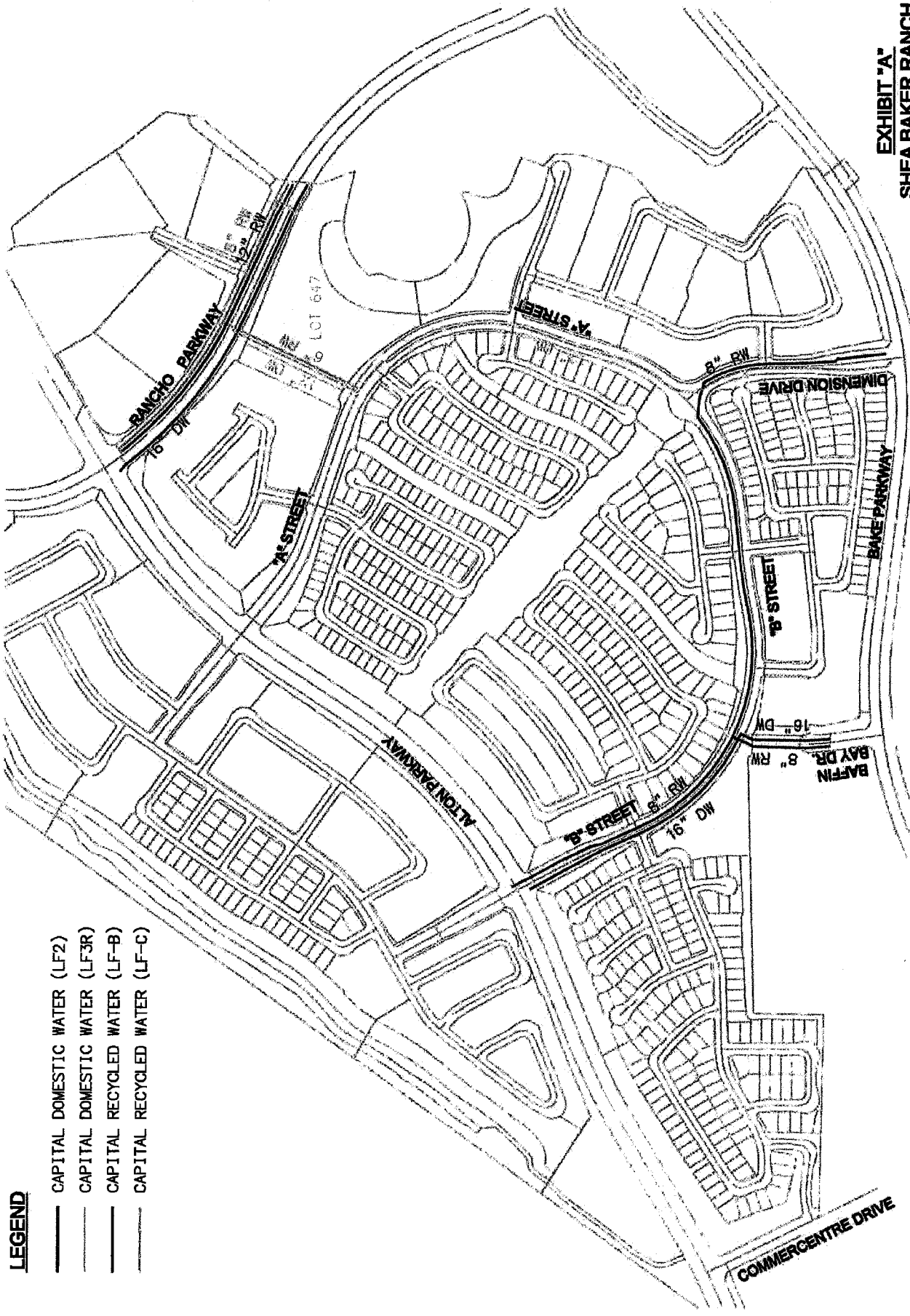
By \_\_\_\_\_  
Attorney for BUILDER

Dated \_\_\_\_\_

**EXHIBIT "A"**  
**SHEA BAKER RANCH**  
**ASSOCIATES**  
**CAPITAL FACILITIES**



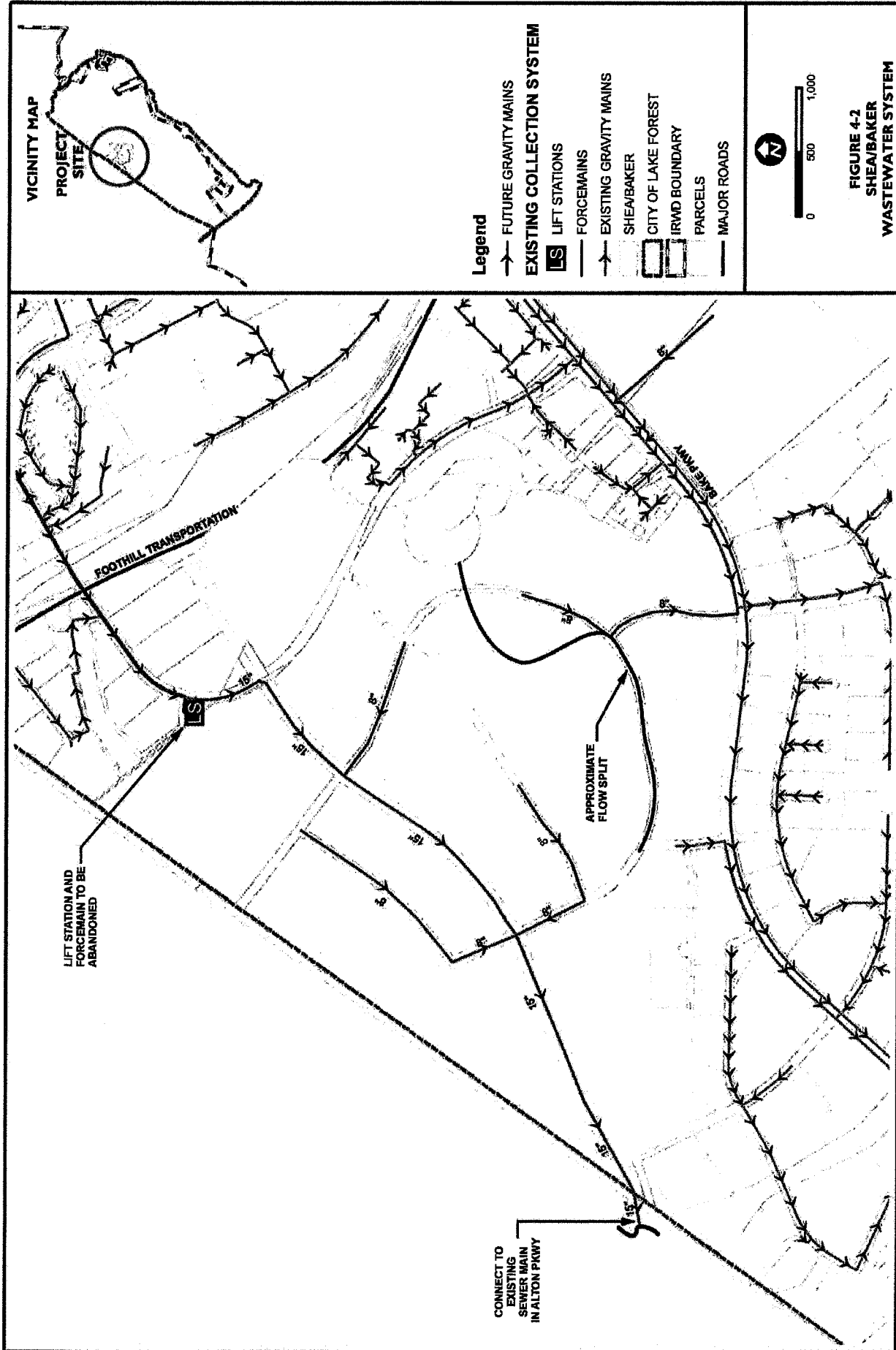
DATE: 8-13-12



**LEGEND**

- CAPITAL DOMESTIC WATER (LF2)
- CAPITAL DOMESTIC WATER (LF3R)
- CAPITAL RECYCLED WATER (LF-B)
- CAPITAL RECYCLED WATER (LF-C)












September 24, 2012  
Prepared and  
Submitted by: Janet Wells  
Approved by: Paul Cook 

ACTION CALENDAR

MEMORANDUM OF UNDERSTANDING WITH THE  
IRVINE RANCH WATER DISTRICT EMPLOYEES ASSOCIATION

SUMMARY:

On June 19, 2012, the general employees of a proposed bargaining unit voted in favor of representation by the Irvine Ranch Water District Employees Association (IRWDEA). General Manager Paul Cook, Director of Human Resources Janet Wells, and special legal counsel James Payne and Jim Moss of Payne and Fears, LLP were appointed by the IRWD Board of Directors to act as negotiators to develop a Memorandum of Understanding (MOU) between the two parties. Negotiations were completed and the IRWDEA members voted to approve the MOU negotiated. Staff recommends that the Board authorize the General Manager to execute a MOU with IRWDEA subject to non-substantive changes.

BACKGROUND:

General Manager Cook and Director of Human Resources Wells met with the IRWDEA Board on several occasions to provide data and facts regarding health insurance, CalPERS retirement changes, deferred compensation and other benefits and areas of interest. Additionally, the IRWDEA Board was provided information regarding the objectives and impacts associated with the proposed changes in benefits and other areas of concern. After reviewing the information presented the IRWDEA Board conducted a meeting with its members where this information was provided to the membership for discussion, along with the proposed MOU between IRWD and the IRWDEA. On September 12, 2012, the dues-paying members of the IRWDEA voted on the proposed MOU and it was approved by a vote of 36 "For" and six "Opposed".

The MOU, a collaboration of recommendations and decisions made by the District and the IRWDEA Board members, is now being presented to the IRWD Board for final approval. The MOU, attached as Exhibit "A", has been reviewed by the District's legal counsel, Payne and Fears, as well as IRWDEA's legal counsel.

FISCAL IMPACTS:

The funds for the benefits and terms discussed in the proposed MOU are included in the IRWD Fiscal Year 2012-13 Operating Budget and actual projected expenses compared to budget will be brought back to the Board as each item is approved by the Board.

ENVIRONMENTAL COMPLIANCE:

Not applicable.



RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE THE MEMORANDUM OF UNDERSTANDING BETWEEN IRWD AND THE IRWDEA, SUBJECT TO NON-SUBSTANTIVE CHANGES.

LIST OF EXHIBITS

Exhibit "A" – Memorandum of Understanding

## **EXHIBIT "A"**

### **Memorandum of Understanding**

**Between IRWDEA and IRWD**

**September 24, 2012**

#### **TERM OF AGREEMENT**

The terms and conditions of this Memorandum of Understanding ("MOU") shall remain in full force and effect from September 25, 2012 until September 24, 2013 inclusive. This MOU represents the total agreement between the parties. Neither party shall be compelled to negotiate on any subject within the scope of this Agreement during the term of this Agreement without the express agreement of the other. If either party desires to make any changes or modifications of this Agreement for the ensuing period, it shall give notice to the other party not less than sixty (60) days prior to the termination of this Agreement, in writing.

#### **SCOPE OF AGREEMENT**

**Recognition.** This Agreement shall apply to IRWD's employees in the positions listed in Exhibit A, excluding managerial, confidential and supervisory employees as defined in the Meyers Miliias Brown Act and applicable Public Employee Relations Board regulations.

**Representation.** The IRWD recognizes the Association as the exclusive representative of all employees covered hereby for the purpose of meeting and conferring, as defined by the Meyers Miliias Brown Act, with respect to wages, hours and working conditions.

## DISTRICT RIGHTS

A. The District shall retain and continue to have sole and exclusive responsibility and right, except as otherwise expressly and clearly provided by this Agreement, to manage, plan, direct and control all aspects of its operations, to direct its employees and its work force; to hire, promote, transfer, demote, layoff, recall, discipline, suspend or discharge employees at will and in its sole discretion; to assign and reassign employees to new or different duties or classifications, hours of work and shifts; to add or delete job classifications and duties; to establish rules and regulations not in direct conflict with this Agreement; to introduce new and improved methods of operation; to subcontract to others any work on or off premises; to set and attain work and production standards; to improve quality; to reduce costs; to perform any and all other things which the District deems necessary and desirable for the efficient and successful operation of its business, subject to any meet and confer obligations imposed by the Meyers Milias Brown Act.

The District shall be the sole judge as to the reliability, competency and performance of any of the employees. All employees must perform their work to the satisfaction of the District.

Nothing in this Agreement shall limit the District's management functions, under which it shall have, among others, the right to determine the qualifications of employees; to observe and evaluate an employee's job performance and to apply disciplinary action as the District deems necessary, desirable or appropriate; and to require employees to observe District rules and regulations presently in effect and/or to be put into effect, provided they are not in direct violation with the provisions of this Agreement, subject to any meet and confer obligations imposed by the Meyers Milias Brown Act.

B. It is the exclusive right of the District to administer the merit system.

C. Without limiting the above, the District retains the authority to take whatever action may be necessary when it determines there exists an emergency situation.

D. The right and responsibility of final decisions regarding wages, hours, fringe benefits, working conditions, and other terms and conditions of employment resides solely with the District's Board, subject to any meet and confer obligations imposed by the Meyers Milias Brown Act law.

E. This Agreement shall not abridge any right to a "Skelly" hearing, if such right is due to an employee independent of this Agreement.

#### CONTRIBUTION TO CalPERS RETIREMENT BENEFIT

Employees hired by the District on or after September 29, 2012 and through December 31, 2012 who are members of IRWDEA shall be enrolled for CalPERS retirement benefits at 2% at age 60 and will contribute the full amount of the employee portion of the CalPERS contribution commencing at their date of hire. Employees hired on or after January 1, 2013 who are members of IRWDEA shall be enrolled for CalPERS retirement benefits at 2% at age 62 as mandated by the California Public Employees' Pension Reform Act of 2012 (PEPRA), and will contribute an employee contribution of 50% of the total normal cost of benefits, limited to a maximum of 8% of compensation as provided by PEPRA. Employees who are hired on or after January 1, 2013 that have worked for another CalPERS or other reciprocal agency without a six month break in service may be eligible to participate in the IRWD CalPERS retirement benefit in effect for new hires on December 31, 2012.

For IRWDEA employees hired before the effective date of this Agreement, the District's Employer Paid Member Contribution (EPMC) benefit shall be modified by the District to consist of paying the portion of the normal member contribution equal to two percent (2%) of pay effective March 1, 2013, with the effect that such IRWDEA employees shall contribute 6% of their salary as the employee share of the CalPERS normal retirement contribution from March 1, 2013 until March 1, 2014 provided the cost of living adjustment (COLA) as defined herein for the prior year effective December 1, 2012 is greater than zero. If the COLA is zero or a negative number, the 1% increase to the employee contribution to CalPERS will not be adjusted until the following year effective March 1, 2014.

It is the intent that this section shall be construed in a manner consistent with PEPRAs; to the extent of any conflict between PEPRAs and this MOU, PEPRAs shall be controlling. Resolutions, amendments to the District's contract with CalPERS and such other proceedings and documents as may be necessary or requested by CalPERS to implement the changes to the CalPERS retirement benefits as discussed in this MOU will be submitted for adoption by the District's Board.

#### COST OF LIVING ADJUSTMENT

On December 1, 2012, IRWDEA employees shall receive a Cost of Living Adjustment equal to the change in the Consumer Price Index for the Orange-Riverside-Los Angeles All Urban Consumers, as measured from September 2011 to September 2012. In the event that the actual change in CPI from September 2011 to September 2012 is a negative number, the District agrees to carry this negative adjustment forward to December 1, 2013 and apply the negative balance to any positive changes in CPI for that year.



### DEFERRED COMPENSATION

The District will continue to match up to 3% of employees' contribution to the District's deferred compensation plan during the term of this Agreement.

### HEALTHCARE BENEFITS CONTRIBUTION

IRWDEA Employees will continue to receive CalPERS medical insurance for which employee premiums will be paid partly by the District. Beginning January 1, 2013, employee contributions to the premiums for each Plan provided by the District will be increased to the amounts set forth in Exhibit B.

### REGULAR WORK TIME TO PERFORM IRWDEA

IRWDEA Board Members will be allowed reasonable time to meet with management and to perform IRWDEA duties as needed. Time spent during regular work hours must be approved in advance by the Director of Human Resources or the General Manager.

### OTHER BENEFITS AND FORMS OF COMPENSATION

All other benefits and forms of compensation not specifically mentioned in this MOU shall remain unchanged for the duration of the MOU.

### AGENCY SHOP/IRWDEA FEES AND/OR DUES

There shall be no "agency shop" requirements. The District will deduct IRWDEA fees and/or dues in the amount specified by any employee who voluntarily authorizes such payroll deduction

in writing on a payroll deduction form provided by the District. The collected fees and dues will be automatically deposited to the IRWDEA bank account provided by the IRWDEA Board and on file with the District. Such authorization shall remain in effect for one year, but may be revoked by the employee at any time.

#### NO LOCKOUT/WORK STOPPAGES

No employee shall engage in a strike, work stoppage, slowdown, job action, sick-in, sick-out, or any concerted interference with work of the District or impeding of work or business of the District. Due to the direct threat to public health and safety that would result, participation by any employee in a strike, work stoppage, slowdown, job action, sick-in, sick-out, or any concerted interference with work of the District or impeding of work or business of the District shall subject the employee to immediate discharge at the sole discretion of the District. Without limiting the foregoing, the District shall be entitled to injunctive relief to end any such strike, work stoppage, slowdown, job action, sick-in, sick-out, or any concerted interference with work of the District or impeding of work or business of the District

For the purposes of this Agreement, "strike" or "striking activity" is defined to mean or include engaging or directly participating in any strike, slowdown, job action, sick-in, sick-out, or any concerted interference with the work of the District or impending of work or business of the District.

#### SAVINGS CLAUSE

Should any part hereof or any provision herein contained be rendered or declared illegal or an unfair labor practice by reason of any existing or subsequently enacted legislation, or by any decree of a court of competent jurisdiction, or by the decision of any authorized

governmental agency, including the Public Employee Relations Board, such invalidation of such part or portion of this Agreement shall not invalidate the remaining portions hereof; provided however, upon such invalidation the parties agree immediately to meet and negotiate substitute provisions for such parts or provisions rendered or declared illegal or an unfair labor practice. The remaining parts or provisions shall remain in full force and effect.

ADOPTED, SIGNED and APPROVED this \_\_\_\_ day of September 2012.

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Craig M. Irely, President  
IRVINE RANCH WATER DISTRICT EMPLOYEES ASSOCIATION  
and of the Association thereof

---

Paul A. Cook, General Manager  
IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:  
PAYNE AND FEARS, LLP  
Legal Counsel - IRWD

**Positions Included in the General Employees Unit of the IRWDEA  
September 24, 2012**


Accountant  
Accounting Clerk  
Assistant Engineer/Planner  
Automation Programmer  
Automation Specialist  
Automation Technician  
Buyer  
Collection Systems Technician I  
Collection Systems Technician II  
Collections Systems CCTV Tech II  
Computer Operator  
Construction Inspector I  
Construction Inspector II  
Construction Inspector III  
Cross Connection Specialist  
Customer Service Field Technician  
Customer Service Specialist I  
Customer Service Specialist II  
Customer Service Specialist III  
Electrical Technician  
Electrical/Instrumentation Designer  
Engineer/Planner  
Engineering Technician I  
Engineering Technician II  
Engineering Technician III  
Facilities Services Technician  
Government Affairs Assistant  
Information Services Coordinator  
Instrumentation Technician  
Laboratory Analyst  
Laboratory QA/QC  
Landscape Contracts Administrator  
Mail Coordinator  
Maintenance Apprentice  
Maintenance Mechanic  
Material Control Clerk I  
Material Control Clerk II  
Metering Systems Technician I  
Metering Systems Technician II  
Metering Systems Technician III

**Positions Included in General Employees Unit of IRWDEA - Continued**

Office Assistant  
Office Specialist  
Operations Coordinator  
Operator I  
Operator II  
Operator III  
Programmer/Analyst  
Public Affairs Specialist  
Purchasing Coordinator  
Recycled Water Project Specialist  
Recycled Water Specialist  
Right of Way Agent  
Risk Analyst  
Safety & Security Specialist  
Scientist  
Senior Accounting Clerk  
Senior Buyer  
Senior Collection Systems CCTV Tech  
Senior Collection Systems Technician  
Senior Computer Operator  
Senior Customer Service Field Technician  
Senior Electrical Technician  
Senior Instrumentation Technician  
Senior Maintenance Mechanic  
Senior Office Specialist  
Senior Purchasing Coordinator  
Senior Recycled Water Specialist  
Senior Scientist  
Senior Vehicle/Equipment Maint Mech  
Senior Water Use Efficiency Specialist  
Senior Wetlands Specialist  
Treasury Analyst  
Utility Worker  
Vehicle/Equip Maintenance Mechanic  
Water & Energy Resources Manager  
Water Maintenance Technician I  
Water Maintenance Technician II  
Water Maintenance Technician III  
Water Resources Manager  
Water Use Efficiency Analyst  
Water Use Efficiency Specialist  
Wetlands Specialist

*2013 Monthly Premiums/Contributions*

Plan Providers	2013 Premium Change	2012 Employee Contribution (Emp/ Emp+1/Fam)	2012 District Contribution (Emp/ Emp+1/Fam)	Proposed 2013 Employee Contribution (Emp/ Emp+1/Fam)	Proposed 2013 District Contribution (Emp/ Emp+1/Fam)	Total 2013 Premium (Emp/ Emp+1/Fam)
PERS Choice PPO	16.17%	\$36 / \$71 / \$107	\$490 / \$980 / \$1261	\$60 / \$120 / \$160	\$551 / \$1103 / \$1429	\$611 / \$1223 / \$1589
Blue Shield Access Plus	10.34%	\$88 / \$178 / \$246	\$495 / \$989 / \$1271	\$92 / \$184 / \$246	\$552 / \$1104 / \$1428	\$644 / \$1288 / \$1674
Kaiser Permanente	9.01%	\$15 / \$30 / \$54	\$498 / \$996 / \$1279	\$7 / \$15 / \$33	\$552 / \$1103 / \$1420	\$559 / \$1118 / \$1453
PERS Care PPO	5.23%	\$421 / \$843 / \$1110	\$490 / \$980 / \$1261	\$441 / \$882 / \$1152	\$552 / \$1103 / \$1429	\$993 / \$1985 / \$2581
PERS Select PPO	-0.04%	\$20 / \$40 / \$60	\$427 / \$853 / \$1101	\$20 / \$40 / \$60	\$426 / \$853 / \$1101	\$446 / \$893 / \$1161
Blue Shield NetValue	9.58%	\$7 / \$15 / \$33	\$495 / \$989 / \$1272	\$7 / \$15 / \$33	\$543 / \$1085 / \$1397	\$550 / \$1100 / \$1430

September 24, 2012  
Prepared by: Gretchen Maswadeh  
Submitted by: Janet Wells  
Approved by: Paul Cook 

## ACTION CALENDAR

### FINAL RESOLUTION TO AMEND CALPERS CONTRACT

#### SUMMARY:

California Public Employees' Retirement System (CalPERS) has provided a Final Resolution to amend IRWD's contract to provide for the following:

- Provide Section 20475 – Different Level of Benefits
- Addition of Section 21353 – 2% @ 60 Full Formula
- Addition of Section 20037 – Three-Year Final Compensation

Section 21353 and Section 20037 are applicable to local miscellaneous employees entering membership for the first time in the miscellaneous classification after the effective date of the amendment to the contract. The required local miscellaneous member contribution for Section 21353 is 7.0% of reportable earnings for those miscellaneous members entering membership for the first time in the miscellaneous classification after the effective date of the amendment to the contract.

#### BACKGROUND:

At the Board workshop on February 22, 2012 and the Finance and Personnel Committee meeting on March 5, 2012, staff was directed to proceed with the necessary steps to implement a second pension tier for newly hired employees. Employees hired on or after the effective date of the contract amendment will be covered under the 2% @ 60 formula and pay the full 7.0% required Employee Contribution. Employees hired after the implementation of the Public Employees Pension Reform Act (PEPRA) will be covered under the mandated formula based on their status as "new members," as defined under PEPRA. In its current form, PEPRA stipulates that future employees hired as "existing members" of CalPERS will be covered under the formula IRWD has in place as of December 31, 2012.

The approval of the Resolution of Intention for adopting the 2% @ 60 formula occurred on April 9, 2012. The adoption of the Final Resolution and execution of the Amendment to Contract is the last step in the contract amendment process. The Resolution and Amendment to the Contract is included as Exhibit "A." A summary of the major provisions for Section 21353 is included as Exhibit "B."

This change in benefits, as described above, is included in the terms of the Memorandum of Understanding (MOU) between IRWD and the IRWD Employees Association presented to the IRWD Board in an item earlier on the agenda of this meeting.

FISCAL IMPACTS:

The projected fiscal impacts for the contract amendment were reviewed at the Finance and Personnel Committee meeting on April 4, 2012 and with the Board at its meeting on April 23, 2012.

A copy of the letter received from CalPERS regarding the projected Employer Contribution rate impact from this amendment is included as Exhibit “C”. The final information received from CalPERS projects a future decrease in the Employer Contribution rate of 2.7% at the time when the mix of active member entry ages is the same for both the existing tier of benefits and the new tier. This decrease will be impacted by the implementation of the new 2% @ 62 formula legislated by PEPR. The impact of these changes will occur gradually, beginning no earlier than July 1, 2014, and will be based on the ratio of the second and third tier annual payroll as compared to the District’s annual payroll as of June 30, 2011 (the most recent valuation available at the time of the contract amendment). IRWD is required to disclose that the decreases in the employer rate will occur as employees are hired into the second tier.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

On March 5, 2012, the committee recommended staff request a valuation and contract amendment documents from CalPERS. On April 4, 2012, the committee reviewed the effect of the contract amendment on future Employer Contribution rates.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE:

RESOLUTION NO. 2012-\_\_

RESOLUTION AUTHORIZING AN AMENDMENT TO THE CONTRACT  
(BETWEEN THE BOARD OF ADMINISTRATION  
CALIFORNIA PUBLIC EMPLOYEES’ RETIREMENT SYSTEM AND  
THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT)

LIST OF EXHIBITS:

- Exhibit “A” – Resolution and Amendment to CalPERS Contract
- Exhibit “B” – Summary of Major Provisions of Section 21353 – 2% @ 60 Full Formula
- Exhibit “C” – Letter to IRWD regarding the contract amendment impact on future Employer Contribution rates



**EXHIBIT "A"**

**IRVINE RANCH WATER DISTRICT**

**RESOLUTION  
AUTHORIZING AN AMENDMENT TO THE CONTRACT**

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

WHEREAS, the Board of Administration of the California Public Employees' Retirement System and the Board of Directors of the Irvine Ranch Water District entered into a contract effective on March 1, 1965 providing for the participation of said public agency in the California Public Employees' Retirement System; and

WHEREAS, it is now desirable to take advantage of certain benefits provided under said Retirement System and not included in said contract;

NOW, THEREFORE, BE IT RESOLVED, that said governing body authorized, and it does hereby authorize, an amendment to said contract, a copy of said amendment attached hereto and by such reference made a part hereof as though herein set out in full; and

NOW, THEREFORE, BE IT FURTHER RESOLVED, that the presiding officer of said governing body is hereby authorized, empowered and directed to execute said amendment for and on behalf of said public agency.

Adopted this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Presiding Officer

Attest:

\_\_\_\_\_  
Clerk/Secretary



## EXHIBIT

California  
Public Employees' Retirement System

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# AMENDMENT TO CONTRACT

Between the  
Board of Administration  
California Public Employees' Retirement System  
and the  
Board of Directors  
Irvine Ranch Water District

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The Board of Administration, California Public Employees' Retirement System, hereinafter referred to as Board, and the governing body of the above public agency, hereinafter referred to as Public Agency, having entered into a contract effective March 1, 1965, and witnessed February 5, 1965, and as amended effective June 16, 1979, July 25, 2000, December 31, 2000, February 1, 2003, September 1, 2004, November 16, 2006 and July 1, 2008 which provides for participation of Public Agency in said System, Board and Public Agency hereby agree as follows:

- A. Paragraphs 1 through 14 are hereby stricken from said contract as executed effective July 1, 2008, and hereby replaced by the following paragraphs numbered 1 through 16 inclusive:
  1. All words and terms used herein which are defined in the Public Employees' Retirement Law shall have the meaning as defined therein unless otherwise specifically provided. "Normal retirement age" shall mean age 55 for local miscellaneous members entering membership in the miscellaneous classification on or prior to the effective date of this amendment to contract and age 60 for local miscellaneous members entering membership for the first time in the miscellaneous classification after the effective date of this amendment to contract.

2. Public Agency shall participate in the Public Employees' Retirement System from and after March 1, 1965 making its employees as hereinafter provided, members of said System subject to all provisions of the Public Employees' Retirement Law except such as apply only on election of a contracting agency and are not provided for herein and to all amendments to said Law hereafter enacted except those, which by express provisions thereof, apply only on the election of a contracting agency.
3. Public Agency agrees to indemnify, defend and hold harmless the California Public Employees' Retirement System (CalPERS) and its trustees, agents and employees, the CalPERS Board of Administration, and the California Public Employees' Retirement Fund from any claims, demands, actions, losses, liabilities, damages, judgments, expenses and costs, including but not limited to interest, penalties and attorneys fees that may arise as a result of any of the following:
  - (a) Public Agency's election to provide retirement benefits, provisions or formulas under this Contract that are different than the retirement benefits, provisions or formulas provided under the Public Agency's prior non-CalPERS retirement program.
  - (b) Public Agency's election to amend this Contract to provide retirement benefits, provisions or formulas that are different than existing retirement benefits, provisions or formulas.
  - (c) Public Agency's agreement with a third party other than CalPERS to provide retirement benefits, provisions, or formulas that are different than the retirement benefits, provisions or formulas provided under this Contract and provided for under the California Public Employees' Retirement Law.
  - (d) Public Agency's election to file for bankruptcy under Chapter 9 (commencing with section 901) of Title 11 of the United States Bankruptcy Code and/or Public Agency's election to reject this Contract with the CalPERS Board of Administration pursuant to section 365, of Title 11, of the United States Bankruptcy Code or any similar provision of law.
  - (e) Public Agency's election to assign this Contract without the prior written consent of the CalPERS' Board of Administration.
  - (f) The termination of this Contract either voluntarily by request of Public Agency or involuntarily pursuant to the Public Employees' Retirement Law.
  - (g) Changes sponsored by Public Agency in existing retirement benefits, provisions or formulas made as a result of amendments, additions or deletions to California statute or to the California Constitution.

4. Employees of Public Agency in the following classes shall become members of said Retirement System except such in each such class as are excluded by law or this agreement:
  - a. Employees other than local safety members (herein referred to as local miscellaneous members).
5. In addition to the classes of employees excluded from membership by said Retirement Law, the following classes of employees shall not become members of said Retirement System:
  - a. **ALL HOURLY PAID OR HOURLY BASIS EMPLOYEES;**
  - b. **ASSESSOR;**
  - c. **COLLECTORS; AND**
  - d. **LOCAL SAFETY EMPLOYEES.**
6. This contract shall be a continuation of the contract of the Los Alisos Water District, hereinafter referred to as "Former Agency". The accumulated contributions, assets and liability for prior and current service under the Former Agency's contract shall be merged pursuant to Section 20508 of the Government Code. Such merger occurred December 31, 2000.
7. This contract shall be a continuation of the contract of the Santiago County Water District, hereinafter referred to as "Former Agency". The accumulated contributions, assets and liability for prior and current service under the Former Agency's contract shall be merged pursuant to Section 20508 of the Government Code. Such merger occurred July 1, 2006.
8. The percentage of final compensation to be provided for each year of credited prior and current service for local miscellaneous members in employment before and not on or after July 1, 2008 shall be determined in accordance with Section 21354 of said Retirement Law, subject to the reduction provided therein for service prior to March 31, 1975, termination of Social Security, for members whose service has been included in Federal Social Security (2% at age 55 Full and Modified).
9. The percentage of final compensation to be provided for each year of credited prior and current service for local miscellaneous members in employment on or after July 1, 2008 and not entering membership for the first time in the miscellaneous classification after the effective date of this amendment to contract shall be determined in accordance with Section 21354.4 of said Retirement Law, subject to the reduction provided therein for service prior to March 31, 1975, termination of Social Security, for members whose service has been included in Federal Social Security (2.5% at age 55 Full and Modified).

10. The percentage of final compensation to be provided for each year of credited current service as a local miscellaneous member entering membership for the first time in the miscellaneous classification after the effective date of this amendment to contract shall be determined in accordance with Section 21353 of said Retirement Law (2% at age 60 Full).
11. Public Agency elected and elects to be subject to the following optional provisions:
  - a. Section 21574 (Fourth Level of 1959 Survivor Benefits).
  - b. Section 20042 (One-Year Final Compensation) for local miscellaneous members entering membership on or prior to the effective date of this amendment to contract.
  - c. Section 20938 (Limit Prior Service to Members Employed on Contract Date).
  - d. Section 21548 (Pre-Retirement Option 2W Death Benefit).
  - e. Section 21024 (Military Service Credit as Public Service).
  - f. Section 20475 (Different Level of Benefits). Section 21353 (2% @ 60 Full formula) and Section 20037 (Three-Year Final Compensation) are applicable to local miscellaneous members entering membership for the first time in the miscellaneous classification after the effective date of this amendment to contract.
12. Public Agency, in accordance with Government Code Section 20790, ceased to be an "employer" for purposes of Section 20834 effective on June 16, 1979. Accumulated contributions of Public Agency shall be fixed and determined as provided in Government Code Section 20834, and accumulated contributions thereafter shall be held by the Board as provided in Government Code Section 20834.
13. Public Agency shall contribute to said Retirement System the contributions determined by actuarial valuations of prior and future service liability with respect to local miscellaneous members of said Retirement System.
14. Public Agency shall also contribute to said Retirement System as follows:
  - a. Contributions required per covered member on account of the 1959 Survivor Benefits provided under Section 21574 of said Retirement Law. (Subject to annual change.) In addition, all assets and liabilities of Public Agency and its employees shall be pooled in a single account, based on term insurance rates, for survivors of all local miscellaneous members.

- b. A reasonable amount, as fixed by the Board, payable in one installment within 60 days of date of contract to cover the costs of administering said System as it affects the employees of Public Agency, not including the costs of special valuations or of the periodic investigation and valuations required by law.
  - c. A reasonable amount, as fixed by the Board, payable in one installment as the occasions arise, to cover the costs of special valuations on account of employees of Public Agency, and costs of the periodic investigation and valuations required by law.
15. Contributions required of Public Agency and its employees shall be subject to adjustment by Board on account of amendments to the Public Employees' Retirement Law, and on account of the experience under the Retirement System as determined by the periodic investigation and valuation required by said Retirement Law.
16. Contributions required of Public Agency and its employees shall be paid by Public Agency to the Retirement System within fifteen days after the end of the period to which said contributions refer or as may be prescribed by Board regulation. If more or less than the correct amount of contributions is paid for any period, proper adjustment shall be made in connection with subsequent remittances. Adjustments on account of errors in contributions required of any employee may be made by direct payments between the employee and the Board.

B. This amendment shall be effective on the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

BOARD OF ADMINISTRATION  
PUBLIC EMPLOYEES' RETIREMENT SYSTEM

BOARD OF DIRECTORS  
IRVINE RANCH WATER DISTRICT

BY \_\_\_\_\_  
KAREN DE FRANK, CHIEF  
CUSTOMER ACCOUNT SERVICES DIVISION  
PUBLIC EMPLOYEES' RETIREMENT SYSTEM

BY \_\_\_\_\_  
PRESIDING OFFICER

\_\_\_\_\_  
Witness Date

Attest:

\_\_\_\_\_  
Clerk

**CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM**

Actuarial and Employer Services Branch  
Public Agency Contract Services  
(888) CalPERS (225-7377)

**SUMMARY OF MAJOR PROVISIONS**

2% @ 60 Formula (Section 21353)  
Local Miscellaneous Members

**SERVICE RETIREMENT**

To be eligible for service retirement, a member must be at least age 50 and have five years of CalPERS credited service. There is no compulsory retirement age.

The monthly retirement allowance is determined by age at retirement, years of service credit and final compensation. The basic benefit is 2% of final compensation for each year of credited service upon retirement at age 60. If retirement is earlier than age 60, the percentage of final compensation decreases for each quarter year of attained age to 1.092% at age 50. If retirement is deferred beyond age 60, the percentage of final compensation increases for each quarter year of attained age to 2.418% at age 63.

Final compensation is the average monthly pay rate during the last consecutive 36 months of employment, or 12 months if provided by the employer's contract, unless the member designates a different period of 36 or 12 consecutive months when the average pay rate was higher.

**DISABILITY RETIREMENT**

Members substantially incapacitated from performing the usual duties for the position for his/her current employer, and from performing the usual duties of the position for other CalPERS covered employers (including State agencies, schools, and local public agencies), and where similar positions with these other employers with reasonably comparable in pay, benefits, and promotional opportunities are not available, would be eligible for disability retirement provided they have at least five years of service credit. The monthly retirement allowance is 1.8% of final compensation for each year of service. The maximum percentage for members who have between 10.000 and 18.518 years of service credit is one-third of their final compensation. If the member is eligible for service retirement the member will receive the highest allowance payable, service or disability. If provided by the employer's contract, the benefit would be a minimum of 30% of final compensation for the first five years of service credit, plus 1% for each additional year of service to a maximum benefit of 50% of final compensation.

**INDUSTRIAL DISABILITY RETIREMENT**

If provided by the employer's contract, members permanently incapacitated from performing their duties, as defined above under Disability Retirement, and the disability is a result of a job-related injury or illness may receive an Industrial Disability Retirement benefit equal to 50% of their final compensation. If provided in the employer's contract and the member is totally disabled, the disability retirement allowance would equal 75% of final compensation in lieu of the disability retirement allowance otherwise provided. If the member is eligible for service retirement, the service retirement allowance is payable. The total allowance cannot exceed 90% of final compensation.

**PRE-RETIREMENT DEATH BENEFITS**

Basic Death Benefit: This benefit is a refund of the member's contributions plus interest and up to six months' pay (one month's salary rate for each year of current service to a maximum of six months).

1957 Survivor Benefit: An eligible beneficiary may elect to receive either the Basic Death Benefit or the 1957 Survivor Benefit. The 1957 Survivor Benefit provides a monthly allowance equal to one-half of the highest service retirement allowance the member would have received had he/she retired on the date of death. The 1957 Survivor Benefit is payable to the surviving spouse or registered domestic partner until death or to eligible unmarried children until age 18.

1959 Survivor Benefit: (If provided by the employer's contract and the member is not covered under social security.) A surviving spouse or registered domestic partner and eligible children may receive a monthly allowance as determine by the level of coverage. This benefit is payable in addition to the Basic Death Benefit or 1957 Survivor Benefit. Children are eligible if under age 22 and unmarried.

Pre-Retirement Optional Settlement 2 Death Benefit: (If provided by the employer's contract.) The spouse or registered domestic partner of a deceased member, who was eligible to retire for service at the time of death, may to elect to receive the Pre-Retirement Optional Settlement 2 Death Benefit in lieu of the lump sum Basic Death Benefit. The benefit is a monthly allowance equal to the amount the member would have received if he/she had retired for service on the date of death and elected Optional Settlement 2, the highest monthly allowance a member can leave a spouse or registered domestic partner.

#### COST-OF-LIVING ADJUSTMENTS

The cost of living allowance increases are limited to a maximum of 2% compounded annually unless the employer's contract provides a 3, 4, or 5% increase.

#### DEATH AFTER RETIREMENT

The lump sum death benefit is \$500 (or \$600, \$2,000, \$3,000, \$4,000 or \$5,000 if provided by the employer's contract) regardless of the retirement plan chosen by the member at the time of retirement.

#### TERMINATION OF EMPLOYMENT

Members who have separated from employment may elect to leave their contributions on deposit or request a refund of contributions and interest. Those who leave their contributions on deposit may apply at a later date for a monthly retirement allowance if the minimum service and age requirements are met. Members who request a refund of their contributions terminate their membership and are not eligible for any future benefits unless they return to CalPERS membership.

#### EMPLOYEE CONTRIBUTIONS

Miscellaneous members covered by the 2% @ 60 formula contribute 7% of reportable earnings. Those covered under a modified formula (coordinated with Social Security) do not contribute on the first \$133.33 earned.

The employer also contributes toward the cost of the benefits. The amount contributed by the employer for current service retirement benefits generally exceeds the cost to the employee. In addition, the employer bears the entire cost of prior service benefits (the period of time before the employer provided retirement coverage under CalPERS). All employer contribution rates are subject to adjustment by the CalPERS Board of Administration.



## EXHIBIT "C"



**California Public Employees' Retirement System**  
**Actuarial Office**  
P.O. Box 942709  
Sacramento, CA 95812-1494  
TTY: (877) 249-7442  
(888) 225-7377 phone • (916) 795-2744 fax  
[www.calpers.ca.gov](http://www.calpers.ca.gov)

March 14, 2012  
CALPERS ID: 5161985321  
Employer Name: IRVINE RANCH WATER DISTRICT  
Rate Plan: MISCELLANEOUS PLAN

Re: New 2% @ 60 Full Formula and 3 Year Final Compensation Second Tier within a Non-pooled Plan (Section 20475: Different Level of Benefits Provided for New Employees)

Dear Requestor:

As requested, employer contribution rate information on your proposed second tier follows.

**If you are aware of others interested in this information (i.e. payroll staff, county court employees, port districts, etc.), please inform them.**

The information is based on the most recent annual valuation and is good until the completion of the next annual valuation, that is, the annual valuation as of June 30, 2011. If your agency has not taken action to amend its contract and we have already completed the June 30, 2011 annual valuation report, **you must contact the Retirement Contract Services Unit for an updated cost analysis.**

**If the employee contribution rate changes, that change would take place immediately.** There will be no immediate employer contribution rate impact from this amendment. Ultimately, though, your employer normal cost will decrease. If the mix of active member entry ages were the same for both the current continuing first tier employees and the new second tier employees, the decrease in the employer rate would be 2.7% and the decrease in the employee contribution rate would be 1%.

The employer rate reduction will occur gradually, beginning on July 1, 2014, if there are second tier employees hired on or before June 30, 2012. For fiscal years 2014/2015 and beyond, the projected annual amount of rate reduction you can expect from introducing a second tier is approximately equal to the ratio of your second tier annual payroll to your total plan annual payroll two and a half years earlier. For example if 1/10 of your Miscellaneous Plan members were in second tier on June 30, 2012 and the ultimate expected normal cost decrease was 2.7%, the cumulative rate reduction you can expect by the 2014/2015 fiscal year would be  $1/10 \times 2.7\% = 0.27\%$ .

To initiate an amendment to the contract, please follow the Contract Amendment Request process on MyCalPERS with our Retirement Contract Services Unit, indicating your wish to contract for Section 20475 (Different Level of Benefits) and identifying the group(s) to which the benefit reduction applies.

In sections 20463 (b) and (c), the California Public Employees' Retirement Law requires the governing body of a public agency within five days of receipt of the contract amendment cost analysis, to provide each employee organization with a copy of the analysis. If this cost analysis was requested by an employee organization, the employee organization is also required within five days of receipt of the analysis, to provide a copy of the analysis to the public agency.

If you have questions, please call (888) CalPERS (225-7377).


A handwritten signature in black ink, appearing to read "Kerry J. Worgan".

KERRY J. WORGAN, MAAA, FSA, FCIA  
Senior Pension Actuary, CalPERS

**California Public Employee's Retirement System**  
[www.calpers.ca.gov](http://www.calpers.ca.gov)

EXHIBIT "C"



September 24, 2012  
Prepared by: Gretchen Maswadeh  
Submitted by: Janet Wells  
Approved by: Paul Cook 

## ACTION CALENDAR

### 2013 MEDICAL INSURANCE COVERAGE RENEWAL

#### SUMMARY:

The District currently utilizes the CalPERS medical insurance program and receives premium rates each year in advance of open enrollment in September or October. For the 2013 calendar year, CalPERS has notified the District of premium increases for each of the specific plans from which IRWD employees can choose.

IRWD has retained a consultant, Aon Hewitt, to review the District's overall retirement and health benefits package to maximize value to the employees and develop an equitable cost sharing method to minimize increasing exposure to rising costs. The study is on-going, with further results to be delivered in the area of health benefits. Initial recommendations from the consultant include continuing in the CalPERS medical insurance program for calendar year 2013. As a result, staff recommends that the District make adjustments to the employee contribution rates for the CalPERS medical plans in line with the District's past practices. With the recommended adjustments to employee contributions and assuming similar plan enrollments as for 2012, the District's projected overall medical insurance costs for FY 2012-13 (\$3,692,688) will increase by 6.7% over projected actual costs for FY 2011-12 (\$3,460,560).

#### BACKGROUND:

##### Medical Insurance Premiums:

The District has been notified that for the 2013 contract year, premiums for the District's plans will change as follows:

	<u>2013 Premiums</u>	<u>2012 Premiums</u>
PERS Care	5.23% increase	15.15% increase
PERS Choice	16.17% increase	1.92% increase
PERS Select	-0.04% decrease	-1.06% decrease
Blue Shield Advantage HMO	10.34% increase	2.77% increase
Blue Shield Net Value HMO	9.58% increase	2.72% increase
Kaiser Permanente	9.01% increase	7.28% increase

##### Plan Design Changes:

Staff has not been notified of any substantive changes to the plan designs or benefits available to employees under the current CalPERS health plan offerings. Employees will be notified of any changes that may affect their health plan choices prior to open enrollment. The CalPERS open enrollment period is September 10, 2012 through October 5, 2012. Employees have been notified during open enrollment meetings in September to make their open enrollment selections by the end of the month.

Proposed Changes to Employee and Employer Contributions:

Staff recommends that modifications be made to employee contributions for calendar year 2013 based on the District's past practice of using the high enrollment PPO plan (PERS Choice) to set employee and employer contributions, and setting the employee and employer contributions for the other plans by using the calculated employer contribution for the PERS Choice plan. For plans with lower monthly premiums than the PERS Choice plan, staff recommends a strategy that shares the potential savings associated with enrollment in these plans between the employee and the employer in order to provide an incentive for employees who elect to enroll in one of these lower cost plans. Attached is Exhibit "A" which outlines the proposed employee and employer costs for this recommendation by plan and in the aggregate.

Employee and employer contributions for 2012 and proposed contributions for 2013 as shown in Exhibit "A" for 2013 are summarized in the tables below.

2012 and Proposed 2013 Monthly Contributions and Premiums

Plan Providers	2013 Premium Change	2012 Employee Contribution (Emp/Emp+1/Fam)	2012 District Contribution (Emp/Emp+1/Fam)	Proposed 2013 Employee Contribution (Emp/Emp+1/Fam)	Proposed 2013 District Contribution (Emp/Emp+1/Fam)	Total 2013 Premium (Emp/Emp+1/Fam)
PERS Care PPO	5.23%	\$421 / \$843 / \$1110	\$490 / \$980 / \$1261	\$441 / \$882 / \$1152	\$552 / \$1103 / \$1429	\$993 / \$1985 / \$2581
PERS Choice PPO	16.17%	\$36 / \$71 / \$107	\$490 / \$980 / \$1261	\$60 / \$120 / \$160	\$551 / \$1103 / \$1429	\$611 / \$1223 / \$1589
PERS Select PPO	-0.04%	\$20 / \$40 / \$60	\$427 / \$853 / \$1101	\$20 / \$40 / \$60	\$426 / \$853 / \$1101	\$446 / \$893 / \$1161
Blue Shield Access +	10.34%	\$88 / \$178 / \$246	\$495 / \$989 / \$1271	\$92 / \$184 / \$246	\$552 / \$1104 / \$1428	\$644 / \$1288 / \$1674
Blue Shield NetValue	9.58%	\$7 / \$15 / \$33	\$495 / \$989 / \$1272	\$7 / \$15 / \$33	\$543 / \$1085 / \$1397	\$550 / \$1100 / \$1430
Kaiser Permanente	9.01%	\$15 / \$30 / \$54	\$498 / \$996 / \$1279	\$7 / \$15 / \$33	\$552 / \$1103 / \$1420	\$559 / \$1118 / \$1453

Proposed 2013 Annual Contributions and Premiums

Plan Providers	Proposed 2013 Employee Contribution (Emp/Emp+1/Fam)	Proposed 2013 District Contribution (Emp/Emp+1/Fam)	Proposed 2013 Employee Contribution as % of Premium (Emp/Emp+1/Fam)	Total 2013 Premium (Emp/Emp+1/Fam)
PERS Choice PPO	\$720/\$1440/\$1920	\$6612/\$13236/\$17148	9.8% / 9.8% / 10.1%	\$7332/\$14676/\$19068
Blue Shield Advantage	\$1104/\$2208/\$2952	\$6624/\$13248/\$17136	14.3% / 14.3% / 14.7%	\$7728/\$15456/\$20088
Kaiser Permanente	\$84/\$180/\$396	\$6624/\$13236/\$17040	1.3% / 1.3% / 2.3%	\$6708/\$13416/\$17436
PERS Care PPO	\$5292/\$10584/\$13824	\$6624/\$13236/\$17148	44.4% / 44.4% / 44.6%	\$11916/\$23820/\$30972
PERS Select PPO	\$240/\$480/\$720	\$5112/\$10236/\$13212	4.5% / 4.5% / 5.2%	\$5352/\$10716/\$13932
Blue Shield NetValue	\$84/\$180/\$396	\$6516/\$13020/\$16764	1.3% / 1.3% / 2.3%	\$6600/\$13200/\$17160

CalPERS Administrative Fees and Reserves:

From July 2011 through June 2012, the CalPERS administrative fee was 0.36%. Staff has been notified that the administrative fee effective July 1, 2012 will decrease to 0.25%. The administrative fee is calculated on total active and total retired health premiums each month. CalPERS can also charge up to 4% for a contingency reserve fund but has not charged once since 1985. There was no contingency reserve fee charged for the 2012 calendar year, and to date we have not been notified of any contingency reserve fees for 2013.

FISCAL IMPACTS:

Renewal of the District's current health insurance coverage with CalPERS, as represented in Table A, will result in total projected expenses for FY 2012-13 of \$3,660,230. The District's budget for this coverage for FY 2012-13 is \$3,826,330. Projected annual medical insurance premiums for FY 2012-13 will be approximately \$166,100 (4.3%) under budget.

ENVIRONMENTAL COMPLIANCE:

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

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE CONTINUANCE OF THE DISTRICT'S HEALTH CARE COVERAGE WITH CALPERS FOR THE CALENDAR YEAR 2013 AND APPROVE CHANGES IN EMPLOYEE CONTRIBUTION LEVELS AS RECOMMENDED.

LIST OF EXHIBITS:

Exhibit "A" – Medical Premium Comparison with Increased Employee Contributions




Irvine Ranch Water District  
**2013 CalPERS Monthly Medical Insurance Premiums Comparison  
and Proposed IRWD Payroll Deductions**

**EXHIBIT "A"**

	2012 Enrollment	2012 Medical Premiums	2013 Medical Premiums	2013 Premium Increases		2012 P/R Deductions	Proposed 2013 P/R Deductions
				\$	%		
<b>PERS Care PPO</b>							
Single	0	\$943.26	\$992.61	\$49.35	5.23%	\$421.00	\$441.00
Two Party	0	\$1,886.52	\$1,985.22	\$98.70	5.23%	\$843.00	\$882.00
Family	<u>0</u>	<u>\$2,452.48</u>	<u>\$2,580.79</u>	\$128.31	5.23%	<u>\$1,110.00</u>	<u>\$1,152.00</u>
	0	\$0.00	\$0.00			\$0.00	\$0.00
<b>PERS Choice PPO</b>							
Single	28	\$526.19	\$611.30	\$85.11	16.17%	\$36.00	\$60.00
Two Party	35	\$1,052.38	\$1,222.60	\$170.22	16.17%	\$71.00	\$120.00
Family	<u>50</u>	<u>\$1,368.09</u>	<u>\$1,589.38</u>	\$221.29	16.18%	<u>\$107.00</u>	<u>\$160.00</u>
	113	\$119,971.12	\$139,376.40			\$8,843.00	\$13,880.00
<b>PERS Select PPO</b>							
Single	1	\$446.68	\$446.49	(\$0.19)	-0.04%	\$20.00	\$20.00
Two Party	0	\$893.36	\$892.98	(\$0.38)	-0.04%	\$40.00	\$40.00
Family	<u>2</u>	<u>\$1,161.37</u>	<u>\$1,160.87</u>	(\$0.50)	-0.04%	<u>\$60.00</u>	<u>\$60.00</u>
	3	\$2,769.42	\$2,768.23			\$140.00	\$140.00
<b>Blue Shield Access +</b>							
Single	11	\$583.60	\$643.93	\$60.33	10.34%	\$88.00	\$92.00
Two Party	7	\$1,167.20	\$1,287.86	\$120.66	10.34%	\$178.00	\$184.00
Family	<u>28</u>	<u>\$1,517.36</u>	<u>\$1,674.22</u>	\$156.86	10.34%	<u>\$246.00</u>	<u>\$246.00</u>
	46	\$57,076.08	\$62,976.41			\$9,102.00	\$9,188.00
<b>Blue Shield NetValue</b>							
Single	7	\$501.93	\$550.03	\$48.10	9.58%	\$7.00	\$7.00
Two Party	1	\$1,003.86	\$1,100.06	\$96.20	9.58%	\$15.00	\$15.00
Family	<u>13</u>	<u>\$1,305.02</u>	<u>\$1,430.08</u>	\$125.06	9.58%	<u>\$33.00</u>	<u>\$33.00</u>
	21	\$21,482.63	\$23,541.31			\$493.00	\$493.00
<b>Kaiser HMO</b>							
Single	18	\$512.76	\$558.95	\$46.19	9.01%	\$15.00	\$7.00
Two Party	18	\$1,025.52	\$1,117.90	\$92.38	9.01%	\$30.00	\$15.00
Family	<u>49</u>	<u>\$1,333.18</u>	<u>\$1,453.27</u>	\$120.09	9.01%	<u>\$54.00</u>	<u>\$33.00</u>
	85	\$93,014.86	\$101,393.53			\$3,456.00	\$2,013.00
<b>PERS Choice LA</b>							
Single	0	\$505.63	\$587.46	\$81.83	16.18%	\$36.00	\$60.00
Two Party	3	\$1,011.26	\$1,174.92	\$163.66	16.18%	\$71.00	\$120.00
Family	<u>3</u>	<u>\$1,314.64</u>	<u>\$1,527.40</u>	\$212.76	16.18%	<u>\$107.00</u>	<u>\$160.00</u>
	6	\$6,977.70	\$8,106.96			\$534.00	\$840.00
<b>PERS Select LA</b>							
Single	0	\$429.22	\$429.08	(\$0.14)	-0.03%	\$20.00	\$20.00
Two Party	0	\$858.44	\$858.16	(\$0.28)	-0.03%	\$40.00	\$40.00
Family	<u>0</u>	<u>\$1,115.97</u>	<u>\$1,115.61</u>	(\$0.36)	-0.03%	<u>\$60.00</u>	<u>\$60.00</u>
	0	\$0.00	\$0.00			\$0.00	\$0.00
<b>Blue Shield Access + LA</b>							
Single	1	\$510.72	\$530.75	\$20.03	3.92%	\$88.00	\$92.00
Two Party	1	\$1,021.44	\$1,061.50	\$40.06	3.92%	\$178.00	\$184.00
Family	<u>1</u>	<u>\$1,327.87</u>	<u>\$1,379.95</u>	\$52.08	3.92%	<u>\$246.00</u>	<u>\$246.00</u>
	3	\$2,860.03	\$2,972.20			\$512.00	\$522.00
<b>Blue Shield Net Value LA</b>							
Single	0	\$439.25	\$453.35	\$14.10	3.21%	\$7.00	\$7.00
Two Party	1	\$878.50	\$906.70	\$28.20	3.21%	\$15.00	\$15.00
Family	<u>2</u>	<u>\$1,142.05</u>	<u>\$1,178.71</u>	\$36.66	3.21%	<u>\$33.00</u>	<u>\$33.00</u>
	3	\$3,162.60	\$3,264.12			\$81.00	\$81.00
<b>Kaiser LA</b>							
Single	2	\$465.63	\$502.40	\$36.77	7.90%	\$15.00	\$7.00
Two Party	1	\$931.26	\$1,004.80	\$73.54	7.90%	\$30.00	\$15.00
Family	<u>2</u>	<u>\$1,210.64</u>	<u>\$1,306.24</u>	\$95.60	7.90%	<u>\$54.00</u>	<u>\$33.00</u>
	5	\$4,283.80	\$4,622.08			\$168.00	\$95.00
<b>No coverage</b>							
Single	1	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
Two Party	5	\$0.00	\$0.00	\$0.00		\$0.00	\$0.00
Family	<u>6</u>	<u>\$0.00</u>	<u>\$0.00</u>	\$0.00		<u>\$0.00</u>	<u>\$0.00</u>
	12	\$0.00	\$0.00			\$0.00	\$0.00
Monthly Premium		\$311,598.24	\$349,021.24				
Less: Employee Contributions		23,329.00	27,252.00				
Net Monthly Premium		288,269.24	321,769.24				
Net Annual Premium		3,459,230.88	3,861,230.88	402,000.00	11.62%		





September 24, 2012  
Prepared by: M. Jack  
Submitted by: K. Burton  
Approved by: Paul Cook 

## ACTION CALENDAR

### ON-CALL CONSTRUCTION INSPECTION SERVICES

#### SUMMARY:

The current construction inspection workload for capital, development and operational improvement projects continues to exceed a level that cannot be supported by the District's inspection staff. Staff recommends that the Board authorize the General Manager to execute a Professional Services Agreement with AndersonPenna in the amount of \$400,000 for two years of on-call construction inspection services.

#### BACKGROUND:

The District's current and upcoming inspection workload for capital, development and operational improvement projects continues to exceed the level that cannot be supported by the District's inspection staff. The District's construction inspection group consists of five staff inspectors and one consultant field inspector that are currently responsible for the inspection, field coordination, documentation and record drawing preparation of over 147 projects spread across the District. The group is also supported by an additional three consultant treatment plant inspectors that are assigned to the Michelson Water Recycling Plant (MWRP) Phase II Expansion Project and Wells 21 and 22 Desalter Project.

Based on currently active and upcoming construction projects, staff anticipates the need for the continued support of one full time field inspector for a period of up to two years. The three consultant treatment plant inspectors will also continue to be utilized on the upcoming MWRP Biosolids and Baker Water Treatment Plant projects. Upon completion of the current high volume of construction projects, staff anticipates that these inspection services will no longer be required as the workload should return to a level that can be supported by District inspection staff.

#### Construction Inspector Selection Process:

The current consultant field inspector provided by Tetra Tech has worked well within the inspection group and has demonstrated the ability to inspect and coordinate multiple projects simultaneously. The existing one year on-call inspection services contract with Tetra Tech in the amount of \$200,000 is nearly expended and Mark Sanchez, the inspector assigned to IRWD, is in the process of changing employment to AndersonPenna.

Staff met with AndersonPenna, the construction management and inspection services company, that recently hired Mark Sanchez and negotiated the same very favorable fully burdened rate of \$95 per hour for Mark Sanchez, which includes a truck and fuel, cell phone and laptop computer.

Staff recommends awarding a Professional Services Agreement to AndersonPenna in the amount of \$400,000 for up to two years of on-call field inspection services. AndersonPenna's scope of work and billing rate schedule are attached as Exhibit "A".

FISCAL IMPACTS:

Funding for the construction inspection services will be provided from the various developer and capital projects being constructed as part of each project's budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on September 18, 2012.

RECOMMENDATION:

THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH ANDERSONPENNA IN THE AMOUNT OF \$400,000 FOR ON-CALL CONSTRUCTION INSPECTION SERVICES.

LIST OF EXHIBITS:

Exhibit "A" – AndersonPenna Inspection On-Call Proposal

# EXHIBIT "A"



24 August 2012

Mr. Mike Jack  
Construction Inspection Manager  
Irvine Ranch Water District  
15600 Sand Canyon Avenue  
Irvine, California 92618  
email: jack@irwd.com

**Subject: Proposal to Provide As Needed Inspection Services**

Dear Mike:

Pursuant to your recent request, AndersonPenna Partners is pleased to submit this letter proposal offering candidates to provide as needed inspection for the Irvine Ranch Water District projects.

Attached are several inspector resumes and a rate schedule that includes rates for both prevailing wage and non-prevailing wage regular and overtime work.

We appreciate the opportunity to propose on this work, and hope to establish a positive working relationship with the District. If there are any questions regarding this proposal, please contact me at (951) 840-5920 or [GHeinbuch@andpen.com](mailto:GHeinbuch@andpen.com)

Respectfully submitted,  
AndersonPenna Partners, Inc.

Digitally signed by Gary Heinbuch  
DN: cn=Gary Heinbuch,  
o=AndersonPenna Partners, Inc.,  
ou=Construction Services,  
email=gheinbuch@andpen.com, c=US  
Date: 2012.08.26 20:23:05 -07'00'

Gary Heinbuch  
Senior Construction Manager

Dino P. D'Emilia  
Vice President, Construction Services

20280 Acacia Street, Suite 100 • Newport Beach, CA 92660

[www.andpen.com](http://www.andpen.com)

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PHN 949 428 1500 • FAX 949 258 5053

Certified UDBE

## Mark Sanchez

Inspector

Mr. Sanchez is highly skilled at performing construction oversight of sanitary sewer systems; pump stations; water infrastructure; wastewater treatment plants; and roadway construction. He excels at interpreting plans and specifications, performing on-site inspections and providing final completion punch-list and warranty walkthroughs. He has sound knowledge of all phases of construction, from award of contract through project completion. Mr. Sanchez has maintained an excellent working relationship with project owners through his meticulous documentation and effective communication skills.

### RELEVANT EXPERIENCE

#### *Transmission Mains/ Pipes*

**Relocation of 30-inch Eastern Transmission Line, Moulton Niguel Water District and City of San Juan Capistrano, CA:** Inspector for the relocation of a 30-inch concrete mortar lined cement water transmission main. A portion of the project included micro tunneling approximately 125 linear feet under Oso Creek and the excavation of a bore and receiving pit.

**On-Call Construction Observation Services, Irvine Ranch Water District, Irvine, CA:** A contract inspector for several projects with the District including the installation of new water mains (up to 12-inch), lowering of water mains, service connections, house line connections, fire services, water quality testing, street resurfacing, pulling permits, and managing punch list items to completion.

**Vista Del Verde Village IV Improvement, Yorba Linda Water District, Yorba Linda, CA:** Inspector for this project involving the construction of 4,000 linear feet of 12-inch C900 PVC water main, 36-inch CML&C water main pipe, and 4,500 linear feet of 36-inch Zone 4 CML&C steel pipe to serve a new planned community development. Project duties included involvement with all shutdowns and tie-ins to all existing water mains.

**Lakeview Avenue Water Pipeline Toll Bros. 36 Inch Zone 4 Domestic Water Transmission Main, Yorba Linda Water District, CA:** Inspector for the construction of 1,300 linear feet of 36-inch Zone 4 CML&C steel pipe. Project duties included involvement with all shutdowns and tie-ins to all existing water mains.

#### *Sewers*

**Verdugo Avenue Sanitary Sewer Improvement, City of Burbank, CA:** Inspector for the construction of a sanitary sewer main and appurtenances, storm drain improvements, and permanent street and alley resurfacing. This project also involved ties into live sewers, requiring temporary sewer bypass during construction; pumps, hoses, and other equipment were necessary to divert the flow, including special equipment and devices including Cal-OSHA-acceptable lifeline harness system, breathing apparatus, and gas detection devices capable of identifying presence and levels of toxic gases. Other aspects of this project included micro tunneling and jack and bore.

**Colorado Ocean Relief Project, City of Santa Monica, CA:** Inspector for the Colorado and Ocean Avenue sewer system improvements which involved micro tunneling under the I-10 Freeway to install two 42-inch diameter high density polyethylene sewer lines. Project also included the fabrication of sewer manhole

#### Education

Chaffey Junior College

#### Registrations/Certifications

Metrolink Safety Trained

ACI Concrete field Testing Technician  
#00163572

10-Hour Construction OSHA Safety

Heavy Equipment- Teamster Union  
Training

#### Years of Experience

Entered the profession in 2000.

structures, enlargement of existing sewer manholes, upgrading existing water lines, and installation of water service lines.

**Headlands Development Project, South Coast Water District, Dana Point, CA:** Inspector for the installation of 8-inch and 12-inch water main and appurtenances including water services, fire hydrants, air vacs, disinfection of pipeline and hydrostatic pressure testing; 8-inch sewer main and appurtenances including sewer services, cleanouts, manholes and air pressure testing.

**Capital Improvement Replacements, Sanitary Sewer Improvements and Vista Lorna Sewer Realignment, Yorba Linda Water District, CA:** Inspector for the construction of upsizing existing 8-inch sewer to 10- to 12-inch size VCP and the construction of manholes for new sewer lines and tie-ins to existing sewer. Project duties included air testing and creating a final video at the end of project.

#### *Developments*

**University Park Project, Hover Development Company, Inc., Palm Desert, CA:** Inspector for the construction of a 250-acre development site of a combination of residential and commercial tracts. Project involved the mass grading of over 1.5 million cubic yards of dirt; the construction of new roadways, sewer and domestic water services, and storm drain systems; and the installation of dry utility conduits. This project also included the construction of retaining walls and all aspects of landscaping construction, including two new parks.

**Improvement Plans for Tentative Tract Map 16549 Lakeview Avenue - (Station 17+00 to 63+00), Yorba Linda Water District, CA, 2005 -** Construction Observer during the construction of approximately 4,600 linear feet of 8-inch VCP sewer pipe. Project involved construction of manholes for new sewer lines and tie-ins to existing sewer. Project duties included air testing and creating final video at end of project.

**Capital Street Water Improvements for Housing Developments, Lambert Ranch Phase 1 and 2 Portola Parkway:** Inspector for this project consisting of installation of sanitary sewer, recycled water and domestic water with tie-ins to existing utilities on Portola Parkway. Currently finishing up two PRV stations for Lambert Ranch Phase 1 and 2 on Portola Springs which involved 16" CMLC transmission line BFV re-locations and construction of pre-cast PRV vaults with piping and cla-val installation.

#### *Treatment Plants*

**Arsenic Treatment Plant Well 27, City of Lakewood, CA:** Inspector for the Arsenic Treatment Plant consisting of three 22-foot long by 7-foot diameter horizontal filter vessels and a Chemical Treatment System which will be constructed within concrete containment bays complete with chemical dosing pumps and piping equipment. This system will monitor chlorine residual, turbidity and pH. The treatment plant will have a bolted steel backwash holding tank with a recycling pumping system. The system will operate automatically and utilize its own effluent for backwash water. The filter final effluent will be conveyed to an on-site potable storage tank.

#### *Well Drilling and Equipping*

**Recycled Water Well 78, Irvine Ranch Water District, CA:** Inspector for this project that involved underground cast in place vault construction with piping to existing IRWD recycled water connections to move water to be used for recycled water uses minimizing water contamination stemmed by El Toro Air Base. This involved coordinating water shut downs with IRWD. The United States Navy was involved in funding the project. This project was a High Profile job due to the location. IRWD had minimal complaints from the public during construction.

**Recycled Water Well 107, Irvine Ranch Water District, CA:** Inspector for an above ground Well Facility that will be used for potable water in Irvine. Worked closely with the District's groundwater geologists consultants to document all drilling procedures. Also responsible for coordinating water shut downs with IRWD.

#### *Reservoirs*

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**Cooks Reservoir Replacement, City of San Juan Capistrano, CA:** Inspector for the demolition of an existing 0.3 MG reservoir and pump station. Project also involved the construction of a new 1.17 MG cast-in-place concrete reservoir; installation of an altitude valve vault, ancillary piping, and valves; excavation; shoring, rough grading, and stockpiling of graded material; finished grading; landscaping; surface improvements; electrical site work; and miscellaneous site improvements.

**12 MG Ogden Reservoir Site Improvements, City of San Bernardino, CA:** Inspector for site improvements to accommodate the future construction of a 12.0 MG partially buried reservoir and booster pump station at the Ogden site for the City of San Bernardino Municipal Water Department. Project included rough and fine grading, water piping, storm drainage system, on-site percolation basin, and fencing.

**12 MG Medical Center (Scott Labs) Reservoir Construction, City of San Bernardino, CA:** Inspector for the construction of a 12 MG concrete reservoir with site provisions for a future 12.0 MG reservoir for the City of San Bernardino Municipal Water Department. Appurtenant elements included site grading, water piping, storm drainage system, access, telemetry, lighting, landscaping, and security measures.

**925-2A 6MG Pre-stressed Concrete Reservoir, City of Ontario, CA:** Inspector for over-excavation and re-compaction to build concrete reinforced reservoir pad. Observation included underground perforated pipe installation for leak drainage, placement of rebar for concrete pad, and seismic cable installation.

**1010-2B 6MG Pre-stressed Reservoir, City of Ontario, Ontario, CA:** Inspector during the placement of the reservoir wall. Project duties included inspection of all rebar, column, pedestals, and concrete pours. Project involved striping of all walls and columns, installation of new concrete mortar lined piping, and installation of storm drain structures.

#### *Street Improvements/Roadway*

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**Bid Schedule No. 1307: Railroad and Street Improvements Project, City of Burbank, Burbank, CA:** Inspector for this ARRA project that involves road improvements and widening for northbound traffic on Buena Vista Street from Winona Avenue to the I-5 NB ramps; road improvements and new catch basins on Buena Vista Street between N. San Fernando Boulevard and the I-5 NB ramps; a new pre-signal on Buena Vista Street for SB traffic approaching the railroad tracks; permanent closure of N. San Fernando Boulevard between Buena Vista Street and Winona Avenue; road improvements and widening of Winona Avenue between Buena Vista Street and N. San Fernando Boulevard; road improvements and new catch basin on Winona Avenue between Buena Vista Street and N. San Fernando Boulevard; modification of the existing traffic signal at the intersection of Buena Vista Street and Winona Avenue; and new signs and stripes on Buena Vista Street and Winona Avenue.

**Buena Vista North Project, City of Burbank, CA:** Inspector for the construction of sidewalk, pedestrian ramps, curb and gutter improvements, asphalt concrete pavement and asphalt concrete hot mix overlay, minor utility adjustments, and signs and striping improvements at Buena Vista Street from Vanowen Street to San Fernando Boulevard, excluding the intersection of Buena Vista Street and Empire Avenue. Project involved the removal of concrete curb, concrete gutter, and concrete sidewalk; the removal and reconstruction of pedestrian ramps with cast in-place truncated domes and PCC driveway apron; furnishment and installation of surface applied truncated domes and water meter box; construction of

PCC curb, PCC gutter, PCC sidewalk, asphalt concrete (AC) leveling course, and asphalt-rubber hot mix (ARHM) pavement; cold milling of existing AC pavement; of manhole and cover to finished grade, water valve and cover to finished grade, and gas valve and cover to finished grade; construction surveying; environmental compliance (NPDES); and Traffic Control.

*Miscellaneous*

**Peacock Hills Service Area Pressure Regulating Station, City of Oceanside, CA:** Inspector for the expansion, upgrade, and installation of a new pressure regulating station facility. This project involved the construction of an aboveground concrete masonry unit building on a below-ground reinforced concrete slab and wall structure to house pipe lines, telemetry (SCADA) equipment, electrical and instrumentation equipment, CLA-VAL regulating valves, butterfly and gate valves, air and vacuum valves, manual air release valves, bridge and jib cranes, and other appurtenances. The pipeline work included the installation and testing of CML&C steel pipe and fabricated steel fittings and connections to the existing City of Oceanside facilities. The project also included upgrading the existing pressure regulating vault and converting it into a meter vault facility including magnetic flow meters, valves, electrical upgrades, and roof and wall retrofits. Other items of work included by-pass piping and appurtenances, grading, trench and structure excavation and backfill, site improvements, and excavation safety measures.

**Natural Treatment System Basin Construction for PA 40 in Irvine, CA:** Inspector for the construction of basin channeling for storm water runoff from streets and newly constructed town homes near the basin. The basin acts as a retention basin by planting native and non-native seed mixture to remove nitrates and other harmful water quality issues from storm water then allowing water to be released back to the ocean. The project included construction of water quality sample stations at three different locations for IRWD Water Quality to perform testing on water run-off. The project also involved constructing a construction access road with concrete decorative ramps to enter the basin for maintenance purposes and the site beautification near the school and shopping centers on Jeffrey and Trabuco.

## Billing Rates

Staff	Regular Time	Overtime Hourly Rates		
	Hourly Rate <sup>1</sup>	Mon – Fri	Saturday	Sunday/Holiday
Principal Construction Manager	\$165	\$165	\$165	\$165
Sr. Construction Manager	\$150	\$150	\$150	\$150
Public Works Inspector (Prevailing Wage)	\$ 95	\$ 95	\$ 95	\$ 95

<sup>1</sup> The above hourly rates include all items necessary to perform the proposed scope of work including: Distribution of fringe benefits to inspection staff are covered by the current Prevailing Wage Determination. The billing rates above include inspection documents, tools and equipment, a vehicle (and all associated costs), and a cell phone.

**Other Direct Costs:** Reimbursement of extra-ordinary non-salary costs that are directly attributable to the project such as oversized and/or high volume color reproduction costs, site facility hard phone line and/or internet service charges, travel costs to remote fabrication yards / batch plants (in excess of 50 miles one-way), overnight postage / couriers, etc., are billed at actual cost plus 5 percent to cover overhead and administration. Travel charges to a casting/ fabrication yard or batch plant will include the hourly billing rate plus travel expenses as listed in the Caltrans Travel Guide (State rates).

**Fees for expert witness services:** Charged at \$300.00 per hour with a 4-hour minimum per day.

**Fees for subconsultant services:** Billed at actual cost plus 5 percent to cover overhead and administration.

**Payment Terms:** A late payment finance charge at a rate of 12 percent per annum will be applied to any unpaid balance commencing 60 days after the date of original invoice. This rate schedule is effective through December 31, 2012. Should the Contract duration be extended beyond October 31, 2012, rate will be subject to annual and/or periodic revisions as necessary to accommodate inflationary trends, salary adjustments and the general costs of business, as mutually agreeable to the parties and approved via Contract amendment prior to implementing higher rates.

**Exclusions to Scope & Fee:** The following items are specifically excluded:

- Legal advice
- Design engineering
- Temporary field office facilities, equipment, furniture and/or utilities
- Building Code Inspection, Soils and/or materials deputy inspection and/or testing
- Specialized Software (other than MS Office Suite) & MS Project



September 24, 2012 <sup>PS</sup> <sup>RNS</sup>  
Prepared by: R. Joshi/M. Hoolihan <sup>MH</sup>  
Submitted by: K. Burton <sup>KB</sup>  
Approved by: Paul Cook <sup>PC</sup>

## ACTION CALENDAR

### POTABLE WATER SYSTEM HYDRAULIC MODEL CONSULTANT SELECTION

#### SUMMARY:

The 2012 Potable Water System Hydraulic Model project will provide an important tool to more efficiently plan, manage, and operate the District's potable water distribution system. Staff evaluated proposals submitted by six consultants for developing the hydraulic model and recommends the Board:

- Authorize a budget increase to the FY 2012-13 Capital Budget for Project 11384 by \$66,000, from \$401,500 to \$467,500;
- Approve an Expenditure Authorization in the amount of \$467,500 for Project 11384; and
- Authorize the General Manager to execute a Professional Services Agreement with AKM Consulting Engineers in the amount of \$359,690 for development of the hydraulic model.

#### BACKGROUND:

In the late 1990's the District developed a static hydraulic computer model. This model was an effective tool, but developed primarily to aid with preparation of the 1999/2000 Water Resources Master Plan.

Current technology allows for Extended Period Simulation (EPS) models to be developed and calibrated. The proposed project consists of developing a District-wide EPS potable water system hydraulic model. Major components of the project include a calibrated, extended period simulation, existing system model and an "ultimate" (in 2035) system model.

The hydraulic model will be used to more efficiently plan, manage, and operate the District's water infrastructure. Some of the uses include:

- Evaluating existing hydraulic capabilities of the District's distribution system and assist in optimizing operations;
- Identifying opportunities for energy savings through operational adjustments;
- Providing solutions to operational challenges high and low pressures;
- Optimizing water supply project infrastructure delivering new water supply projects to the distribution system; and
- Analyzing impacts of future development (or redevelopment) on regional facilities.

Consultant Selection:

In June 2012, a Request for Proposal was issued to 12 consulting firms: AKM Consulting Engineers (AKM), Brown & Caldwell, CDM Smith, DCSE, Dudek Consultants, HDR, Inc., ID Modeling, Kennedy/Jenks Consultants, RBF Consulting, Stantec, Tetra Tech, and MWH Americas, Inc. Six proposals were received from the following consultants/teams: AKM, DCSE, Dudek Consultants, ID Modeling/Stantec Team (IDM/Stantec), RBF Consulting, and MWH. The proposals were reviewed and ranked based on project understanding, technical approach, project team qualifications and experience, with the intent of interviewing the top two or three consultants. The cost proposals were submitted separately and not considered in the initial interview selection.

Based on the proposal evaluations, AKM and IDM/Stantec were shortlisted for interviews. Both teams were given an opportunity to present its approach for model development, calibration of the model, working with and training of District staff on using the model. Based on the evaluation, staff recommends that the project be awarded to AKM. Below are specific factors for selecting the AKM team:

- *Demonstrated understanding of the District's system and the project:* AKM demonstrated that they spent the time necessary during the proposal preparation period to develop a high degree of understanding of the District's potable water distribution system as shown by the hydraulic schematic of the system that was prepared for the proposal preparation and referenced for the interview;
- *Preparation of field monitoring and data acquisition:* AKM prepared a detailed field monitoring plan, including equipment rental for 51 pressure sites, 25 largest water users, and 12 flow monitoring locations. The proposal also included adequate time to accomplish the field work with minimal assistance by District staff;
- *Diurnal curve development:* The field monitoring effort supported the proposal to develop diurnal curves based on both land use types and pressure zones. While other teams proposed updating diurnal curves based on pressure zones, similar to techniques used by staff in the past, AKM also proposed isolating specific land use types to develop diurnal curves. Staff anticipates this effort will yield a more accurate calibrated model. Additionally, this work will provide new and more refined diurnal curves for updating the Water Resources Master Plan; and
- *Collaboration, training, and data collection:* The approach to collaboration, training, and data collection fit well with the needs and culture of the District and demonstrated how this can be accomplished with minimal impacts to the project schedule or budget. AKM suggested using training methods they currently employ in training its staff. Additionally, they demonstrated an understanding of the level of effort and interactions required to effectively train District staff.

The final consultant selection matrix is attached as Exhibit "A". The scope of work is attached as Exhibit "B."

AKM's proposal, for the amount of \$359,690, is approximately \$120,000 higher than the IDM/Stantec proposal in the amount of \$239,900. Staff believes that the demonstrated understanding of the appropriate level of effort and value-added components in AKM's proposal validate the higher cost:

- *Field monitoring and diurnal curve development (+\$59,000)*: AKM's analysis resulted in approximately 50 field monitoring locations and one month of staff time. AKM's proposal specifically assigned a former water system operator to manage all of the field work and installation. In comparison, IDM/Stantec proposed eight field monitoring locations and less than two weeks of staff time. IDM/Stantec stated in the interview that additional field monitoring requirements would likely result in a contract variance.
- *Data collection, control settings, training, and collaboration (+\$45,000)*: During the interview process, AKM articulated a more interactive approach to training and collaboration. Although AKM's approach will take more time in one-on-one interactions with both Engineering and Operations staff, this investment of time and effort is required for the work envisioned.

**FISCAL IMPACTS:**

Project 11384 (1095) is included in the FY 2012-13 Capital Budget. A budget increase and Expenditure Authorization are requested as shown in the table below and in Exhibit "C":

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
11384 (1095)	\$401,500	\$66,000	\$467,500	\$0	\$467,500	\$467,500

**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 15262 which provides exemption for planning studies.

**COMMITTEE STATUS:**

This item was reviewed at the Engineering and Operations Committee on September 18, 2012.

**RECOMMENDATION:**

THAT THE BOARD AUTHORIZE A BUDGET INCREASE TO THE FY 2012-13 CAPITAL BUDGET FOR PROJECT 11384 (1095) BY \$66,000, FROM \$401,500 TO \$467,500; APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$467,500 FOR PROJECT 11384 (1095); AND AUTHORIZE THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH AKM CONSULTING ENGINEERS IN THE AMOUNT OF \$359,690 FOR DEVELOPMENT OF THE POTABLE WATER SYSTEM HYDRAULIC MODEL, PROJECT 11384 (1095).

**LIST OF EXHIBITS:**

- Exhibit "A" – Consultant Selection Matrix
- Exhibit "B" – Scope of Work
- Exhibit "C" – Expenditure Authorization

# EXHIBIT "A"

## CONSULTANT EVALUATION MATRIX POTABLE WATER SYSTEM HYDRAULIC MODEL

Item	Description	Weights	AKM CONSULTING	DCSE	DUDEK	ID MODELING/ STANTEC	MWH	RBF CONSULTING					
<b>A</b>	<b>TECHNICAL APPROACH</b>	<b>50%</b>											
1	Overall Project Understanding	15%	1	3	4	2	5	5					
2	Model Development	15%	1	3	5	2	5	4					
3	Calibration Methodology	25%	2	5	4	1	5	3					
4	Analysis and Model Runs	15%	2	5	5	3	4	1					
5	Level of Effort	15%	1	3	5	2	5	4					
6	Partnering/Training	15%	2	3	5	1	4	5					
	<b>Weighted Score (Technical Approach)</b>		<b>1.55</b>	<b>3.80</b>	<b>4.90</b>	<b>1.75</b>	<b>5.25</b>	<b>3.75</b>					
<b>B</b>	<b>QUALIFICATIONS AND EXPERIENCE</b>	<b>50%</b>											
1	Project Manager (Name & Credentials)	30%	1 Zeki Kayiran, P.E. MS, 38 yrs Exp	2 Masoud Houseni, PhD MS, 21 yrs Exp	3 Bob Ohlund, P.E. BS, 26 yrs Exp	4 Jerry Edwards, P.E. MS, 25 yrs Exp	5 G. Krishnamurthy, P.E. MS, 7 Yrs	6 Kevin Gustorf, P.E. MS, 13 yrs Exp					
2	Project Engineer	30%	1 Diann Fay, PE MS, 16 yrs	3 Haritha Vendra, EIT MS, 11 yrs	4 Rusa Bergholz, PE BS, 16 yrs	5 Kevin Trott, PE MS, 6 yrs	6 Jinny Huang, PE MS, 7 Yrs	2 Barkev Meserlian, PE MS, 8 yrs					
3	Project Team Experience	30%	1	5	3	2	5	6					
3	Firm's Relevant Experience	10%	2	6	5	1	3	4					
	<b>Weighted Score (Experience)</b>		<b>1.10</b>	<b>3.60</b>	<b>3.50</b>	<b>3.40</b>	<b>5.10</b>	<b>4.60</b>					
	<b>COMBINED WEIGHTED SCORE</b>		<b>1.33</b>	<b>3.70</b>	<b>4.20</b>	<b>2.68</b>	<b>5.18</b>	<b>4.16</b>					
	<b>Ranking of Consultants</b>		<b>1</b>	<b>3</b>	<b>5</b>	<b>2</b>	<b>6</b>	<b>4</b>					
<b>C</b>	<b>SCOPE OF WORK</b>												
TASK		Task Hours	FEE	Task Hours	FEE	Task Hours	FEE	Task Hours	FEE	Task Hours	FEE	Task Hours	FEE
1	Project Management/ Meetings & Coordination	48	\$8,760	150	\$26,850	112	\$20,630	113	\$19,802	344	\$54,224	152	\$28,622
2	Partnering	48	\$7,200	120	\$18,000	32	\$4,960	23	\$3,574	200	\$29,600	124	\$18,072
3	Data Collection & Review	72	\$10,720	180	\$28,350	82	\$9,900	164	\$29,694	272	\$34,848	315	\$41,284
4	Develop Hydraulic Model of Existing System	802	\$83,330	540	\$22,200	268	\$42,480	342	\$40,464	530	\$68,610	164	\$19,304
5	Allocation of System Demands	280	\$37,000	244	\$28,240	146	\$22,820	46	\$6,872	394	\$52,598	120	\$18,100
6	Model Calibration	408	\$97,080	300	\$35,200	238	\$36,080	327	\$45,727	914	\$118,414	212	\$33,764
7	Existing System Analysis	176	\$25,040	116	\$16,560	44	\$7,428	143	\$20,058	324	\$43,612	108	\$13,792
8	Develop Hydraulic Model of Future System	72	\$10,720	180	\$17,600	146	\$23,660	50	\$7,954	296	\$37,857	176	\$22,936
9	Future System Analysis	120	\$17,240	100	\$14,320	50	\$8,696	102	\$15,664	308	\$41,776	88	\$11,432
10	Analysis of Emergency Supply Conditions	88	\$13,640	108	\$13,880	66	\$11,256	117	\$16,306	208	\$30,357	88	\$11,432
11	Water Resources Master Plan Update	136	\$18,960	128	\$19,600	150	\$24,832	130	\$20,789	168	\$22,521	136	\$18,144
12	Training/Deliverables	200	\$30,000	80	\$9,485	168	\$26,344	92	\$13,088	200	\$40,640	116	\$16,172
	<b>TOTAL ENGINEERING SERVICES, FEE (Does Not Include Optional Items)</b>	<b>2,260</b>	<b>\$368,690</b>	<b>2,238</b>	<b>\$243,285</b>	<b>1,482</b>	<b>\$242,124</b>	<b>1,668</b>	<b>\$239,900</b>	<b>4,188</b>	<b>\$676,760</b>	<b>1,768</b>	<b>\$249,080</b>
	<b>Avg \$/hr</b>		<b>\$160</b>	<b>\$109</b>	<b>\$163</b>	<b>\$144</b>	<b>\$138</b>	<b>\$138</b>	<b>\$138</b>				
<b>D</b>	<b>OTHER</b>												
	<b>Miscellaneous Items</b>												
	Multiplier		2.54	-	-		3.2/3.1		3.03		-		-
	Conflict of Interest		No	No	No	No	-	No	No	No	No	No	No
	Joint Venture		No	KEC Engineers, Inc	No	No	Yes	No	No	No	No	No	No
	Addendum Acknowledgement		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Scope of Work Exclusions		No	No	No	No	No	No	No	No	No	No	Yes
	Exceptions taken to IRWD Std. Contract		-	No	No	No	-	No	No	No	No	No	Yes
	Insurance (Professional & General Liability)		Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided	Yes, Certs Provided



# EXHIBIT "B"



**AKM Consulting Engineers**

553 Wald  
Irvine, CA 92618

Telephone: 949.753.7333

Facsimile: 949.753.7320

Water  
Resources

Infrastructure

Construction  
Management

August 1, 2012

**Irvine Ranch Water District**  
Engineering Department  
15600 Sand Canyon Avenue  
Irvine, California 92618

Attention: Mr. Michael J. Hoolihan, P.E., Principal Engineer  
Master Planning and Technical Services

**Subject: Proposal for Potable Water System Hydraulic Model**

Dear Mr. Hoolihan:

In response to your request for proposal dated June 27, 2012, and Addendum No. 1 (attached) dated July 19, 2012, AKM Consulting Engineers is pleased to submit this proposal to provide engineering services for the development of a Potable Water System Hydraulic Model. As requested, our proposed fee and schedule of hourly rates are submitted in a separate sealed envelope.

Based upon our review of the scope of work, the July 11, 2012 pre-proposal meeting, discussions with Irvine Ranch Water District (IRWD) staff, and our experience with similar projects, we have assembled a Project Team with extensive experience and expertise in preparing well calibrated hydraulic models to undertake this project and complete it within a reasonable schedule. The proposed project team will be under the direction of **Mr. Zeki Kayiran, P.E.** who has over 40 years of water resources engineering and management expertise. He has been responsible for the completion of thirty (30) water and recycled water master plans. **Ms. Diann Pay, P.E.**, who has 16 years of water resources engineering experience with AKM, and has been responsible for successful completion of sixteen (16) water and five (5) recycled water master plans will be the Project Engineer. **Mr. John Loague, P.E.**, an AKM Principal with 28 years of responsible water resources engineering experience, will serve as QA/QC Manager. **Mr. Jon Nitta, P.E.**, an Associate with AKM for eleven (11) years, and **Ms. Serpil Kara, E.I.T.**, an Associate Engineer with AKM for eight (8) years, will be responsible for hydraulic modeling and analysis. Mr. Nitta has extensive working knowledge of the H2ONET, H2OMAP, and InfoWater software, having prepared and updated the water system models for the Cities of Manhattan Beach, Port Hueneme, Glendora, Inglewood, El Segundo, Seal Beach, San Clemente, Whittier and El Segundo. **Ms. Kara** has extensive experience in hydraulic modeling and analysis of water, recycled water and wastewater systems. She has prepared and updated the water/recycled system models for the Cities of Monterey Park, Ontario, West Basin Municipal Water District, Whittier, Arcadia, San Clemente, Corona, and San Juan Capistrano. **Mr. Steve Patterson**, a Construction Manager/Inspector with AKM for four (4) years, has over 20 years of water, recycled water, and wastewater infrastructure construction, operation, maintenance and design experience. He has extensive experience in the water utilities field and numerous

AKM Proposal No. 12-1075

certifications, training and knowledge pertaining to the safe and reliable construction, operation, and maintenance of water infrastructure. Mr. Patterson will be responsible for field data collection and fire flow testing. He will work with IRWD staff to get monitoring equipment installed and conduct hydrant flow tests.

This project team has been responsible for the successful development of numerous comprehensive **calibrated domestic water and recycled water system models and master plans** for a number of municipal and special district agencies centered in Southern California. These include the Cities of Arcadia (2001, 2008 Update), Whittier (2008), Glendora (1994, 2004 Update), Inglewood (2004), El Segundo (2005), Manhattan Beach (2010), San Clemente (1994, 2006 Update; Recycled Water 1995, 2007 Update), Seal Beach (2003, 2012 Update), San Juan Capistrano (1999, 2004 Update; Non-domestic Water 2000, 2006 Update), Corona (Water 2005 and Recycled Water 2010), Ontario (2012; Recycled Water Model 2012), Port Hueneme (2011), and Monterey Park (2012), as well as South Montebello Irrigation District, West Basin Municipal Water District (2009), Montebello Land and Water Company, and the former Tri-Cities Municipal Water District. AKM maintains the models for the Cities of El Segundo, San Clemente, Seal Beach, Corona, Ontario, Port Hueneme, South Montebello Irrigation District, and West Basin Municipal Water District, and conducts as needed special studies. The project team has also been responsible for evaluating existing pump stations, wells, reservoirs, treatment facilities, and SCADA systems; preparing preliminary design reports; final plans, specifications, estimates; and construction support services for numerous booster pumping facilities, wells, reservoirs, and treatment facilities.

The members of our project team have personally served as the engineer-in-responsible-charge for the development of these master plans. Combined as a group, we offer the Irvine Ranch Water District a superb team that will provide full efficiency and attention to all elements of project detail as well as providing technical and managerial depth ensuring the successful development of a well calibrated water model, and a planning study to support the design of IRWD's Potable Water System Hydraulic Model.

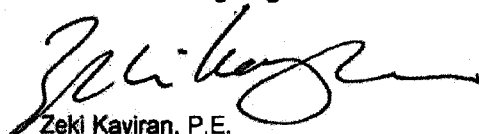
There are no conflicts of interest prohibited by law that would prevent AKM Consulting Engineers from performing this work for the Irvine Ranch Water District.

AKM Consulting Engineers does not propose any modifications to the standard terms and conditions of IRWD's professional services agreement.

We appreciate the opportunity to submit our proposal and look forward to being of service to Irvine Ranch Water District on this most important project. Should you have any questions regarding the contents of our proposal or require any additional information, please do not hesitate to contact the undersigned or Ms. Diann Pay.

Very truly yours,

**AKM Consulting Engineers**

  
Zeki Kayiran, P.E.  
Principal







**IRVINE RANCH WATER DISTRICT**

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

July 19, 2012

**Subject: Addendum No. 1  
Request for Proposals – Potable Water System Hydraulic Model**

Notice is hereby given to proposing consultants that the Request for Proposals (RFP) for Potable Water System Hydraulic Model dated June 27, 2012 has been modified. The following changes, additions, or deletions shall be made to the RFP as noted and shall take precedence over the original RFP; all other provisions remain the same.

**I. PROPOSAL DUE DATE**

Proposals will be accepted until **4:00 PM Wednesday, August 1, 2012** at the Engineering Department of the Irvine Ranch Water District, 15600 Sand Canyon Avenue, Irvine, CA 92618 (Mailing address PO Box 57000, Irvine, CA 92619-7000). Proposals should be limited to twenty pages or less and an appendix. Six copies of your technical proposal and one copy of the separately sealed fee proposal are requested. Also include a compiled electronic copy of your proposal in pdf format.

--- END OF ADDENDUM NO.1 ---

Yours truly,

Michael J. Hoolihan, P.E.  
Principal Engineer  
Master Planning and Technical Services

Consultants shall acknowledge receipt of this Addendum No. 1 in the space below and shall include this page within the Proposal.

I have received one page of Addendum No. 1 to Request for Proposals – Potable Water System Hydraulic Model.

Name

AKM CONSULTING ENGRS  
Firm/Team

August 1, 2012  
Date

<b><u>Section</u></b>		<b><u>Page</u></b>
1	PROJECT UNDERSTANDING / METHODOLOGY .....	1-1
2	PROJECT TEAM.....	2-1
3	RELATED EXPERIENCE / REFERENCES.....	3-1
	▪ Related Experience.....	3-1
	▪ References.....	3-8
4	PROJECT SCHEDULE .....	4-1
5	BUDGET – STAFF HOUR SCHEDULE..... <i>(Fee Estimate and Schedule of Hourly Rates being submitted separately)</i>	5-1
6	PARTNERING .....	6-1
7	INSURANCE COVERAGE .....	7-1



**1.1 Project Understanding****PREVIOUS STUDIES**

Irvine Ranch Water District's (IRWD) existing Water Resources Master Plan was prepared in 1999. Chapter 8 (Distribution System Analysis) and Chapter 10 (Estimated Capital Costs) was updated in January 2000. It evaluated and developed major water resources planning components, including existing and future land use and demands, future sources of water supply, system storage requirements, and distribution system criteria. The planning period extended to the year 2025. Total water demands were projected to increase from 86,550 acre feet in FY 2000 to 127,490 acre feet by 2025. The service area population was estimated to increase from 259,800 in 2001 to 384,230 in 2025. The Capital Improvement Program totaled \$172 Million for the potable water system and \$109 Million for the non-potable water system.

IRWD's 2010 Urban Water Management Plan was published in June 2011. IRWD's baseline per capita water use is estimated at 213 gallons per capita per day (gpcd) and its individual 2020 target is set at 170 gpcd. The District is participating in the Municipal Water District of Orange County's (MWDOC) Regional Alliance in which the 2020 target is set at 157 gpcd.

**EXISTING SYSTEM**

IRWD's water service area is approximately 181 square miles, encompassing the City of Irvine, and portions of the Cities of Costa Mesa, Lake Forest, Newport Beach, Orange, and Tustin as well as unincorporated areas of Orange County. The existing system provides an average of 77,830 acre-feet (69.5 mgd) to a population of about 338,000 through 99,969 connections (2010 UWMMP). This includes both domestic and recycled water.

IRWD's potable water system consists of 12 main pressure zones and several sub-zones with reduced pressures and 7 coastal pressure zones. The major facilities include the following:

- 1,250 miles of distribution water mains, sizes from 8-inch to 72-inches, and 127 miles of pipe less than 8-inch diameter
- 38 reservoirs
- 39 booster pump stations
- 35 active wells
- 16 imported water supply turnouts
- 170 pressure regulating stations
- 39 emergency interconnections
- 3 treatment plants

The distribution system is made up of primarily asbestos cement pipe (48 percent) and polyvinyl chloride pipe (38 percent). The elevations served range from just over sea level to 1400 feet above mean sea level.

**SOURCE OF SUPPLY**

IRWD's sources of water supply include local groundwater and imported water from Municipal Water District of Orange County (MWDOC).

**Groundwater** - IRWD owns and operates 35 active groundwater wells. Groundwater is drawn from the Orange County Groundwater Basin and the Irvine and Lake Forest sub-basins. The Dyer Road Wellfield has 16 wells with a rated capacity of 80 cfs and an annual

yield of 28,000 acre feet. The Deep Aquifer Treatment System (DATS) has two wells that can produce 8,000 AFY with approximately 98 percent that can be supplied into the potable water system. Treated water from Wells 21 and 22 will provide an additional 7,100 AFY from the Orange County Groundwater Basin when this system is placed into operation shortly.

Orange County Water District (OCWD) manages the Orange County Groundwater Basin production by establishing a Basin Production Percentage (BPP), which is the percent of the member agencies' total demand within the basin that can be pumped from the groundwater basin. There is no legal limit as to how much an agency can pump from the basin, but there is a financial disincentive for pumping above the BPP in the form of Basin Equity Assessment, which brings the total cost of groundwater production to MWDOC's melded rate. The BPP is set uniformly for all producers on an annual basis. There are exemptions from the BPP for production that enhances water quality in the basin, such as the colored water treated at the Deep Aquifer Treatment System and Wells 21 and 22. The BPP was set at 62 percent for fiscal year 2010-2011. Per the OCWD 2010-2011 Engineer's Report, IRWD pumped 46,466 AF. The BPP was set at 65.0 percent for fiscal year 2011-2012.

IRWD also produces water supplies from the Irvine Sub-basin, a sub-basin of the Orange County Groundwater Basin. This groundwater is high in total dissolved solids, color, and nitrates and is therefore primarily used for agricultural and landscape use. A portion of the subbasin contains water of potable quality. IRWD has constructed the Irvine Desalter facility to treat this water for potable use. The desalter has the capacity to produce approximately 5,640 AFY of potable water and 3,900 AFY of nonpotable water (2010 UWMP).

Much less water is produced from the Lake Forest Sub-basin and the water quality is also poor. IRWD is in the process of evaluating future use of wells in this area.

**Imported Water** - Imported water is purchased from the Metropolitan Water District of Southern California (MWD) through MWDOC. IRWD has 16 imported water supply turnouts. Three major transmission pipelines deliver MWD water to IRWD's system, the Allen McColloch Pipeline (AMP), the East Orange County Feeder No. 2 (EOCF2), and Orange County Feeder/Coastal Supply Line. The AMP and EOCF2 are supplied by the Diemer Filtration Plant, while Orange County Feeder is primarily supplied by the Weymouth Filtration Plant. IRWD owns 64.7 cfs capacity in the AMP, 41.4 cfs capacity in the EOCF2, and 18.0 cfs in Orange County Feeder. Currently, imported water supplies meet about 27 percent of IRWD's potable water needs (2010 UWMP).

**Emergency Interconnections** - IRWD has 39 emergency interconnections with multiple neighboring agencies, including El Toro Water District, Mesa Consolidated Water District, Santa Margarita Water District, Trabuco Canyon Water District, East Orange County Water District, and the Cities of Newport Beach, Tustin, and Orange.

**Recycled Water** - IRWD owns and operates two water reclamation plants: The Michelson Water Reclamation Plant (MWRP) and the Los Alisos Water Reclamation Plant (LAWRP). Approximately 23 percent of IRWD's total water demand is met through production of recycled water at these two facilities. Recycled water is primarily used for landscape and agricultural irrigation. The MWRP Phase 2 Expansion Project is currently ongoing. It will expand the plant capacity from 18 mgd to 28 mgd. Construction is anticipated to be completed by early 2013.

#### **WATER DEMANDS**

Per IRWD's 2010 Urban Water Management Plan, IRWD's existing average water demand is approximately 77,830 AFY for a population of 337,876. The service area population is projected to increase to 446,633 by 2035. This is an increase of 32 percent. Water demand is expected to increase to 120,073 AFY by 2035, an increase of 54 percent. An important factor in the diurnal variation of demands is the daytime population which is significantly higher than the residential nighttime population.

**PURPOSE**

The primary goals of this project are as follows:

- Develop two distinct hydraulic models of IRWD's domestic water system:
  1. Existing system model representing current conditions and operations
  2. Ultimate system model representing build-out conditions (2035) and predicted operations
- Calibrate the developed existing model
- Conduct system analyses and identify system deficiencies
- Identify future improvements to the distribution system and supply sources
- Update "Distribution System Analysis" and "Estimated Capital Costs" sections of IRWD's Water Resources Master Plan document
- Work with IRWD staff throughout project so that methodologies and model development are fully understood by IRWD staff. Transfer information related to model development and system analysis to IRWD staff so that they are able to update and run the models in the future.

**1.2 Scope of Work**

A calibrated hydraulic model of a domestic water system is an essential tool for utility systems in analyzing existing system conditions and planning for future expansions. The hydraulic model is ideally based upon the best information available and flexible enough so that it can be updated as changes occur in the system.

AKM's approach to hydraulic modeling and water resources planning assignments involve several basic procedures which ensure that the finished product is used for accomplishing the agency's goals. In order to accomplish this, the project has to be staffed with professionals with expertise in not only water system modeling, but also with deep insight into all elements that make up a water system.

**TASK 1: PROJECT MANAGEMENT / MEETINGS & COORDINATION**

Project management activities to ensure adherence to schedule and budget, communication between AKM and IRWD, and implementation of an effective quality assurance/quality control (QA/QC) program will include the following:

- Bi-weekly status reports (email)
- Monthly meetings as needed, with prepared agendas and follow-up meeting minutes
- Monthly billing statements with list of all tasks, budgets, percent complete, and hours charged to each task
- Updated project schedule in MS Project

**TASK 2: PARTNERING**

In order for the IRWD engineer assigned to the project to become intimately familiar with both model construction and model runs, we propose workshop type meetings at the following model development milestones, which may be supplemented by working with AKM staff on a weekly basis (one day or more) as needed.:

1. **Startup of Model Development:** Review collected data (GIS data, meter data, as-built plans, certified pump test curves, efficiency test results, any other test results conducted by IRWD/consultants, SCADA data, control information) and discuss

steps to be taken to develop the model. Discuss what GIS elements and information is planned to be utilized as the basis of the model geometry.

2. **Completion of Model Geometry:** Discuss how the GIS data was used to create the model geometry. We will show which pipes are included in the model and what data from the GIS was utilized in the model. This includes data such as pipe and node identification numbers, pipe size, pipe material, and pressure zone. We will also show how the node elevations were created from the contour data.
3. **Completion of Existing Model Demand Allocation:** Discuss how the existing meter data was adjusted for unaccounted for water and linked to the GIS and then allocated to the model nodes to create demand datasets. We will also show how the meter data is adjusted to represent existing average day and existing maximum day demands.
4. **Completion of Existing Model Facilities and Controls:** Discuss how the facilities (pump stations, reservoirs, pressure regulating stations, wells, treatment facilities) were implemented in the model. Details of facilities will include the geometry, pump curves, elevations, and controls.
5. **Completion of Calibration:** Discuss calibration process, including data collection, running model, comparing results to field data and adjustments made to calibrate the model.
6. **Completion of Future Model:** Discuss how future developments were modeled, including projected demands and facilities such as Wells 51, 52, and 53; and Baker Filtration Plant.
7. **Completion of Existing and Future Analysis:** Discuss scenarios run and results, including fire flow runs and emergency scenario runs.

At each workshop/meeting, we will discuss the steps to be taken to meet the next model development milestone. The IRWD engineer will have the opportunity to comment and make recommendations or provide preferences for the way the model is set up what information is included in the model. The IRWD engineer will be provided with the model files as of the date of the workshop/meeting, which can then be reviewed at the IRWD office at his/her leisure. This will allow the IRWD engineer more time to determine if he/she has additional questions, comments, or recommendations to make as to the development of the model. Ultimately, the model will be customized for IRWD staff so that it is easy to navigate and user friendly. This will be a great benefit to the IRWD engineer for future modeling assignments and water system analysis.

As an enhancement of the workshop/meetings, the assigned IRWD Engineer can work for a day or more every week with AKM staff so that he/she participates in the development of all elements of the calibrated model and analyses. IRWD Engineer would participate in creation of the geometric model from GIS, preparing data, inputting data into the model, work with AKM staff in the field instrument calibration and installation effort, data collection, analysis of collected data in developing diurnal use curves, model calibration, hydrant flow testing, further refinement of the model, existing system analyses, creation of the ultimate model, and ultimate system analyses.

#### **PHASE I - EXISTING MODEL DEVELOPMENT**

Our general approach to the water model development and analysis assignment is illustrated in the flow chart on the following page.

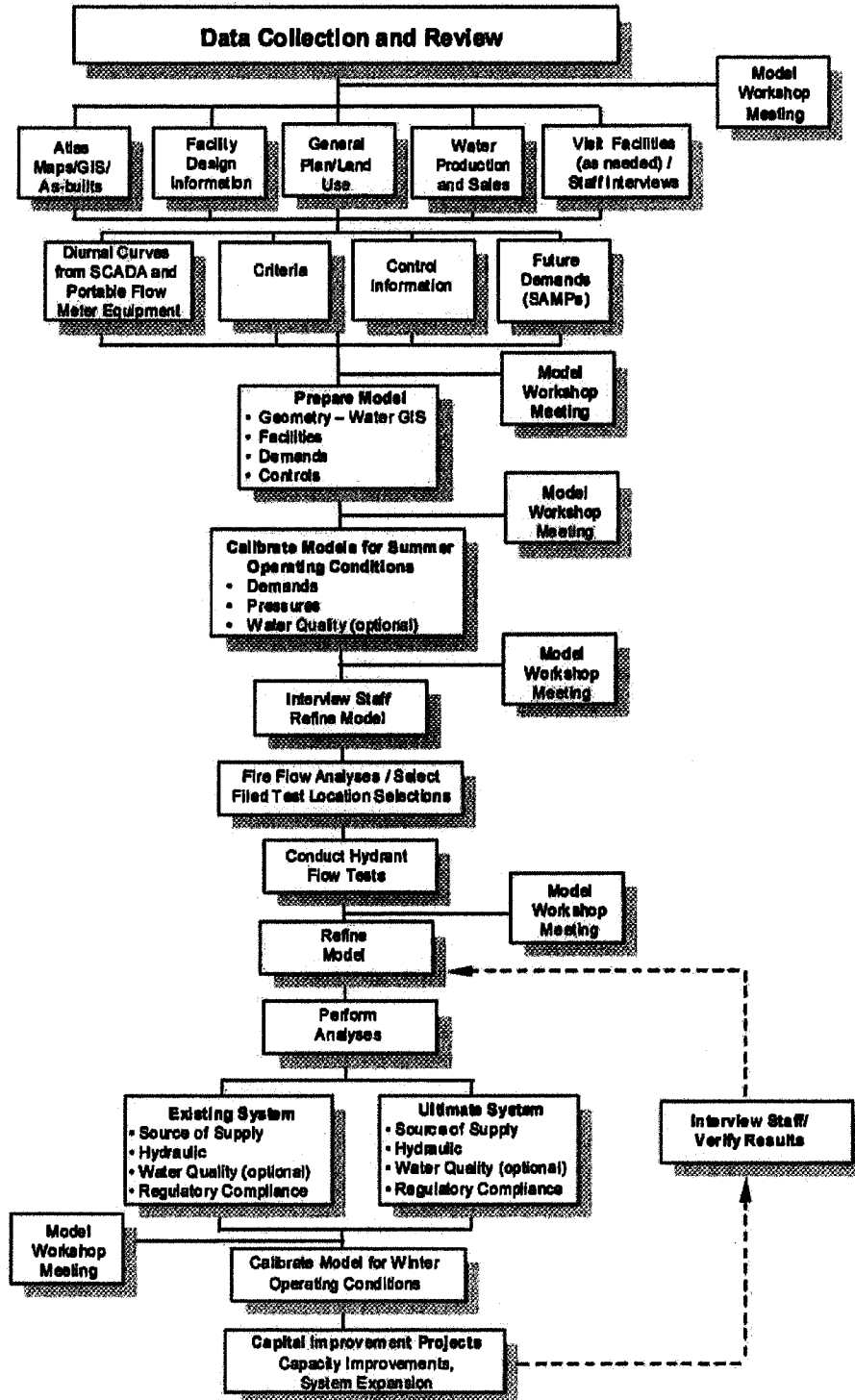
#### **TASK 3: DATA COLLECTION AND REVIEW**

The first step of the project will be to meet with IRWD staff to determine what information is available and can be used in developing the calibrated hydraulic model. At a minimum, the following information is expected to be collected:

- Hydraulic models for SAMPs for future development areas



### Water Model Development & Analysis



- Water system atlas maps
- GIS files / base data - Water GIS, parcels, streets, contours, service boundaries, land use
- Orthophotography
- As-built and design drawings for facilities - treatment facilities, booster pump stations, reservoirs, wells, pressure reducing stations, flow control stations, turnouts
- Pump curves (certified test curves if available) for all booster pump stations and well pumps
- Efficiency tests for all existing booster pumps and well pumps
- Groundwater level information at wells
- Facility control settings for various operating conditions (normal, summer, winter, etc.)
- Production and purchase records including individual turnout data
- Water use records
- Fire flow test results
- SCADA data
- Breakdown of unaccounted for water (system flushing if not metered, and possible other unmetered uses)
- Sub-Area Master Plan reports and hydraulic models
- Population and demand projections

A well organized data collection binder will be compiled and submitted along with the 50 percent model submittal. All collected and verified information for the project will be organized and included in this binder. Any additional information will be added to this binder as the project proceeds. The final product will completely and clearly document the information used to create the model.

#### **TASK 4: DEVELOP HYDRAULIC MODEL OF EXISTING POTABLE WATER SYSTEM**

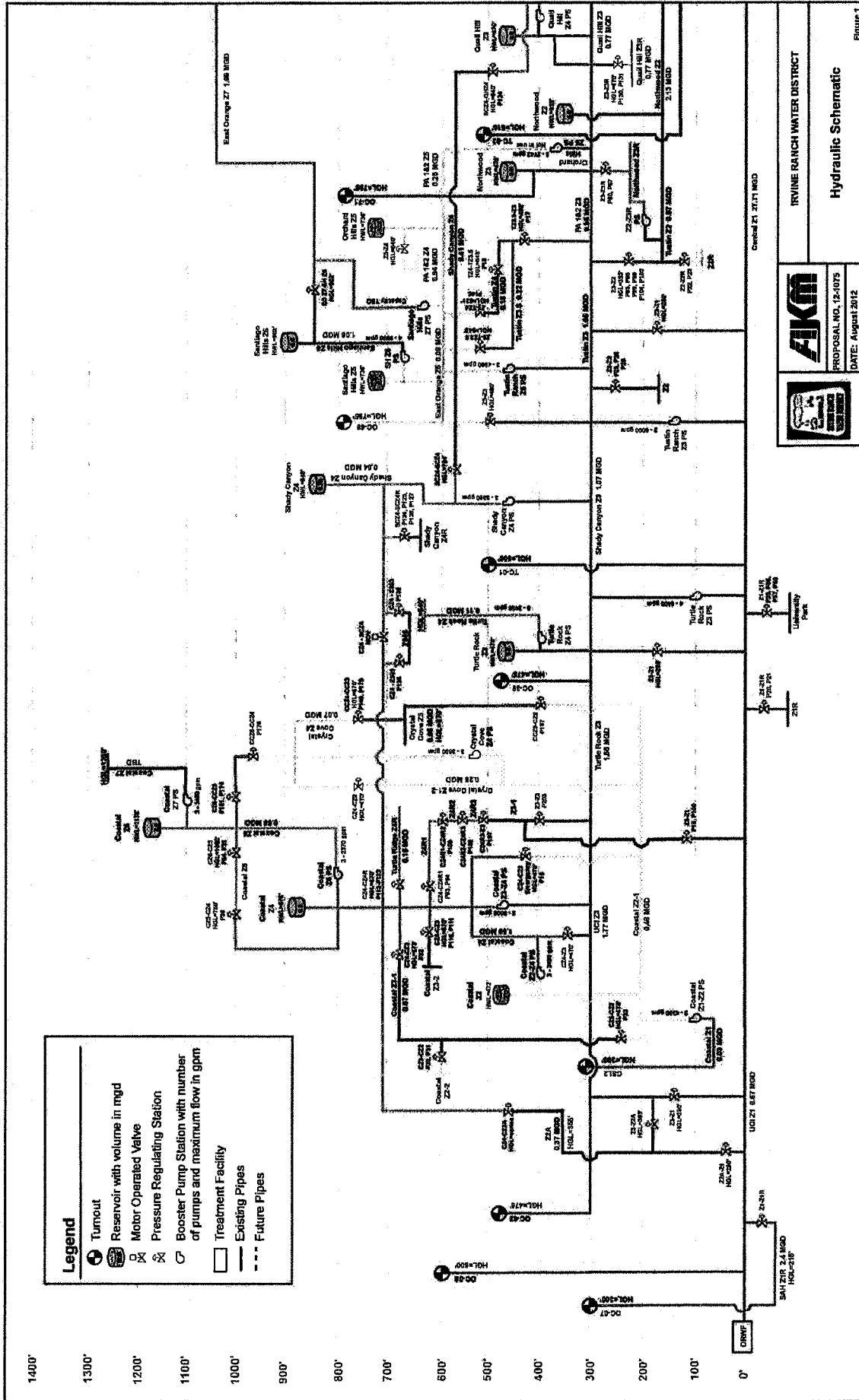
##### **Preparation of Computer Model**

We will use Innowyze's InfoWater software to create a new calibrated water system hydraulic model, based on IRWD's current Water GIS data. Creating the hydraulic model will involve the development of system geometry, demands, supply points, facility information, and controls.

One of the first steps we will take is to develop a hydraulic schematic of IRWD's potable water system based on the data collected in Task 3. This will help us to develop insight into the components of the system, which in turn will aid in preparing the hydraulic model. The schematic will be revised as the project progresses and more is learned about the system through model development, interview with system operators, and field investigations. Figure 1 shows the hydraulic schematic for a portion of IRWD's water system, primarily the coastal zones. This schematic will be expanded to encompass the entire system. It will be included in the project documentation and provided to IRWD in electronic form for future use.





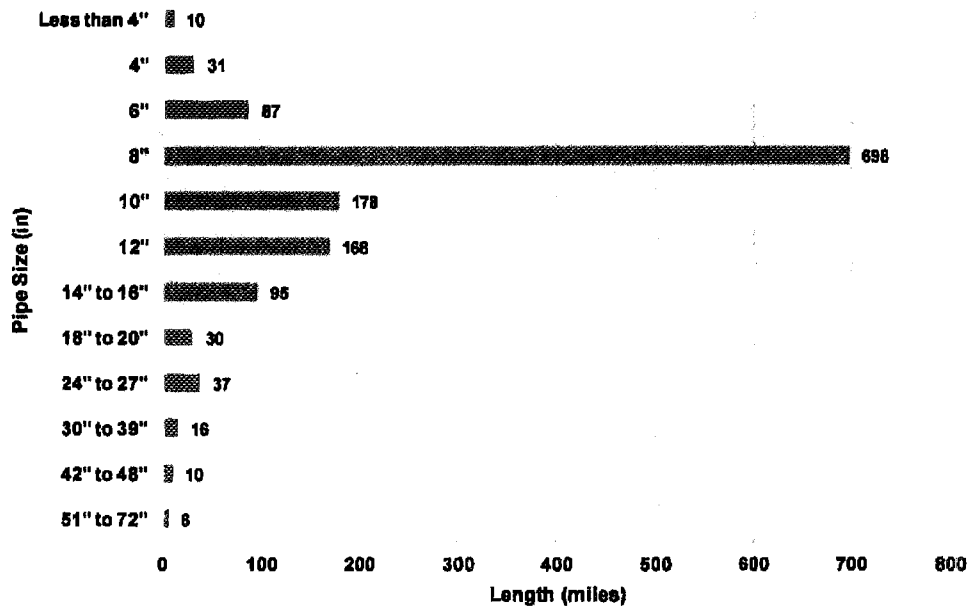


### Geometry

We have reviewed IRWD's existing Water GIS, which will be used as the basis for the geometry of the hydraulic model. The Water GIS consists of approximately 1,367 miles of pipe owned by IRWD and 65 miles of pipe owned by other agencies. As shown on Figure 2, the majority of the pipes are 8-inches in diameter (698 miles) and a small portion of pipes is 4-inches in diameter and smaller (10 miles). It is proposed that the computer model include all IRWD pipes 4-inches and larger (excluding meter connections, fire hydrant laterals, and private lines that do not loop the system), pump stations, wells, reservoirs, interconnections, pressure regulating stations, and treatment facilities. This will be important in developing proper water quality models if desired in the future.

Modeling information for each pipe will include identification numbers, service zone identification, diameter, length, and roughness. Model nodes will be located to represent points of intersection, ends of pipes, fire hydrant lateral locations, changes in diameter or material, and/or locations where supply or demands are applied to the system. Modeling information associated with each node will include identification numbers, service zone identification, demand, fire flow demand requirement and elevation. The elevations will be extracted from IRWD's digital contour information.

**Figure 2**  
IRWD Pipe Length by Size



### Demands and Peaking Factors

We will analyze the existing water system's purchase and production (supply) data for the last 3 years to establish the existing system average day, maximum month, maximum week, and maximum day demands and peaking factors. If peak hour demands are available from SCADA, we will use it, and compare it to peak hour factors we will develop from the diurnal curves that we will create from SCADA data during the study.

If total amount of water used for flushing and any other unmetered uses can be quantified, we will subtract this value from the average purchase and production values when determining the average day demand. Flushing is not an everyday activity and therefore

flushing volumes should not be included as a part of unaccounted for water. If it were to be included, the flushing volume would also be peaked for the maximum month, maximum week, and maximum day scenarios which would technically be an inaccurate estimate of the water used during these periods.

### **Facilities**

We will obtain all facility (well, pump station, reservoir, pressure regulating station, treatment plant, turnout and interconnection) information from IRWD. We will model each facility based upon as-built construction drawings and the existing operating conditions. We will enter pump curves into the model based on the latest field performance tests. At least five points will be input for each pump curve. Most recent water well data will be reviewed to set the ground water levels in the model.

### **Operational Controls and Settings**

We will obtain facility controls and settings from IRWD staff and SCADA information. After an initial review of facility control/settings information, we will interview IRWD operations staff for further insight into the operation of the system and to discuss any operational problems that the system may experience. We will also discuss the logistics of serving the system with groundwater only, at least with AMP and EOCF2 turnouts closed. Since the source of water for OCF is different, its turnouts can be operational in testing an emergency operation scenario with the main imported water supply out.

If operational controls and settings change during different times of the year, we will set up separate control sets in the model to reflect the various operational conditions. If the wells are operated to reduce the electric power costs, we will model the wells on time of use schedules per review of the SCADA data and information from IRWD staff.

## **TASK 5: ALLOCATION OF SYSTEM DEMANDS**

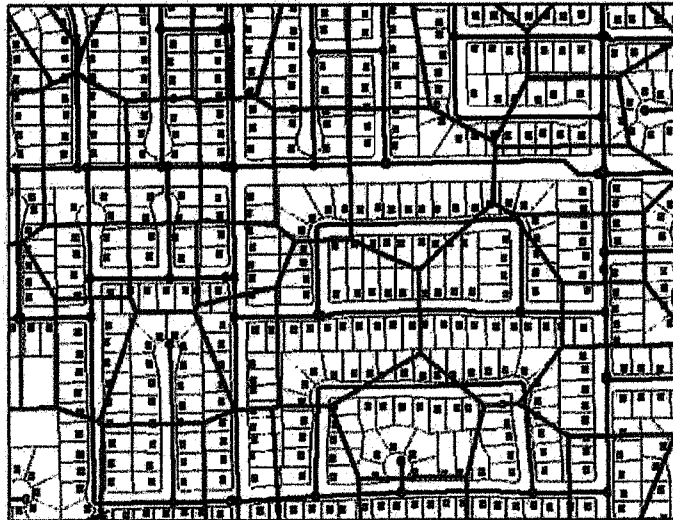
### **Allocation of Demands**

We propose to use one or more years of actual water use data collected from meter readings or billing information to compute and distribute the water system demands in the hydraulic model.

IRWD has already developed a water meter shapefile that contains a unique meter ID that can be used to link billing data records to the GIS map. Any remaining consumption data can be tied to the GIS parcels utilizing Assessor's Parcel Numbers or service address. This method will allow us to use the meter data to obtain a very accurate spatial distribution of demands. Meter consumption data will be adjusted to match the established existing average day and maximum day demands.

Theissen polygons will be created around established demand nodes, similarly to what is shown on Figure 3. All model nodes are not necessarily considered demand nodes. Nodes that do not have demands

**Figure 3**  
**Example of Theissen Polygons**



are typically those that are located near system facilities (wells, reservoirs, pump stations, pressure regulating stations) or along major transmission lines that don't have service lateral connections. Some nodes are also excluded when there are a cluster of nodes located in one area, such as an intersection. This prevents an immense number of Thiessen polygons to be created.

The demands located within each Thiessen polygon will be assigned to the associated model node. This allocation method will inherently account for all high water users at their actual locations. It will most closely represent the current water use, and will be the most appropriate data to use for model calibration after incorporating unaccounted for water. High water users will be segregated out in order to properly represent their diurnal use pattern in the model.

### **Diurnal Curves**

We will retrieve SCADA data for an average and a high demand period for developing diurnal demand curves for each zone. We will collect data for reservoir levels; well flows, groundwater levels and start/stop times; booster pump flows and start/stop times; imported water flows and delivery pressures, pressure reducing station flows and settings, and any system pressure.

It is our understanding that not all the pressure reducing stations have flow meters to track the flows through the valves. There are a total of 170 pressure reducing stations in the system. It would be very costly to install flow metering equipment at each of these stations for developing diurnal curves for each zone. In order to reduce the project cost, we propose to combine some of the smaller closed zones with an adjacent open zone and create one diurnal curve for those areas, eliminating the need for flow data to be collected at several pressure reducing stations.

We propose to only install flow metering equipment at pressure reducing stations that typically experience large enough flow through the valves on a daily basis. We will not install flow metering equipment at the stations that are primarily for emergency/fire flow purposes and do not regularly experience flow through the valves.

As a result of combining zones and eliminating the pressure reducing stations used for emergency/fire flow purposes, it is estimated that we will need to install flow metering equipment at about ten (10) pressure reducing stations.

We will develop individual diurnal use patterns for high water users with specific use patterns by monitoring actual use with equipment such as **Meter Masters** that can be installed over the customer meters and record flows in very short time increments. We will review the water billing data, identify the high water users, and select those that will require a unique use pattern. As requested for proposal purposes, we have assumed that specific use patterns will be developed for about 25 users. This number may increase or decrease upon review of the water billing data. The specific use patterns can be developed at any time during the project because it is assumed that the customer uses water in the same manner from day to day or week to week. The amount of water will differ but the manner in which it is used is assumed to stay relatively consistent. Meters can be installed for a week at a time and moved from one customer to another to gather information. *Our proposal includes the cost to rent 15 Meter Masters for a one month period.*

## **TASK 6: MODEL CALIBRATION**

### **Field Data and SCADA Data Collection**

We propose to calibrate the model for a 24-hour period by collecting field pressure measurements and SCADA data (pump flows and pressures; reservoir levels; well flows, discharge pressures and groundwater levels; pressure reducing station flows; and import connection flows and pressures) for a 2-week time period.

It is our current understanding that the SCADA data can be provided electronically in a database format for the following items:

1. Reservoirs – levels and flow
2. Booster Pump Stations – suction pressure, discharge pressure, and flow at pump stations
3. Wells – level, flow, and discharge pressures
4. Turnouts - upstream pressure, downstream pressure, and flow
5. Pressure Regulating Stations - suction pressure and discharge pressure at most stations

As we review the SCADA information, we will document SCADA existence at each facility and include the documentation with the data collection binder.

As previously mentioned, the flow data at select pressure regulating stations will be collected using ultrasonic flow monitoring equipment. Our proposal includes the cost to rent ten (10) meters for a one month period.

The system pressure data will be collected by attaching data loggers to selected fire hydrants throughout the system. We currently anticipate the need for about 51 data loggers to cover the entire system adequately, as shown in Table 1. Our proposal includes the cost to rent 51 data loggers for a one month period. If it is determined that the budget cannot accommodate the rental of 51 data loggers, we will work with IRWD staff to reduce the number of test points without sacrificing the quality of the calibration work. This may result in eliminating data loggers in the small zones, and covering primarily the large zones. We will install the data loggers with assistance from IRWD staff. AKM will direct and oversee the field calibration process.

**Table 1  
Pressure Data Logger Estimate**

Zone Designation	Number of Data Loggers
Zone 1	2
Zone 1R	12
Zone 2	4
Zone 3	8
Lake Forest Zone 4	3
Lake Forest Zone 5	3
Portola Hills / Foothill Ranch Zones	4
Coastal Zone 4	5
Coastal - Upper Zones	4
SCWD / East Orange Zones	6
<b>Total</b>	<b>51</b>

#### **Model Adjustments**

Diurnal curves will be developed from the collected field data and SCADA data. Individual curves will be developed for large water users. We will input the pump operational settings, as well as the initial conditions of facilities (reservoir levels, pump and well on-off status) in the model. We will adjust the demands to the demand experienced by the system during the calibration period (determined from SCADA data). We will run the model and compare the results to the SCADA data and field measured pressures. We will also compare the model's demands and reservoir levels to the SCADA data collected. If the model results are close to the field measurements (no more than 5 percent deviation in pressure regulating station flows, booster station flows, well flows, and tank levels (to within 1 foot), the model will be deemed calibrated. Otherwise, we will determine the causes of the differences, make adjustments to the model, and re-run it until it closely matches the field conditions. The pipe roughness coefficients (C values) will be the last variable adjusted in the model to reach calibration. Through an iterative process, the system calibration will be refined. Model versus field data graphs for each site will be developed to ensure accuracy within a 5 percent deviation.

#### **Fire Flow Testing**

Fire flow testing shall assist in refining the calibration of the hydraulic model. Locations for fire hydrant flow testing will be selected after performing the initial calibration. We will first run fire flow analysis throughout the system with appropriate fire flows for the various land uses and preliminarily identify potentially deficient areas. We will select the locations based on the results of this analysis, which may include isolated areas; locations which may aid model calibration, particularly to determine pipe friction factors and to locate closed, partially closed and/or open zone isolation valves. Tests will only be performed in areas where a measureable impact can be expected. The information from previous fire flow tests conducted by IRWD will be reviewed and IRWD staff will be



consulted prior to selecting the test locations so as not to duplicate results and to gain further insight as to where meaningful data can be collected.

IRWD staff will assist in performing fire hydrant tests. We propose to use several data loggers near the hydrants flowed to record actual conditions in each area during the hydrant flow tests. These locations will be selected based on the results of the initial fire flow analyses. It is possible that we will flow more than one hydrant in the same vicinity to develop sufficient and meaningful flow in the area.

We will collect the SCADA data from the same time period as the fire flow tests. We will input the recorded flows from each test into the model at the appropriate location. Based on the SCADA data, we will input the pump operational settings and initial conditions of facilities (reservoir levels, pump on-off status) in the model. The recorded static pressures as well as the residual pressures during the fire flow tests will be compared. The system demands will be adjusted to match the test period demands as closely as possible. Adjustment to the model will be made until the model results closely match the fire flow test results.

For proposal purposes, we have included 12 fire flow test locations.

#### **Additional Calibration**

We suggest that the imported water turnouts on the AMP and EOCF2 be closed for several days covering weekday and weekend conditions, if possible, during the calibration data collection period to develop meaningful and accurate data for system analysis during emergencies and planned shutdown of the imported water sources. If desired, turnouts on OCF and Coastal Supply Line can also be closed, but since the source of supply is different and the demand off these turnouts is smaller, it may not be necessary to include them in this effort. We would then calibrate the model for these conditions.

We understand that removing the wells from service is difficult, and requires extensive coordination. However, if it can be done, we can also calibrate the system with an outage of the Dyer Road Wellfield supply line. This may be done with the model calibration for the winter operating conditions.

#### **Schedule**

We propose to install field equipment as soon as possible after the project contract is initiated. If possible, we would like to collect data during the month of September, which is typically one of the warmest months in the service area with a monthly peaking factor of 1.27 per the Water Resources Master Plan. It will most likely capture data closest to maximum demand conditions.

IRWD would like the final model to be calibrated to both summer and winter operating conditions. Further into the project, SCADA data will again be collected during the winter months and the model will be run with winter operational settings.

#### **TASK 7: EXISTING SYSTEM ANALYSIS**

We will conduct extended period simulations of the existing system for the following conditions:

- a. Average day demands
- b. Maximum week demands
- c. Maximum month demands
- d. Maximum day demands (peak hour conditions will be modeled in this scenario)
- e. Maximum day plus fire flow demands

Specifically, the following analyses will be conducted:

- Evaluation of piping system to meet existing demands and fire flow requirements
- Evaluation of pump stations to meet the criteria for the existing conditions.
- Evaluation of reservoirs to meet existing conditions criteria.
- Evaluation of supply (wells and imported water) to meet existing conditions criteria.

We will review the results with IRWD staff to ascertain that they are reasonable. If needed, adjustments will be made and analyses will be conducted again. The maximum week and maximum month demand scenarios are recommended for evaluating the adequacy of the storage facilities.

Typically, for the fire flow analysis, the initial model simulation attempts to supply the entire fire flow from one location. This often results in low residual pressures at many locations. In reality, fire fighting often takes place by using multiple fire hydrants. Therefore, the areas identified with low residual pressures will be reanalyzed using simultaneous fire flow analysis. This is a more manual process by which fire flows will be split between multiple hydrants (typically 2 or 3) and the analysis will be rerun to determine residual pressures. Often times, the system will then be able to meet fire flow demands, eliminating the system deficiencies initially identified.

We will interview the staff again following the initial completion of hydraulic analyses to compare the results to field observations and staff's knowledge of the system.

We will formulate mitigation projects for eliminating the deficiencies identified through the hydraulic analyses. This will include recommendations for expansion and/or replacement of facilities. We will analyze the system until the established criteria is met. We will meet with IRWD for review and obtain comments at appropriate points.

#### **Phase II - Potable Water Future System Model Development**

##### **TASK 8: DEVELOP HYDRAULIC MODEL OF FUTURE POTABLE WATER SYSTEM**

A separate future potable water system model will be developed. The basis for this model will be the fully calibrated existing system model developed in Task 6.

#### **Future Developments**

Available Sub-Area Master Plans (SAMP) documents and files will be utilized in adding future developments within the future hydraulic model. The future pipe geometry and associated data will be imported from available GIS data or previously completed SAMP models of the future developments. The future demands and allocation of demands will be based upon the SAMP documents and hydraulic models. If a SAMP is not available for a particular area, IRWD's GIS-based demand forecasting tool will be utilized.

#### **Future Demands**

IRWD has developed demand projects for the entire service area for the period from 2010 to 2035; based on the general plan information and developer projections. The 2035 projections will be utilized for the future hydraulic model. If the projections are separated by planning area, we will determine the percentage increase in demand for each planning area. Then we will increase the existing demands to the projected demand level for each planning area.



We will meet with IRWD staff to discuss whether or not the 2035 projections and SAMP demand projections have accounted for future water conservation efforts and recycled water service expansion that may be expected to meet the requirements of Senate Bill SBx7-7 (The Water Conservation Act of 2009). Adjustments to demand projections will be made if it is found that the previously calculated projections are too conservative.

The peaking factors developed in Task 4 will be implemented in the future hydraulic model, assuming that the service area use patterns will remain relatively the same.

#### **TASK 9: FUTURE SYSTEM ANALYSIS**

We will conduct extended period simulations of the future system similar to the existing system for the following conditions:

- f. Average day demands
- g. Maximum week demands
- h. Maximum month demands
- i. Maximum day demands (peak hour conditions will be modeled in this scenario)
- j. Maximum day plus fire flow demands

Specifically, the following analyses will be conducted:

- Evaluation of piping system to meet future demands and fire flow requirements
- Evaluation of pump stations to meet future conditions.
- Evaluation of reservoirs to meet future conditions.
- Evaluation of supply (wells and imported water) to meet future conditions.

We will identify future improvements to the distribution system and supply sources as required to service anticipated growth within the service area. This will include recommendations for expansion and/or replacement of facilities. We will analyze the system until the established criteria is met. We will meet with IRWD for review and obtain comments at appropriate points.

#### **PHASE III - OPERATIONAL SCENARIO ANALYSIS**

#### **TASK 10: ANALYSIS OF EMERGENCY SUPPLY CONDITIONS**

We will evaluate the flexibility of the existing and future distribution system to operate under various emergency supply conditions, such as the following:

- Month long outage of the Diemer Plant
- 15-day outage of the Dyer Road Well Field (DRWF)

The actual emergency scenarios for analysis will be finalized at the project kick-off meeting.

#### **TASK 11: WATER RESOURCES MASTER PLAN UPDATE**

A capital improvement program (CIP) will be developed based on the results of the existing and future system hydraulic analyses, and discussions with IRWD staff regarding replacement of aging facilities, if desired. It will include all identified improvements required to support future growth in the service area, as well as improvements required to correct existing system capacity and operational deficiencies. The CIP will include recommendations for improvements to the water distribution system, supply sources, pump



stations, storage facilities, treatment facilities, and instrumentation. We will meet with IRWD for review and obtain comments at appropriate points. Cost estimates will be developed for each recommended CIP project and will include engineering, construction, and other contingencies. To the extent possible, cost estimates will be based on actual bid data for similar projects in the area for agencies with similar contract requirements to that of IRWD.

We will update Chapter 8 (Distribution System Analysis) and Chapter 10 (Estimated Capital Costs) of the IRWD Water Resources Master Plan for the potable water system. If IRWD desires to include any non-potable water system information in these chapters, we will include them as provided by IRWD. Our approach to updating Chapter 8 will be to give a general overview of how the model was developed and calibrated without going into extensive detail. The detailed description of model development and calibration will be provided in the deliverable of Task 12. The Chapter 8 update will include the results of the analyses conducted, providing the basis for the Capital Improvement Program recommendations presented in Chapter 10. A discussion of the basis of future cost estimates and assumptions in developing the cost of capital improvements will be included in Chapter 10.

As requested, an outline of the portions of the two chapters to be updated is included below. Note that the sections related to the non-potable water system will not be updated as a part of this project, but can be included if provided by IRWD.

#### **Chapter 8 Distribution System Analysis**

- 8.1 Purpose**
- 8.2 Distribution System Modeling**
  - 8.2.1 Model Development**
  - 8.2.2 Model Calibration**
  - 8.2.3 Existing System Analysis**
  - 8.2.4 Future System Model**
  - 8.2.5 Future System Analysis**
  - 8.2.6 Operational Scenario Analysis**
- 8.3 Recommended Improvements**
  - 8.3.1 Distribution System – Existing System Improvements (pipelines, reservoirs, pump stations, PRVs)**
  - 8.3.2 Source Development – Existing System Improvements (turnouts, treatment facilities, wells)**
  - 8.3.3 Distribution System - Ultimate System Improvements (pipelines, reservoirs, pump stations, PRVs)**
  - 8.3.4 Source Development – Ultimate System Improvements (turnouts, treatment facilities, wells)**

#### **Chapter 10 Estimated Capital Costs**

- 10.1 Purpose**
- 10.2 Basis of Costs**
  - 10.2.1 Distribution System – Existing System Improvements (pipelines, reservoirs, pump stations, PRVs)**
  - 10.2.2 Source Development – Existing System Improvements (turnouts, treatment facilities, wells)**
  - 10.2.3 Distribution System – Ultimate System Improvements (pipelines, reservoirs, pump stations, PRVs)**
  - 10.2.2 Source Development - Ultimate System Improvements (turnouts, treatment facilities, wells)**
- 10.3 Capital Costs**
  - 10.3.1 Potable Water System**

**TASK 12: TRAINING/DELIVERABLES**

A report entitled "Potable Water System Hydraulic Model" will be submitted as a final deliverable for this project. This report will be in constant development as the project progresses. It will include documentation of the model development including a description of model controls, runs, results, pump curves, facility information, etc. An outline of the final report is as follows:

- 1.0 Hydraulic Model Overview**
- 2.0 Model Geometry** - This section will describe how the model geometry was developed based on GIS data, previous models, as-built plans, etc.
- 3.0 Demands** - This section will describe how the demands were developed and distributed in the models.
- 4.0 Diurnal Curves** - This section will describe how the diurnal curves were developed for various service zones and specific customers. A plot of each one, as well as tabular list will be provided.
- 5.0 Reservoir Data** - This section will include a summary table of pertinent reservoir information. Additional information such as as-built plans will be included in the appendix of the report.
- 6.0 Pipe Data** - This section will include a summary table of pipe information included in the model(s) and friction factors implemented.
- 7.0 Booster Hydraulic Data** - This section will include a summary table of pertinent booster pump information. Additional information such as as-built plans, pump curves, and efficiency tests will be included in the appendix of the report.
- 8.0 Well Pump Data** - This section will include a summary table of pertinent well pump data. Additional information such as as-built plans, pump curves, efficiency tests, and drilling logs will be included in the appendix of the report.
- 9.0 Pressure Regulating Station Data** - This section will include a summary table of pertinent pressure regulating station information. Additional information such as as-built plans will be included in the appendix of the report.
- 10.0 Control Data** - This section will include a summary table(s) of control information for the pumps, valves, wells, and treatment facilities.
- 11.0 Scenarios and Datasets** - This section will describe the scenarios and datasets set up in each model (i.e. average day, maximum month, maximum week, maximum day, maximum day plus fire).
- 12.0 Model Calibration**
- 13.0 Existing System Analysis**
- 14.0 Future System Model**
- 15.0 Future System Analysis**
- 16.0 Operational Scenario Analysis**

Submittals shall include the following:

1. 50 Percent Submittal - Model files with all facilities modeled, demands allocated, controls implemented. A binder of all facility information collected (as-built plans, pump curves, control settings, etc.) will be compiled and submitted with the model files.
2. 90 Percent Submittal - Fully calibrated and functional model files and draft model documentation.
3. 100 Percent Submittal - Final calibrated model files, all input files, graphics, spreadsheets, databases, GIS coverages, etc.  
10 copies of final report along with MS Word 2007 compatible file.



The following workshops will be conducted:

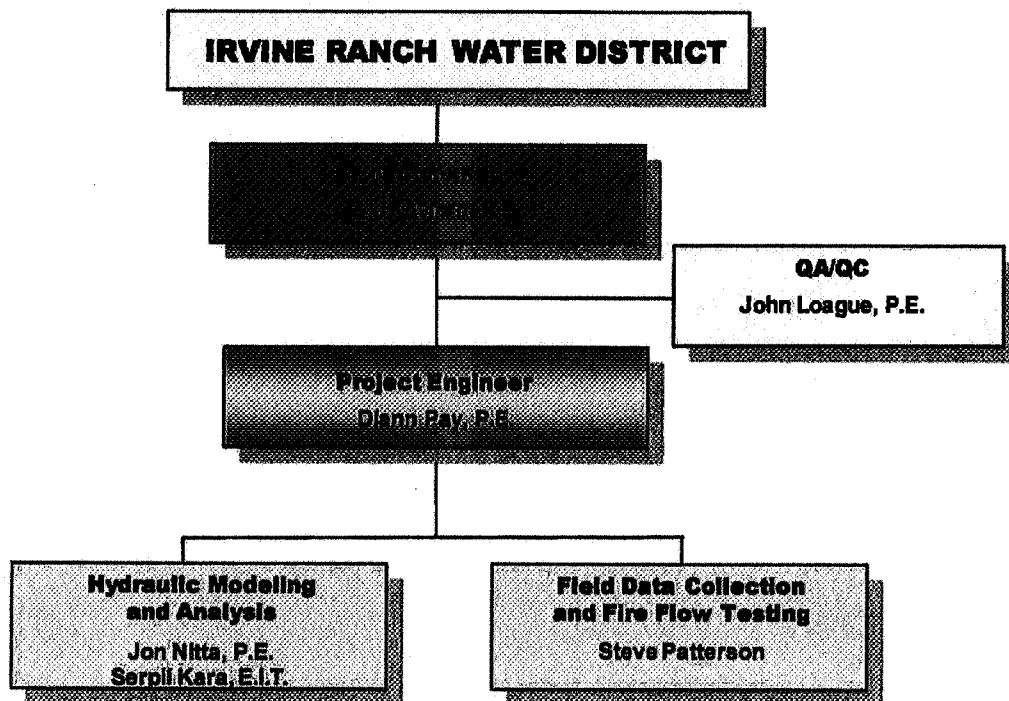
1. One 4-hour workshop for the review of the 50 percent submittal
2. One 4- hour workshop for the review of the 90 percent submittal
3. A 2-day workshop once the models are completed. This workshop will cover the following topics:
  - a. Model construction
  - b. Adding or modifying the model elements
  - c. Model calibration
  - d. Fire-flow modeling and analysis
  - e. Modeling select scenarios
  - f. Updating the model with future GIS information

AKM Consulting Engineers provides an in-house multi-disciplinary staff of professionals who are recognized specialists in their areas of expertise. The staff members have superb technical training and academic backgrounds. Furthermore, they regularly attend technical seminars to keep abreast of the professional developments in their fields.

Resumes providing a list of water and recycled water system modeling and master planning related projects completed by key staff are included in this section. We included detailed descriptions of sample projects in Section 3.

AKM's Project Team is well qualified to undertake the work and provide superior technical and project management services. All personnel assigned to this project are recognized technical specialists in calibrated water model development and water and recycled water master planning. All proposed AKM staff is located in its Irvine, California office. The key staff assigned to the project will not be reassigned without prior IRWD written approval.

### Project Organizational Chart



# IRVINE RANCH WATER DISTRICT

# EXHIBIT "C"

## Expenditure Authorization

Project Name: HYDRAULIC MODEL UPDATE / CALIBRATION - DOMESTIC

EPMS Project No: 11384 EA No: 1

Oracle Project No: 1095

Project Manager: HOOLIHAN, MICHAEL

Project Engineer: AKIYOSHI, ERIC

Request Date: September 7, 2012

ID Split: Regional Water Split with LAWD (11/08)

### Improvement District (ID) Allocations

ID No.	Allocation %	Source of Funds
112	3.6	BONDS YET TO BE SOLD**
113	4.4	BONDS YET TO BE SOLD**
115	6.2	CAPITAL FUND
121	12.8	BONDS YET TO BE SOLD**
130	10.0	BONDS YET TO BE SOLD**
135	16.2	PREVIOUSLY SOLD BONDS
140	3.5	BONDS YET TO BE SOLD**
150	26.1	BONDS YET TO BE SOLD**
153	2.9	BONDS YET TO BE SOLD**
154	1.2	BONDS YET TO BE SOLD**
161	6.7	BONDS YET TO BE SOLD**
182	2.5	BONDS YET TO BE SOLD**
184	2.3	BONDS YET TO BE SOLD**
186	.8	BONDS YET TO BE SOLD**
188	.8	BONDS YET TO BE SOLD**
<b>Total</b>	<b>100.0%</b>	

### Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$0
This Request:	\$467,500
<b>Total EA Requests:</b>	<b>\$467,500</b>
Previously Approved Budget:	\$401,500
Budget Adjustment Requested this EA:	\$66,000
<b>Updated Budget:</b>	<b>\$467,500</b>
<b>Budget Remaining After This EA</b>	<b>\$0</b>

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING - PLANNING IRWD	50,000	0	50,000	0	50,000	50,000	1/13	1/14
ENGINEERING - PLANNING OUTSIDE	360,000	0	360,000	60,000	300,000	360,000	1/13	1/14
CONSTRUCTION FIELD SUPPORT	15,000	0	15,000	0	15,000	15,000	1/13	1/14
Contingency - 10.00% Subtotal	\$42,500	\$0	\$42,500	\$6,000	\$36,500	\$42,500		
<b>Subtotal (Direct Costs)</b>	<b>\$467,500</b>	<b>\$0</b>	<b>\$467,500</b>	<b>\$66,000</b>	<b>\$401,500</b>	<b>\$467,500</b>		
Estimated G/A - 180.00% of direct labor*	\$117,000	\$0	\$117,000	\$0	\$117,000	\$117,000		
<b>Total</b>	<b>\$584,500</b>	<b>\$0</b>	<b>\$584,500</b>	<b>\$66,000</b>	<b>\$518,500</b>	<b>\$584,500</b>		
Direct Labor	\$65,000	\$0	\$65,000	\$0	\$65,000	\$65,000		

\*EA includes estimated G&A. Actual G&A will be applied based on the current ratio of direct labor to general and administrative costs.

EA Originator: \_\_\_\_\_ 9/7/12

Department Director: \_\_\_\_\_ 9/12/12

Finance: \_\_\_\_\_

Board/General Manager: \_\_\_\_\_

\*\* IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$597,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.



September 24, 2012 <sup>PO</sup> ~~Sc~~ RKM  
Prepared by: S. Bomkamp/R. Mori  
Submitted by: K. Burton <sup>WB</sup>  
Approved by: Paul Cook <sup>PC</sup>

## ACTION CALENDAR

### WELLS 21 AND 22 DESALTER CONTRACT CHANGE ORDER

#### SUMMARY:

The Wells 21 and 22 Desalter Project is being constructed by Pascal & Ludwig Constructors (P&L). Staff recommends that the Board:

- Approve an Expenditure Authorization in the amount of \$1,659,600; and
- Approve Contract Change Order (CCO) No. 17 in the amount of \$302,496 to P&L for the Wells 21 and 22 Desalter, Project 10286.

#### BACKGROUND:

The Wells 21 and 22 Project, located in the City of Tustin, is being constructed under three separate construction contracts: the treatment plant, the offsite pipelines, and the wellhead facilities. The project is receiving 25% matching funds, up to a maximum of \$11,700,000, in Title XVI funding through the United States Bureau of Reclamation (USBR) from the American Recovery and Reinvestment Act of 2009 (ARRA). The design/build of the Wells 21 and 22 Desalter Plant was awarded to P&L in June 2010 in the amount of \$14,152,587. Tetra Tech is serving as the engineering consultant to P&L.

In July 2011, the Board authorized CCO No. 4 to P&L to reconfigure the site from the layout that was initially bid. The modification resulted in an improved site layout that has built-in plant expansion capabilities, and which maximized the space on the front of the plant site for possible future development, similar to the IDP plant site. Since that time, staff has continued to work closely with the design-build team of Pascal & Ludwig/Tetra Tech to resolve various design and construction issues while continuing to progress the construction. Through that process, various additions, deletions, and changes to the job have been implemented. Staff has recently finalized these changes which are included in CCO No. 17 as described below.

#### Contract Change Order No. 17:

CCO No. 17, in the amount of \$302,496, consists of the following items:

- Construction changes associated with the major site layout change executed with CCO No. 4 prior to fully developing the revised construction design drawings in the amount of \$165,540;
- Project enhancements, substitutions, and deletions in the amount of \$740; and
- Extended field operating costs and additional contract time in the amount of \$136,216 and 191 calendar days.

Staff has reviewed the cost and time proposals, negotiated changes, and mutually agreed with P&L on this change order, as attached as Exhibit "A".

Schedule:

The construction of the plant facilities is nearing completion. CCO No. 17 includes a time extension of 191 calendar days, which staff has evaluated and found to be acceptable. This time extension days provides additional time to compensate for delayed procurements, added work, loss of efficiency due to more confined work area, re-sequenced schedule activities, and all impacts associated with these changes. Based on this request, the current completion date of May 8, 2012 will be extended to November 15, 2012.

The project has been proceeding in accordance with the revised USBR funding schedule that requires reimbursable project costs to be incurred prior the October 31, 2012. With the revised completion schedule extending beyond the funding milestone, staff will begin coordination efforts with USBR to discuss available options which may include a schedule extension request.

FISCAL IMPACTS:

Project 10286 (1081) is included in the FY 2012-13 Capital Budget. An Expenditure Authorization is requested as shown in the table below and in Exhibit "B" for CCO No. 17, staff time, construction management and inspection services, and other project close-out items.

Project No.	Current Budget	Addition <Reduction>	Total Budget	Existing EA	This EA Request	Total EA Request
10286(1081)	\$39,921,300	\$-0-	\$39,921,300	\$38,261,700	\$1,659,600	\$39,921,300

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, a Mitigated Negative Declaration was adopted February 8, 2010. To fulfill requirements of the American Recovery and Reinvestment Act of 2009, the project is also subject to compliance with the National Environmental Policy Act (NEPA). An Environmental Assessment was prepared to achieve NEPA compliance for the project and the U.S. Bureau of Reclamation adopted the Categorical Exemption for the project on March 17, 2010.

COMMITTEE STATUS:

This item was reviewed at the Engineering and Operations Committee on September 18, 2012.

RECOMMENDATION:

THAT THE BOARD APPROVE AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$1,659,600 AND APPROVE CONTRACT CHANGE ORDER NO. 17 IN THE AMOUNT OF \$302,496 TO PASCAL & LUDWIG CONSTRUCTORS FOR THE WELLS 21 AND 22 DESALTER, PROJECT 10286 (1081).



Action Calendar: Wells 21 and 22 Desalter Contract Change Order  
September 24, 2012  
Page 2

**LIST OF EXHIBITS:**

Exhibit "A" – Pascal and Ludwig Constructors Contract Change Order No. 17  
Exhibit "B" – Expenditure Authorization



# EXHIBIT "A"

Change Order No. 17 Summary  
21/22 Desalter Plant  
Design/Build by Pascal & Ludwig Constructors

Construction Change Order (CCO) No. 17 for \$302,496 is being submitted for approval. This CCO consists of the following work items:

## **1. MODIFIED SITE LAYOUT - \$165,540**

### **1.1. Site Fencing Modifications - \$12,615**

Added additional Montage wrought iron perimeter fencing and modified corner alignments, as well as the addition of chain link fencing/barb wire to conform to neighbors' fence lines.

### **1.2. SCRRRA Permit Costs - \$13,848**

Mandated requirements and associated costs as of 30 April necessary to conform to the SCRRRA permit issued to construct the offsite dump line crossing the Railroad Right of Way. These requirements included specialized SCRRRA safety training, permits, flagmen, meetings and coordination.

### **1.3. Construction Changes for the Revised Site Layout - \$139,077**

- 1.3.1. Cartridge Filter Pad - The Cartridge Filter Pad was relocated and revised/extended to facilitate the insertion of control valves. \$10,056
- 1.3.2. Bollards - The reconfigured site resulted in eleven additional bollards to protect relocated and additional equipment. \$7,127
- 1.3.3. Light Pole Bases - With the elimination of the side perimeter walls and attached lighting, separate light pole bases were added. \$6,069
- 1.3.4. Site Surface Drainage - The relocation of the site necessitated additional drainage swales, curb and gutter, and curb. \$15,026
- 1.3.5. Site Paving - The OCFA mandated site access has resulted in additional AC paved access road. \$4,922
- 1.3.6. Tote Pads - The chemical tote pads were relocated to the rear of the site necessitating concrete pads. \$8,469
- 1.3.7. Air Gap Piping Pad - The relocation of the air gap and the lines dumping into this facility required an additional concrete slab on grade and pipe supports. \$20,927
- 1.3.8. West Utility Pad - The revised SCE utility drawings required an additional slab on grade incorporating the utility trench and immediate area. \$8,872
- 1.3.9. Miscellaneous Pads - Upgraded concrete landings and ramps have been incorporated. \$5,341
- 1.3.10. Site Markings and signage - OCFA has mandated additional fire signage, curb markings, and building lettering. \$11,341
- 1.3.11. Site Drainage has been enhanced as a result of the City of Tustin Requirement for Biofilter storm water treatment and additional storm drain line. \$40,927

**2. MISC. ENHANCEMENTS, SUBSTITUTIONS, AND DELETIONS - \$740**

**2.1. Deletion of Leak Detectors – (\$2,426)**

The final design resulted in the elimination of eleven redundant leak detectors on the underground double containment piping system associated with the chemical feed systems.

**2.2. Biwater Fall Protection – (\$1,737)**

The final design revealed that the fall protection system at the CIP tanks was not required either by code or operational necessity.

**2.3. Miscellaneous Valve Modifications (\$2,303)**

The electrical operator on the supply line shut off valve on each of five chemical tanks was deemed superfluous and was been eliminated.

**2.4. Ethernet Switches - \$10,366**

Two additional Ethernet switches were added to PLC 1 and PLC2.

**2.5. Modifications to the Fire Monitoring System - \$1,840**

District requested that the Fire alarm monitoring system be configured to facilitate IRWD SCADA monitoring in addition to the landline monitoring service required by OCFA.

**2.6. Delete Laboratory Furniture – (\$5,000)**

At the time of proposal, the contractor included a \$5,000 allowance for control room/laboratory furniture. The District has elected to take this as a credit and supply whatever furniture deemed necessary.

**3. TIME EXTENSION - \$136,216**

Additional time and costs associated with additional work and permit acquisition required for the off spec line to the channel; modifications made to the Product Water Pumps; and the associated extended design effort. Additionally, this change order covers all additional costs associated with the cumulative time extension to November 15, 2012.

## CONTRACT CHANGE ORDER

**IRVINE RANCH WATER DISTRICT**  
 15600 Sand Canyon Avenue  
 Irvine, California 92619  
 (949) 453-5300



C.O. No. 17  
 Final  
 Project No. 10286 (1081)

Wells 21 and 22 Desalter  
 Project Title

Date: September 10, 2012

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
Site Modifications and Miscellaneous Changes:			
1. Modified site layout	\$165,540.00		0
2. Project enhancements, substitutions, and deletions	\$12,206.00	\$11,466.00	0
3. Extended field operating costs and additional time	\$136,216.00		191
This change order covers cost and schedule impacts for all changes through September 5, 2012 and extends the contract completion requirement from May 8, 2012 to November 15, 2012. The change order also includes all corresponding costs associated with the cumulative schedule extension to November 15, 2012.			
<b>TOTAL</b>	<b>\$313,962.00</b>	<b>\$11,466.00</b>	<b>191</b>

DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	=	\$302,496.00	191
2. ORIGINAL CONTRACT AMOUNT	=	\$14,152,587.00	450
3. TOTAL PREVIOUS CHANGE ORDER(S)	=	\$2,251,160.00	201
4. TOTAL BEFORE THIS CHANGE ORDER (2+3)	=	\$16,403,747.00	651
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	=	\$16,706,243.00	842

We hereby agree to make the above change subject to the terms of this change order for the sum of: \_\_\_\_\_

Three Hundred and Two Thousand, Four Hundred Ninety Six and no/100 ----- Dollars

9-11-12  
Date

Pascal & Ludwig Constructors  
Contractor

Alan Ludwig  
By

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
	<u>9/11/2012</u> Date	Department Director Approval Required <input type="checkbox"/> General Manager Approval Required <input type="checkbox"/> Committee Approval Required <input type="checkbox"/> Board Approval Required <input checked="" type="checkbox"/>
	<u>09/11/12</u> Date	
	<u>9/11/12</u> Date	
	 Date	
		By _____ Date _____
		500997 Purchase Order No.

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

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

CSG-02



# IRVINE RANCH WATER DIST EXHIBIT "B"

## Expenditure Authorization

Project Name: WELLS 21 & 22 WELLHEAD, PIPELINE & TREATMENT PLANT

EPMS Project No: 10286 EA No: 17

ID Split: Regional Potable Water Splits (11/08)

Oracle Project No: 1081

### Improvement District (ID) Allocations

Project Manager: MORI, RICHARD

Project Engineer: MORI, RICHARD

Request Date: September 12, 2012

### ID No. Allocation % Source of Funds

ID No.	Allocation %	Source of Funds
112	4.3	BONDS YET TO BE SOLD**
113	5.2	BONDS YET TO BE SOLD**
115	7.3	CAPITAL FUND
121	15.3	BONDS YET TO BE SOLD**
130	11.8	BONDS YET TO BE SOLD**
140	4.2	BONDS YET TO BE SOLD**
150	31.2	BONDS YET TO BE SOLD**
153	3.4	BONDS YET TO BE SOLD**
154	1.5	BONDS YET TO BE SOLD**
161	8.0	BONDS YET TO BE SOLD**
182	3.0	BONDS YET TO BE SOLD**
184	2.8	BONDS YET TO BE SOLD**
186	1.0	BONDS YET TO BE SOLD**
188	1.0	BONDS YET TO BE SOLD**
<b>Total</b>	<b>100.0%</b>	

### Summary of Direct Cost Authorizations

Previously Approved EA Requests:	\$38,261,700
This Request:	\$1,659,600
<b>Total EA Requests:</b>	<b>\$39,921,300</b>
Previously Approved Budget:	\$39,921,300
Budget Adjustment Requested this EA:	\$0
<b>Updated Budget:</b>	<b>\$39,921,300</b>
<b>Budget Remaining After This EA</b>	<b>\$0</b>

Comments:

Phase	This EA Request	Previous EA Requests	EA Requests to Date	This Budget Request	Previous Budget	Updated Budget	Start	Finish
ENGINEERING - PLANNING IRWD	0	20,000	20,000	0	20,000	20,000	10/11	9/12
ENGINEERING - PLANNING OUTSIDE	0	150,000	150,000	0	150,000	150,000	10/11	9/12
ENGINEERING DESIGN - IRWD	0	250,000	250,000	0	250,000	250,000	11/09	6/12
ENGINEERING DESIGN - OUTSIDE	0	4,025,000	4,025,000	0	4,025,000	4,025,000	11/09	6/12
DESIGN STAFF FIELD SUPPORT	0	10,000	10,000	0	10,000	10,000	11/09	6/12
ENGINEERING - CA&I IRWD	0	250,000	250,000	0	250,000	250,000	5/10	7/12
ENGINEERING - CA&I OUTSIDE	0	2,440,100	2,440,100	0	2,440,100	2,440,100	5/10	7/12
CONSTRUCTION FIELD SUPPORT	0	50,000	50,000	0	50,000	50,000	5/10	7/12
CONSTRUCTION	1,627,000	25,771,300	27,398,300	0	27,398,300	27,398,300	5/10	7/12
LEGAL	0	50,000	50,000	0	50,000	50,000	11/09	7/12
LAND	0	4,325,100	4,325,100	0	4,325,100	4,325,100	1/10	6/10
WATER QUALITY	0	170,000	170,000	0	170,000	170,000	11/09	9/12
ENGINEERING ENVIRONMENTAL-OUTS	0	0	0	0	0	0	6/09	6/10
Contingency - 2.00% Subtotal	\$32,600	\$750,200	\$782,800	\$0	\$782,800	\$782,800		
<b>Subtotal (Direct Costs)</b>	<b>\$1,659,600</b>	<b>\$38,261,700</b>	<b>\$39,921,300</b>	<b>\$0</b>	<b>\$39,921,300</b>	<b>\$39,921,300</b>		
Estimated G/A - 180.00% of direct labor*	\$0	\$1,350,000	\$1,350,000	\$0	\$1,350,000	\$1,350,000		
<b>Total</b>	<b>\$1,659,600</b>	<b>\$39,611,700</b>	<b>\$41,271,300</b>	<b>\$0</b>	<b>\$41,271,300</b>	<b>\$41,271,300</b>		
Direct Labor	\$0	\$750,000	\$750,000	\$0	\$750,000	\$750,000		

\*EA includes estimated G&A. Actual G&A will be applied based on the current ratio of direct labor to general and administrative costs.

EA Originator:

*[Signature]* 9/12/12

Department Director:

*[Signature]* 9-12-12

Finance:

Board/General Manager:

\*\* IRWD hereby declares that it reasonably expects those expenditures marked with two asterisks to be reimbursed with proceeds of future debt to be incurred by IRWD in a maximum principal amount of \$42,097,000. The above-captioned project is further described in the attached staff report and additional documents, if any, which are hereby incorporated by reference. This declaration of official intent to reimburse costs of the above-captioned project is made under Treasury Regulation Section 1.150-2.

