

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

July 24, 2017

PLEDGE OF ALLEGIANCE

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

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

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 three minutes per speaker on each subject. Consent Calendar items will be acted upon by one motion, without discussion, unless a request is made for specific items to be removed from the Calendar for separate action.

COMMUNICATIONS TO THE BOARD

1. A. Written:
- B. Oral:
2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

Recommendation: Determine the need to discuss and/or take immediate action on item(s).

PUBLIC HEARING

Resolution No. 2017-18

3. SEWER TAXES IN THE NEWPORT NORTH SERVICE AREA
 - a. Recommendation: Open the hearing.
 - b. Inquire of the Secretary how the hearing was noticed.
 - c. Receive and file the affidavit of posting and proof of publication.
 - d. Inquire of the Secretary if there have been any written communications.
 - e. Request legal counsel to describe the nature of the proceedings.
 - f. Hear any person who wishes to speak regarding sewer taxes in the Newport North service area.
 - g. Inquire of the Board if it has any comments or questions.
 - h. Close the hearing, and
 - i. Adopt a resolution by title.

Reso No. 2017-

CONSENT CALENDAR

Items 4-9

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 and John Withers, as described.

5. MINUTES OF BOARD MEETINGS

Recommendation: That the minutes of the July 7, 2017 Adjourned Regular Board Meeting and the July 10, 2017 Regular Board Meeting be approved as presented.

6. JUNE 2017 TREASURY REPORTS

Recommendation: That the Board receive and file the Treasurer's Investment Summary Report, the monthly Interest Rate Swap summary for June 2017, and Disclosure Report of reimbursements to Board members and staff; approve the June 2017 summary of Payroll ACH payments in the total amount of \$1,725,165 and approve the June 2017 Accounts Payable Disbursement Summary of Warrants 377651 through 378595, Workers' Compensation distributions, wire transfers, payroll withholding distributions and voided checks in the total amount of \$51,972,588.

7. IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

Recommendation: That the Board receive and file the report.

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

Recommendation: That the Board authorize the General Manager to execute a reimbursement agreement with the City of Irvine for its annual slurry seal and pavement rehabilitation project, bid no. 18-1292.

9. DYER ROAD WELLFIELD WELL 3 REHABILITATION FINAL ACCEPTANCE

Recommendation: That the Board accept construction of the Dyer Road Wellfield Well 3 Rehabilitation, project 04327; authorize the General Manager to file a Notice of Completion; and authorize the payment of the retention 35 days after the date of recording the notice of completion.

ACTION CALENDAR

10. IRVINE LAKE PIPELINE NORTH CONVERSION RESERVOIR
CONTRACT CHANGE ORDER

Recommendation: That the Board approve Contract Change Order No. 8 with Pascal & Ludwig Constructors in the amount of \$314,692 for import and placement of additional structural backfill beneath the reservoir for the Irvine Lake Pipeline North Conversion Reservoir, project 05407.

11. MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY
RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 56

Recommendation: That The Board approve Contract Change Order No. 56 in the amount of \$201,744.33 with Filanc/Balfour Beatty for the addition of stairs and a platform for the regenerative thermal oxidizer, and programming modifications for the microturbine's capstone logic controller for the Michelson Water Recycling Plant Biosolids and Energy Recovery, Project No. 04286.

12. SETTING CONNECTION FEES AND PROPERTY TAXES FOR FISCAL
YEAR 2017-18

Recommendation: That the Board adopt a resolution: 1) adopting changes to the connection fees as set forth in the Schedule of Rates and Charges in Exhibit "B" to the Rules and Regulations of IRWD for water, sewer, recycled water, and natural treatment system service effective September 1, 2017; 2) establishing Ad Valorem tax revenues for FY 2017-18; and 3) amending allocation of Ad Valorem Property taxes to debt service subject to pledge.

Reso. No .2017 -
Reso. No. 2017 -
Reso. No. 2017 -

13. WATER STORAGE INVESTMENT PROGRAM GRANT APPLICATION

Recommendation: That the Board adopt a resolution by title that authorizes the General Manager to submit a grant application for Water Storage Investment Program funding, confirms that IRWD has the capability to provide its cost share funding as specified in the application's project funding plan, and that authorizes the General Manager to work with the California Water Commission to meet established deadlines and to execute an acceptable funding agreement.

Reso. No. 2017 -

OTHER BUSINESS

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

14. A. General Manager's Report
- B. Directors' Comments
- C. Closed Session

CONFERENCE WITH REAL PROPERTY NEGOTIATOR
(Government Code Section 54956.8)

Property: Biscayne Bay Drive, Lake Forest, CA

Negotiating Parties: Multiple

Agency Negotiator: Paul Cook, General Manager

Purpose of Negotiations: Price and Terms of Purchase

- D. Adjourn

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

July 24, 2017

Prepared by: Cheryl Carter

Submitted by: Cheryl Clary

Approved by: Paul A. Cook

PUBLIC HEARING

SEWER TAXES IN THE NEWPORT NORTH SERVICE AREA

SUMMARY:

On June 26, 2017, the Board adopted Rates and Charges for Fiscal Year 2017-18, which included monthly sewer charges of \$25.75 for a residential single family home and \$19.30 per unit for multiple family dwelling units. The Newport North customers will have the same rate, but the method of collection differs in that they pay their sewer fees on an annual basis by means of the County tax rolls.

By adoption of Resolution No. 1987-45, the Board of Directors elected to have sewer charges for certain parcels of land located in the Newport North area collected on the tax roll together with the District's general taxes. That resolution directs the filing of a report containing a description of such parcels and the corresponding charges for each fiscal year. Pursuant to the requirements of the Health and Safety Code of the State of California, a public hearing on the report is required. The District Secretary has noticed a hearing for this meeting for objections or protests to the report, if any.

OUTLINE OF PROCEEDINGS

- President: Declare this to be the time and place for a hearing on the sewer taxes in the Newport North area, and declare the hearing open. Ask the Secretary how the hearing was noticed.
- Secretary: The report was filed with the Secretary on July 3, 2017 and notice of the filing of the report and the time and place of this hearing was published in the Newport Beach-Costa Mesa Daily Pilot on July 8 and July 15, 2017. A notice was also posted in the District office on July 3, 2017.
- Board: RECOMMENDED MOTION: "RECEIVE AND FILE THE AFFIDAVIT OF POSTING AND THE PROOF OF PUBLICATION PRESENTED BY THE SECRETARY."
- President: Request Legal Counsel to describe the nature of the proceedings.
- Legal Counsel: The purpose of the hearing is to provide an opportunity for all persons interested or the owner of any parcel within the area to present objections or protests to the report.
- President: Inquire of the Secretary whether there have been any written communications.

President: Inquire whether there is anyone present who wishes to address the Board regarding the proposed collection of sewer charges on the tax roll.

President: Inquire whether there are any comments or questions from members of the Board of Directors. State that the hearing will be closed.

Board: RECOMMENDED MOTION: THAT THE HEARING BE CLOSED AND THAT THE FOLLOWING RESOLUTION BE ADOPTED BY TITLE:

RESOLUTION NO. 2017 -

RESOLUTION OF THE BOARD OF DIRECTORS
OF IRVINE RANCH WATER DISTRICT ADOPTING
SEWER TAXES IN THE NEWPORT NORTH SERVICE AREA

FISCAL IMPACTS:

The sewer rates charged in Newport North are the same as any other area within the District, and therefore will be set at the equivalent of \$25.75 per month for residential single family home and \$19.30 per month for multiple family dwelling units for a total FY 2017-18 assessment of \$309.00 or \$231.60. Only the means of collection is different for the customers in Newport North.

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.

FISCAL IMPACTS:

None.

COMMITTEE STATUS:

This is a routine annual item for Board consideration and was not reviewed by a Committee.

LIST OF EXHIBITS:

Exhibit "A" - Resolution

Exhibit "A"

RESOLUTION NO. 2017-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT ADOPTING
REPORT OF SEWER CHARGES TO BE COLLECTED
ON TAX ROLL

WHEREAS, by Resolution No. 1987-45 adopted August 10, 1987, the Board of Directors of Irvine Ranch Water District ("IRWD") elected to have sewer charges for certain parcels collected on the tax roll each year in the same manner, by the same persons, and at the same time as, together with and not separately from, its general taxes, pursuant to Section 5473 et seq. of the California Health and Safety Code; and

WHEREAS, pursuant to said Resolution, a report has been filed with the Secretary containing a description of such parcels and the corresponding charges for fiscal year 2017-18 and notice was given as required by law of a hearing on the report to be held on Monday, the 24th day of July, 2017, at the hour of 5:00 p.m. of said day (or as soon thereafter as is reasonably practicable) in the Board of Directors meeting room of IRWD, 15600 Sand Canyon Avenue, Irvine, California; and

WHEREAS, at the time set, the duly noticed public hearing was held and all persons interested were given an opportunity to be heard concerning the report and to submit any objections or protests to the report.

NOW, THEREFORE, the Board of Directors of IRWD does hereby RESOLVE, DETERMINE and ORDER as follows:

Section 1. The Board of Directors hereby determines that protests to the report were not made by the owners of a majority of separate parcels of property described in the report.

Section 2. The Board of Directors hereby adopts the report containing a description of the parcels for which charges for sewer service shall be collected on the tax roll and containing the amount of the charges for each parcel for the fiscal year 2017-18, computed in conformity with the schedule of rates and charges adopted by Resolution No. 2017-___. The report is attached as Exhibit "A" and incorporated herein by this reference. Each charge set forth in Exhibit "A" is hereby determined to be adopted.

Section 3. The Secretary is hereby authorized and directed to endorse on the report a statement that the report was adopted by this Board on July 24, 2017, and to take whatever other action is required by the Auditor of the County of Orange in regard thereto.

Section 4. The Secretary is hereby authorized and directed to file a copy of such report with the Auditor of the County of Orange.

APPROVED, SIGNED and ADOPTED this 24th day of July, 2017.

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

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

APPROVED AS TO FORM;
NOSSAMAN LLP

By _____

**Irvine Ranch Water District
Orange County Special Assessment Report
Fiscal Year 2017/2018**

<u>Parcel #</u>	<u>Amount</u>	<u>Parcel #</u>	<u>Amount</u>	<u>Parcel #</u>	<u>Amount</u>	<u>Parcel #</u>	<u>Amount</u>	<u>Parcel #</u>	<u>Amount</u>	<u>Parcel #</u>	<u>Amount</u>
42734202	309.00	44204208	132,012.00	44204210	309.00	44205210	463.20	44205401	309.00	44205402	309.00
44205403	309.00	44205404	309.00	44205405	309.00	44205406	309.00	44205407	309.00	44205408	309.00
44205409	309.00	44205410	309.00	44205411	309.00	44205412	309.00	44205413	309.00	44205414	309.00
44205415	309.00	44205416	309.00	44205417	309.00	44205418	309.00	44205419	309.00	44205420	309.00
44205421	309.00	44205422	309.00	44205423	309.00	44205424	309.00	44205425	309.00	44205426	309.00
44205427	309.00	44205428	309.00	44205429	309.00	44205430	309.00	44205431	309.00	44205432	309.00
44205433	309.00	44205434	309.00	44205435	309.00	44205436	309.00	44205437	309.00	44205438	309.00
44205439	309.00	44205440	309.00	44205441	309.00	44205442	309.00	44205443	309.00	44205444	309.00
44205445	309.00	44205446	309.00	44205447	309.00	44205448	309.00	44205449	309.00	44205450	309.00
44205451	309.00	44205452	309.00	44205453	309.00	44205454	309.00	44205455	309.00	44205456	309.00
44205457	309.00	44205458	309.00	44205459	309.00	44205460	309.00	44205461	309.00	44205501	309.00
44205502	309.00	44205503	309.00	44205504	309.00	44205505	309.00	44205506	309.00	44205507	309.00
44205508	309.00	44205509	309.00	44205510	309.00	44205511	309.00	44205512	309.00	44205513	309.00
44205514	309.00	44205515	309.00	44205516	309.00	44205517	309.00	44205518	309.00	44205519	309.00
44205520	309.00	44205521	309.00	44205522	309.00	44205523	309.00	44205524	309.00	44205525	309.00
44205526	309.00	44205527	309.00	44205528	309.00	44205529	309.00	44205530	309.00	44205531	309.00
44205532	309.00	44205533	309.00	44205534	309.00	44205535	309.00	44205536	309.00	44205537	309.00
44205538	309.00	44205539	309.00	44205540	309.00	44205541	309.00	44205542	309.00	44205543	309.00
44205544	309.00	44205545	309.00	44205546	309.00	44205547	309.00	44205548	309.00	44205549	309.00
44205550	309.00	44205551	309.00	44205552	309.00	44205553	309.00	44205554	309.00	44205555	309.00
44205556	309.00	44205557	309.00	44205601	309.00	44205602	309.00	44205603	309.00	44205604	309.00
44205605	309.00	44205606	309.00	44205607	309.00	44205608	309.00	44205609	309.00	44205610	309.00
44205611	309.00	44205612	309.00	44205613	309.00	44205614	309.00	44205615	309.00	44205616	309.00
44205617	309.00	44205618	309.00	44205619	309.00	44205620	309.00	44205621	309.00	44205622	309.00
44205623	309.00	44205624	309.00	44205625	309.00	44205626	309.00	44205627	309.00	44205628	309.00
44205629	309.00	44205630	309.00	44205631	309.00	44205632	309.00	44205633	309.00	44205634	309.00
44205635	309.00	44205636	309.00	44205637	309.00	44205638	309.00	44205639	309.00	44205640	309.00
44205641	309.00	44206115	69,480.00	44228201	309.00	44231169	309.00	93180614	309.00	93180615	309.00
93180616	309.00	93180617	309.00	93180618	309.00	93180619	309.00	93180620	309.00	93180621	309.00
93180622	309.00	93180623	309.00	93180624	309.00	93180625	309.00	93180626	309.00	93180627	309.00
93180628	309.00	93180629	309.00	93180630	309.00	93180631	309.00	93180632	309.00	93180633	309.00

93180634	309.00	93180635	309.00	93180636	309.00	93180637	309.00	93180638	309.00	93180639	309.00
93180640	309.00	93180641	309.00	93180642	309.00	93180643	309.00	93180644	309.00	93180645	309.00
93180646	309.00	93180647	309.00	93180648	309.00	93180649	309.00	93180650	309.00	93180651	309.00
93180652	309.00	93180653	309.00	93180654	309.00	93180655	309.00	93180656	309.00	93180657	309.00
93180658	309.00	93180659	309.00	93180660	309.00	93180661	309.00	93180662	309.00	93180663	309.00
93180664	309.00	93180665	309.00	93180666	309.00	93180667	309.00	93180668	309.00	93180669	309.00
93180670	309.00	93180671	309.00	93180672	309.00	93180673	309.00	93180674	309.00	93180675	309.00
93180676	309.00	93180677	309.00	93180678	309.00	93180679	309.00	93180680	309.00	93180681	309.00
93180682	309.00	93180683	309.00	93180684	309.00	93180685	309.00	93180686	309.00	93180687	309.00
93180688	309.00	93180689	309.00	93180690	309.00	93180691	309.00	93180692	309.00	93180693	309.00
93180694	309.00	93180695	309.00	93180696	309.00	93180697	309.00	93180698	309.00	93180699	309.00
93180700	309.00	93180701	309.00	93180702	309.00	93180703	309.00	93180704	309.00	93180705	309.00
93180706	309.00	93180707	309.00	93180708	309.00	93180709	309.00	93180710	309.00	93180711	309.00
93180712	309.00	93180713	309.00	93180714	309.00	93180715	309.00	93180716	309.00	93180717	309.00
93180718	309.00	93180719	309.00	93180720	309.00	93180721	309.00	93180722	309.00	93180723	309.00
93180724	309.00	93180725	309.00	93180726	309.00	93180727	309.00	93180728	309.00	93180729	309.00
93180730	309.00	93180731	309.00	93180732	309.00	93180733	309.00				

Total Parcels: 286
Total Assessment Amount: 289,402.20

July 24, 2017

Prepared and

Submitted by: L. Bonkowski

Approved by: P. Cook

LB
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

August 3-4 ACWA Region 1 Mt. Tam Watershed Tour, Oakland

John Withers

July 28 Southern California Water Committee Quarterly Luncheon

Douglas Reinhart

July 18 Tour of MWRP for City of Newport Beach
July 27 Monthly Discussion of District Activities with the General Manager
July 28 Southern California Water Committee Quarterly Luncheon

Mary Aileen Matheis

July 27 Monthly Discussion of District Activities with the General Manager
July 28 Southern California Water Committee Quarterly Luncheon

RECOMMENDATION:

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

LIST OF EXHIBITS:

None.

July 24, 2017

Prepared and

Submitted by: L. Bonkowski *LB*

Approved by: P. Cook *PC*

CONSENT CALENDAR

MINUTES OF BOARD MEETINGS

SUMMARY:

Provided are the minutes of the July 7, 2017 Adjourned Regular Board Meeting and July 10, 2017 Board Meeting for approval.

FISCAL IMPACTS:

None.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

Not applicable.

RECOMMENDATION:

THAT THE MINUTES OF THE JULY 7, 2017 ADJOURNED REGULAR BOARD MEETING AND THE JULY 10, 2017 BOARD MEETING BE APPROVED AS PRESENTED.

LIST OF EXHIBITS:

Exhibit "A" –July 7, 2017 Minutes of Adjourned Regular Board Meeting

Exhibit "A" –July 10, 2017 Minutes of Board Meeting

EXHIBIT "A"

MINUTES OF ADJOURNED REGULAR MEETING – JULY 7, 2017

The adjourned regular meeting of the Board of Directors of the Irvine Ranch Water District (IRWD) was called to order at 9:45 a.m. by President Reinhart on July 7, 2017 at the Community Room, 15500 Sand Canyon Avenue, Irvine, California.

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

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Finance Clary, Executive Director of Water Policy Weghorst, Executive Director of Operations Shields, Executive Director of Engineering and Water Quality Burton, Director of Treasury and Risk Management Jacobson, Director of Water Resources Sanchez, Director of Public Affairs Beeman, Director of Administrative Services Mossbarger, Director of Human Resources Roney, Director of Water Operations Roberts, Director of Maintenance Drake, Director of Recycling Operations Zepeda, Secretary Bonkowski, Assistant Secretary Swan, Legal Counsel Smith, Government Relations Officer Compton, and Mr. Bruce Newell.

Written and Oral Communications: None.

Items too later to be agendized: None.

DRAFT IRWD 2017 GOALS AND TARGET ACTIVITIES

General Manager Cook reported that the foundational documents, the IRWD Mission, Vision and Values Statement and the IRWD Strategic Objectives, are provided in the package and asked if the Board wished to discuss or make recommendations for refining these documents. Mr. Cook said that the IRWD Management Team meets monthly to update the IRWD Goals and Target Activities report and that changes were noted in a track-change format. The Board had no changes or recommendations.

SYPHON RESERVOIR EXPANSION ANALYSIS

Using a PowerPoint presentation, Principle Engineer Akiyoshi provided an analysis of the Syphon Reservoir quantifying the cost effects of the project relative to reduced purchases of untreated imported water from Metropolitan Water District and reduced sewage diversions to the Orange County Sanitation District, particularly during wet weather events.

Mr. Akiyoshi said that the District purchased Syphon Reservoir in January 2010 and that the Syphon Reservoir Expansion Feasibility Study and associated constructability analysis was completed in August 2012. The reservoir was integrated into the recycled water system in October 2014. He said that IRWD's sewage projections were calibrated in 2016 and presented to the Board.

Mr. Akiyoshi said that the current Syphon Reservoir expansion analysis was conducted with several baseline assumptions. He said that this focuses the decision-making process on Syphon Reservoir while keeping options open for future projects, interagency agreements, and additional analyses. For planning purposes only, the assumptions used included: 1) artificially constrain MWRP flows to 28 million gallons per day; 2) perform a sensitivity analysis for future recycled water demands, and 3) assume no grant funding even though IRWD continues to pursue funding for this project.

Mr. Akiyoshi reviewed the seasonal storage concepts stating that the expansion of Syphon Reservoir would balance IRWD's sewage flows with annual variations in recycled demands, minimize purchasing Metropolitan Water District untreated water during peak summer seasons, and optimize excess sewage disposal at Orange County Sanitation District (OCSD) and South Orange County Wastewater Authority outfall. He further said that the expansion of the Syphon Reservoir aligns with the Strategic Objectives of the District and is economically beneficial to IRWD and its customers.

Mr. Akiyoshi summarized that the Syphon Reservoir expansion would: 1) increase IRWD's independence from imported water purchases, 2) optimize the use of recycled water, 3) minimize sewerage flows to OCSD and other disposal methods, and 4) sustain Michelson Water Recycling Plant's biosolids operations.

Mr. Akiyoshi then reviewed the Green Acres Project (GAP) disposal alternative. He provided an overview of this system which currently handles up to 8 million gallons per day. He said that the disposal system would send 5,000 acre feet per year to GAP, and consists of a large diameter pipeline and a new pump station.

Director Swan said that he did not wish to move forward until other options are explored and following focus group results. Director LaMar made a motion to approve the item as recommended by staff which was seconded by Director Withers. Prior to voting, Director Matheis commented on the importance of public outreach. In response to Director Matheis' comment, Director Withers explained that the project will be vetted during the environmental process where project alternatives will also be explored. Director Swan said he would like to offer a substitute motion to the pending motion to include funding for community outreach as well as to study alternatives for this project. Director Matheis seconded the substitute motion. The substitute motion failed passage. President Reinhart said that this item was reviewed by the Engineering and Operations Committee, and they approved the item as recommended. The motion by LaMar, seconded by Withers was carried by a 4-1 vote (Matheis, Withers, Reinhart and LaMar voting aye, and Swan voting no), AND THE BOARD APPROVED AN EXPENDITURE AUTHORIZATION IN THE AMOUNT OF \$2,500,000 FOR THE SYPHON RESERVOIR EXPANSION, PROJECT 03808, FOR THE ENVIRONMENTAL DOCUMENTATION AND SUPPORTING ENGINEERING SERVICES. General Manager Cook said that the Board will be kept abreast of this project as it progresses. He further thanked Mr. Akiyoshi for his efforts on this project. Director Matheis left at 11:35 a.m.

ISSUE-SPECIFIC STRATEGIC PLANNING TOPIC: SHARING WATER SUPPLY RELIABILITY FROM THE IRWD WATER BANKING PROJECTS

General Manager Cook reported that issue-specific strategic planning focuses on a single issue or decision before an organization. It consists of a four-step process, which includes discussions on assumptions, organizational direction and actions. The four steps in the planning process are:

1) review the hypothetical scenario and environmental assumptions, 2) establish the strategic policy principle that would lead to a desirable outcome for IRWD, if the scenario becomes reality, 3) agree on issue-specific objectives, and 4) discuss and decide on implementation strategies for achieving the agreed-on objectives. Mr. Cook reviewed a hypothetical scenario/environmental assumption in which IRWD, in partnership with MWDOC, establishes a choice program for regional emergency water supply reliability utilizing capacity in IRWD's Water Banking Program in Kern County.

Executive Director of Water Policy Weghorst reviewed options for sharing supply reliability which include: 1) long-term lease for emergency supply, 2) annual option for emergency supply, and 3) emergency water supply if it is available. Mr. Weghorst reviewed positioning IRWD for the desired outcome; discussed issue-specific strategic objectives; and questions to consider. President Reinhart suggested that staff present options to the Supply Reliability Programs Committee, and then bring it back to the Board. Staff was also asked to contact MWDOC to advise that staff is refining this program and will be scheduling an Ad Hoc Committee meeting to discuss the topic. In response to Director Weghorst's comment that he ask legal counsel to investigate the District's authority to sell surplus water to other agencies, Mr. Alfred Smith presented his findings noting that the water must be deemed the voluntary transfer of surplus water, in the best interests of the District, consistent with the laws of import and export, and consistent with the duplication of service laws. The legal authority for the transfers are further supported by legislative policy set forth in the California Water Code directing agencies to encourage the voluntary transfer of water.

ADJOURNMENT

There being no further discussion, President Reinhart adjourned the meeting.

APPROVED and SIGNED this 24th day of July, 2017.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Alfred Smith, Legal Counsel – Nossaman LLP

EXHIBIT "B"

MINUTES OF REGULAR MEETING – JULY 10, 2017

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 Reinhart on July 10, 2017 in the District office, 15600 Sand Canyon Avenue, Irvine, California.

Directors Present: Swan, Matheis, LaMar, Reinhart and Withers (arrived at 5:15 p.m.).

Directors Absent: None.

Also Present: General Manager Cook, Executive Director of Water Policy Weghorst, Executive Director of Operations Sheilds, Executive Director of Engineering and Water Quality Burton, Executive Director of Finance and Administration Clary, Director of Treasury and Risk Management Jacobson, Director of Administrative Services Mossbarger, Director of Water Resources Sanchez, Director of Recycling Operations Zepeda, Director of Public Affairs Beeman, Director of Water Operations Roberts, Director of Human Resources Roney, Legal Counsel Smith, Legal Counsel Casey, Secretary Bonkowski, Assistant Secretary Swan, Principle Engineer Akiyoshi, Principle Engineer Cortez, Risk Manager Shinbashi, Recycled Water Development Manager Tettermer, Asset System Manager Meserlian, Mr. Bruce Newell, and Mr. Jeff Neemann.

WRITTEN AND ORAL COMMUNICATIONS: None.

ITEMS TOO LATE TO BE AGENDIZED: None.

CONSENT CALENDAR

Director Matheis asked that No. 5, 2017 LEGISLATIVE AND REGULATORY UPDATE be moved to the Action Calendar to receive an update on several bills. There being no objections, this item was moved accordingly. On MOTION by Matheis, seconded and carried (Matheis, Reinhart, Swan, and LaMar voting aye, and Withers absent), CONSENT CALENDAR ITEM NO. 3, 4, 6 AND 7 WERE APPROVED AS FOLLOWS:

3. 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, Peer Swan, Douglas Reinhart and John Withers, as described.

4. MINUTES OF REGULAR BOARD MEETING

Recommendation: That the minutes of the June 26, 2017 Regular Board Meeting be approved as presented.

CONSENT CALENDAR (CONTINUED)

6. ELECTION OF THE CALIFORNIA SPECIAL DISTRICTS ASSOCIATION SOUTHERN NETWORK SEAT C BOARD MEMBER

Recommendation: That the Board review the candidates for the Southern Network Seat C representative on the California Special Districts Association (CSDA) Board of Directors, and authorize the District to cast its ballot in favor of Costa Mesa Sanitary District Director Arlene Schafer and submit it to CSDA no later than the August 4, 2017 deadline.

7. LUMP SUM PAYMENT OPTION FOR EMPLOYER CONTRIBUTIONS FOR FY 2017-18 TO THE CALIFORNIA PUBLIC EMPLOYEES RETIREMENT SYSTEM

Recommendation: That the Board approve the lump sum payment for employer contributions to the California Public Employees Retirement System (CalPERS) by making a one-time contribution of \$3,844,111 for the District's FY 2017-18 employer contribution.

ACTION CALENDAR

2017 LEGISLATIVE AND REGULATORY UPDATE

Government Relations Officer Compton provided an update on AB 574 (Quirk, D-Hayward) which will establish a statutory deadline for the State Board to develop a policy and sequential regulations for potable reuse consistent with the report provided to the Legislature. Ms. Compton said that AB 574 was heard in the Senate Environmental Quality Committee on July 5, 2017 and has been referred to the Senate Natural Resources Committee.

Ms. Compton updated AB 1000 (Friedman) which she said was gutted and amended again. The current version of the bill seeks to prohibit a transferor of water from using a water conveyance facility that has unused capacity to transfer water from a groundwater basin underlying desert, as defined, to outside the groundwater basin unless the State Lands Commission finds that there will be no adverse effect on natural or cultural resources. She said it is targeted at the Cadiz Valley Water Conservation, Recovery and Storage Project. AB 1000 has been set for hearing in the Senate Natural Resources Committee on July 11, 2017. Mr. Cook said that staff is recommending that the Board continue with a "watch" position on this bill.

Ms. Compton reviewed AB 1667 (Friedman) which would have required an urban water supplier to install dedicated irrigation meters for various types of properties within its service area. Specifically, the bill would have required that an urban water supplier install dedicated irrigation meters before set deadlines. Director Withers arrived at 5:15 p.m.

Ms. Compton briefly reviewed various bills, including SB 252 (Dodd)-Napa), which would require a city or county overlying a critically overdrafted groundwater basin to establish a well permitting process for new groundwater wells. Ms. Compton said that SB 252 would have required the District to complete a second evaluation and undergo a second public notice, comment period and public hearing for any new wells associated with its water banking activities. She said that the Water Resources and Policy Committee recommends the Board consider revising the District's position as a result of an amendment made to the bill from a "seek amendments" position to a "watch" position. SB 252 was heard in the Assembly Water, Parks and Wild Life Committee and

passed. It has been referred to the Assembly Local Government Committee and is set for hearing in that committee on July 12.

Following discussion, on MOTION by Matheis, seconded by Swan, and unanimously carried, THE BOARD REAFFIRMED AN “OPPOSE” POSITION ON AB 1667 (FRIEDMAN) AND AMENDED IRWD’S POSITION TO “WATCH” ON SB 252 (DODD) AS A RESULT OF THE RECENT AMENDMENT.

INFORMATION SERVICES PROFESSIONAL SERVICES SUPPORT CONTRACT RENEWALS

Director of Administration Services Mossbarger reported that the District requires additional resources to supplement existing staff to support and operate the Oracle Financial and Customer Care and Billing (CC&B) systems. Mr. Mossbarger said that the providers include Infosys, who was the CC&B systems integrator, to provide managed support services and Outsource Technical to provide on-call programming, analysis, project management, and networking services. He said that staff has added an additional outside provider, Skoruz Technologies, experienced in providing on-call programming, analysis and project management services. Staff has identified the need to continue these support services through Fiscal Year 2018. In addition, staff has identified specific one-time CC&B-related projects for completion by Infosys, who has provided IRWD with managed support services for the Oracle CC&B system since August 2014. It provides highly skilled, experienced, and reliable resources that are very familiar with IRWD’s systems, standards, and staff. Infosys has proven that it can provide additional resources to handle urgent projects with tight deadlines.

Director Swan reported that this item was reviewed and approved by the Finance and Personnel Committee on July 6, 2017. On MOTION by Swan, seconded and unanimously carried, THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE PROFESSIONAL SERVICES AGREEMENTS FOR THE PERIOD JULY 1, 2017 TO JUNE 30, 2018 WITH INFOSYS LTD. FOR \$300,000 FOR MANAGED SUPPORT SERVICES AND ONE-TIME PROJECTS; OUTSOURCE TECHNICAL FOR \$225,000 FOR ON-CALL PROGRAMMING, ANALYSIS, PROJECT MANAGEMENT, AND NETWORKING SERVICES; AND SKORUZ TECHNOLOGIES FOR \$225,000 FOR ON-CALL PROGRAMMING, ANALYSIS, AND PROJECT MANAGEMENT SERVICES.

RECYCLED WATER USE SITE INSPECTION AND TESTING CONSULTANT SELECTIONS

General Manager Cook reported that the District is required by the State Water Resources Control Board, Division of Drinking Water to regularly inspect and test for cross connections at many recycled water use sites throughout its service area. Mr. Cook said that inspections and tests are performed to assure compliance with regulatory requirements and best management practices. He said that over the past two years, IRWD has contracted with two consulting firms to augment staff’s efforts to complete inspection and testing work in a timely manner. Anticipating the need to continue using consulting services over the next two years, staff solicited proposals from firms to conduct field inspections and cross-connection testing on an on-call basis.

Recycled Water Development Manager Tettermer said that the District currently serves recycled water to approximately 5,700 sites that vary in size and complexity. Some sites are smaller irrigation sites such as medians and parkways that use only recycled water, while others are larger,

more complex irrigation sites, such as golf courses and homeowners' associations that also use potable water. He said that the District also serves approximately 645 single-family lots, several industrial customers and over 80 dual-plumbed commercial buildings where recycled water is used for flushing toilets and urinals, as well as in cooling towers.

Mr. Tetterer said that the type of recycled water use site determines the regulatory requirements for conducting visual inspections and periodic cross-connection tests. The tests confirm that systems are properly identified and that recycled water systems are not connected to a potable water system. Of the nearly 5,700 IRWD recycled water use sites, approximately 720 sites are homeowners' associations that are required to have inspections and cross-connection tests conducted annually.

Mr. Tetterer said that over the past two years, the District retained John Robinson Consulting and Real Water Inc. to augment staff's efforts to perform recycled water use site inspections and tests. In FY 2016-2017, these firms provided services at approximately 1,700 sites at an average cost of \$236 per site. He said that staff issued a Request for Proposal to John Robinson Consulting, Inc., Real Water Consultants and Aegis Engineering Management to perform recycled water site inspection and testing at 13 types of recycled water use sites in IRWD's service area. He said that based on the anticipated workload and qualifications of the firms, staff recommends the selection of Real Water Consultants and Aegis Engineering Management to assist with recycled water use site inspections and tests.

Director Matheis said that this item was reviewed and approved by the Water Resources Policy and Communications Committee on July 6, 2017. Following discussion, Director Swan asked staff to provide him with additional information on site inspections. On MOTION by Matheis, seconded and unanimously carried, **THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE PROFESSIONAL SERVICE AGREEMENTS WITH REAL WATER CONSULTANTS AND AEGIS ENGINEERING MANAGEMENT, EACH IN AN AMOUNT NOT TO EXCEED \$350,000, TO PROVIDE ON-CALL RECYCLED WATER USE SITE FIELD INSPECTION AND TESTING SERVICES FOR A TWO-YEAR PERIOD.**

VARIANCE NO. 4 TO SYNERGY COMPANIES AGREEMENT FOR WATER-ENERGY GRANT-RELATED CUSTOMER PROGRAMS

In October 2015, the District was awarded a Water-Energy Grant from the California Department of Water Resources which provides funding for a program that offers customers the opportunity to upgrade their homes with efficient energy and water fixtures. Since January 2017, over 1,000 IRWD customers have registered to participate in the program so to continue providing funding for single-family customers and to extend the program to include multi-family customers, staff recommends a variance to the agreement. On MOTION by Withers, seconded and unanimously carried, **THE BOARD AUTHORIZED THE GENERAL MANAGER TO EXECUTE VARIANCE NO. 4 TO THE AGREEMENT FOR NON-CONSULTANT SERVICES BETWEEN IRWD AND SYNERGY COMPANIES IN THE AMOUNT OF \$950,000 TO CONTINUE PROVIDING FUNDING FOR SINGLE-FAMILY CUSTOMERS AND TO EXTEND THE PROGRAM TO INCLUDE MULTI-FAMILY CUSTOMERS, WHICH WILL BE FULLY REIMBURSED THROUGH THE CALIFORNIA DEPARTMENT OF WATER RESOURCES WATER-ENERGY GRANT.**

NEWPORT COAST LIFT STATION REHABILITATION BUDGET INCREASE,
CONSTRUCTION AWARD AND CONSULTANT SELECTION

General Manager Cook reported that the Newport Coast Lift Station Rehabilitation project will recoat the lift station wet well, construct a building to house electrical cabinets and an odor control system, construct a stairway into the lift station dry well and rehabilitate the original ductile iron force main. Mr. Cook said that this lift station has operated nearly 30 years and requires substantial rehabilitation.

The bid opening was held on June 20, 2017 with bids received from five contractors. Pacific Hydrotech Corporation (PHC) is the apparent low bidder with a bid amount of \$3,239,300. Staff solicited a proposal from GHD for construction phase engineering services and negotiated a fee in the amount of \$199,642.

Following discussion, staff will provide Director Swan with a final landscaping design rendering. On MOTION by Withers, seconded and unanimously carried, THE BOARD AUTHORIZED A BUDGET INCREASE IN THE AMOUNT OF \$703,300, FROM \$1,432,200 TO \$2,135,500, FOR PROJECT 05470, AND A BUDGET INCREASE IN THE AMOUNT OF \$595,400 FROM \$2,059,200 TO \$2,654,600, FOR PROJECT 06400; AUTHORIZED THE GENERAL MANAGER TO EXECUTE A CONSTRUCTION CONTRACT IN THE AMOUNT OF \$3,239,300 WITH PACIFIC HYDROTECH CORPORATION; AND AUTHORIZED THE GENERAL MANAGER TO EXECUTE A PROFESSIONAL SERVICES AGREEMENT WITH GHD FOR CONSTRUCTION PHASE SERVICES IN THE AMOUNT OF \$199,642 FOR THE NEWPORT COAST LIFT STATION REHABILITATION, PROJECTS 05470 AND 06400.

GENERAL MANAGER'S REPORT

Director of Public Affairs Beeman introduced Mr. John Fabris, the new Public Affairs Manager, who previously worked as Deputy Editor for the Orange County Register for 13 years.

DIRECTORS' COMMENTS

Director Matheis reported on her attendance at an ISDOC quarterly lunch meeting and a WACO monthly meeting.

Director Withers also reported on his attendance at the ISDOC quarterly meeting and noted that at an upcoming ISDOC Executive Committee meeting they will be reviewing funding inequities among the agencies as it appears that smaller agencies may be paying more than their fair share of costs. He said that Mr. Mike Dunbar will be speaking at this meeting to explain the history of how the fees were initially established. He said that this Wednesday he will be attending a LAFCO meeting where they will be selecting an Alternate Public Director, and that on Thursday, he will be attending an ACC-OC event.

Director LaMar reported on his attendance at a WACO monthly meeting and that on August 3, he will be attending an ACWA Region I meeting.

Director Swan reported on his attendance at a Newport Bay Watershed meeting, a Southern California Water Dialogue Committee meeting, a Newport Beach Chamber of Commerce meeting, and a WACO meeting.

Director Reinhart said he was unable to attend the MWDOC Workshop with MWD Directors, but did attend a SOCWA Board Meeting and a WACO monthly meeting.

IRWD's consultant Mr. Bruce Newell, reported that the Silverado School will reopen as a library, and updated the Board on his attendance at an Inter Canyon League meeting.

CLOSED SESSION

President Reinhart said that the following Closed Session would be held this evening.:

Closed Session: CONFERENCE WITH LEGAL COUNSEL RELATIVE TO EXISTING LITIGATION – Government Code Section 54956.9(d)(1) IRWD v. OCWD Case No. 30-2016-00858584-CU-WM-CJC).

OPEN SESSION

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

ADJOURNMENT

There being no further business, President Reinhart adjourned the meeting.

APPROVED and SIGNED this 24th day of July, 2017.

President, IRVINE RANCH WATER DISTRICT

Secretary IRVINE RANCH WATER DISTRICT

APPROVED AS TO FORM:

Alfred Smith, Legal Counsel – Nossaman LLP

July 24, 2017

Prepared by: J. Davis/T. Fournier

Submitted by: R. Jacobson/C. Clary

Approved by: Paul Cook

CONSENT CALENDAR

JUNE 2017 TREASURY REPORTS

SUMMARY:

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

- A. The Investment Summary Report for June 2017. This Investment Summary Report is in conformity with the 2017 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 June 30, 2017, as outlined in Exhibit "B".
- C. The Summary of Payroll ACH payments in the total amount of \$1,725,165, as outlined in Exhibit "C".
- D. The June 30, 2017 Disbursement Summary of warrants 377651 through 378595, wire transfers, Workers' Compensation distributions, payroll withholding distributions, and voided checks in the total amount of \$51,972,588 as outlined in Exhibit "D".
- E. The Disclosure Report of Reimbursements to Board Members and Staff for June 2017, detailing payments or reimbursements for individual charges of \$100.00 or more per transaction, as outlined in Exhibit "E".

FISCAL IMPACTS:

As of June 30, 2017, the book value of the investment portfolio was \$388,995,018, with a 1.04% rate of return and a market value of \$387,417,644. Based on the District's June 30, 2017 quarterly real estate investment rate of return of 14.59%, the weighted average return for the fixed income and real estate investments was 3.17%.

As of June 30, 2017, the total notional amount of the interest rate swap portfolio was \$130 million of fixed payer swaps. Cash accrual in June from all swaps was negative \$506,453.

Payroll ACH payments totaled \$1,725,165, and wire transfers, all other ACH payments, and checks issued for debt service, accounts payable, payroll, and water purchases for June totaled \$51,972,588.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

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

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE TREASURER'S INVESTMENT SUMMARY REPORT, THE MONTHLY INTEREST RATE SWAP SUMMARY FOR JUNE 2017, AND DISCLOSURE REPORT OF REIMBURSEMENTS TO BOARD MEMBERS AND STAFF; APPROVE THE JUNE 2017 SUMMARY OF PAYROLL ACH PAYMENTS IN THE TOTAL AMOUNT OF \$1,725,165 AND APPROVE THE JUNE 2017 ACCOUNTS PAYABLE DISBURSEMENT SUMMARY OF WARRANTS 377651 THROUGH 378595, WORKERS' COMPENSATION DISTRIBUTIONS, WIRE TRANSFERS, PAYROLL WITHHOLDING DISTRIBUTIONS AND VOIDED CHECKS IN THE TOTAL AMOUNT OF \$51,972,588.

LIST OF EXHIBITS:

Exhibit "A" – Investment Summary Report

Exhibit "B" – Monthly Interest Rate Swap Summary

Exhibit "C" – Monthly Payroll ACH Summary

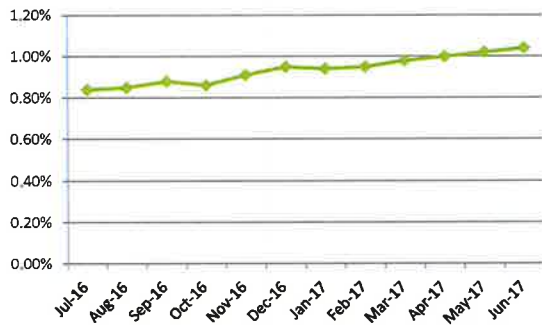
Exhibit "D" – Monthly Summary of District Disbursements

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

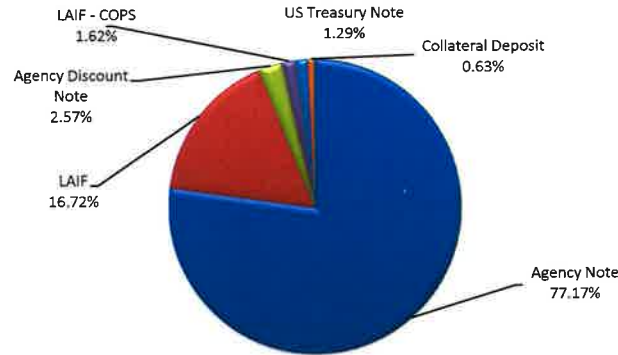
Exhibit "A"

Irvine Ranch Water District Investment Portfolio Summary June 2017

Monthly Fixed Income Yield



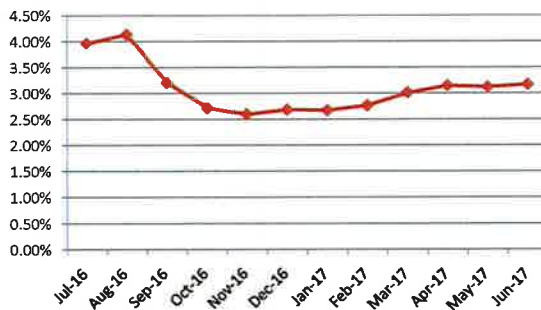
Portfolio Distribution



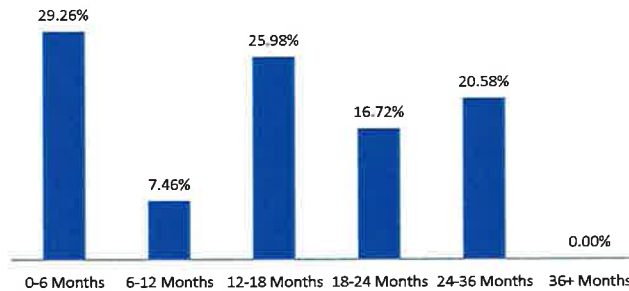
Investment Summary

Type	PAR	Book Value	Market Value
Agency Note	300,000,000	300,241,393	298,745,540
LAIF	65,000,000	65,000,000	64,931,144
Agency Discount Note	10,000,000	9,996,021	9,996,250
LAIF - COPS	6,300,000	6,300,000	6,293,326
US Treasury Note	5,000,000	5,018,769	5,012,550
Collateral Deposit	2,438,835	2,438,835	2,438,835
Grand Total	388,738,835	388,995,018	387,417,644

**Weighted Average Return
Including Real Estate Portfolio**



Maturity Distribution



Top Issuers

Issuer	PAR	% Portfolio
Fed Home Loan Bank	121,000,000	31.13%
Fed Home Loan Mortgage Corp	84,000,000	21.60%
State of California Treasury - LAIF	71,300,000	18.34%
Fed Farm Credit Bank	55,000,000	14.15%
Fed Natl Mortgage Assoc	50,000,000	12.86%
US Treasury Note	5,000,000	1.29%
Citi-Group Collateral	2,438,835	0.63%
Merrill Lynch Collateral	0	0.00%
Grand Total	388,738,835	100.00%

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

06/30/17

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 6/30/2017	UNREALIZED ⁽²⁾ GAIN/(LOSS)
03/06/17			07/01/17		LAIF	State of California Tsy.	\$65,000,000		0.980%	\$65,000,000.00	\$65,000,000.00	64,931,143.62	(68,856.39)
03/06/17			07/01/17		LAIF - COPS	State of California Tsy.	6,300,000		0.980%	\$6,300,000.00	\$6,300,000.00	6,293,326.23	(6,673.77)
12/09/16	N/A	N/A	07/07/17	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	0.647%	0.658%	4,981,041.65	4,999,458.33	4,999,450.00	(8.33)
06/29/17	N/A	N/A	07/26/17	NR	FHLB - Discount Note	Fed Home Loan Bank	5,000,000	0.990%	1.005%	4,996,287.50	4,996,562.50	4,996,800.00	237.50
11/05/15	N/A	N/A	08/28/17	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	0.750%	0.800%	4,995,500.00	4,999,605.74	4,997,250.00	(2,355.74)
09/16/15	N/A	N/A	09/15/17	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.900%	0.915%	4,998,500.00	4,999,843.84	4,999,650.00	(193.84)
01/30/17	N/A	N/A	10/31/17	NR	US Treasury - Note	US Treasury	5,000,000	1.875%	0.743%	5,042,154.40	5,018,769.48	5,012,550.00	(6,219.48)
12/08/16	N/A	N/A	11/21/17	AAA/NR/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.750%	0.866%	9,989,000.00	9,995,479.89	9,985,300.00	(10,179.89)
12/18/15	Continuous after	12/13/13	12/12/17	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.820%	1.132%	4,969,500.00	4,993,100.69	4,994,200.00	1,099.31
04/22/16	N/A	N/A	01/29/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	4,000,000	0.850%	0.856%	3,999,600.00	3,999,868.93	3,991,960.00	(7,908.93)
03/01/16	Quarterly	05/26/16	02/26/18	NR/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.050%	5,000,000.00	5,000,000.00	4,991,550.00	(8,450.00)
03/23/16	N/A	N/A	03/23/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.100%	0.908%	5,019,000.00	5,006,897.26	4,989,450.00	(17,447.26)
04/07/16	N/A	N/A	04/09/18	NA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.750%	0.790%	4,998,459.02	4,998,459.02	4,981,250.00	(17,209.02)
05/16/16	N/A	N/A	05/16/18	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.750%	0.801%	4,995,000.00	4,997,815.07	4,982,050.00	(15,765.07)
05/13/16	N/A	N/A	05/21/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.875%	0.768%	5,010,700.00	5,004,697.56	4,982,900.00	(21,797.56)
05/24/16	N/A	N/A	06/08/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	11,000,000	1.250%	0.995%	11,056,540.00	11,025,955.28	10,995,930.00	(30,025.28)
06/29/16	One Time	12/29/16	06/29/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.000%	0.679%	10,016,000.00	10,007,956.16	9,971,800.00	(36,156.16)
09/01/16	One Time	07/27/17	07/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	0.750%	0.928%	4,983,250.00	4,990,563.04	4,972,200.00	(18,363.04)
12/21/16	One Time	08/15/17	08/15/18	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.000%	1.245%	4,980,000.00	4,986,378.74	4,981,200.00	(5,178.74)
09/01/16	One Time	02/28/17	08/28/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.000%	1.000%	5,000,000.00	5,000,000.00	4,980,150.00	(19,850.00)
09/01/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.125%	0.916%	5,021,000.00	5,012,436.07	4,984,600.00	(27,836.07)
12/28/16	NA	NA	09/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.125%	1.225%	4,991,500.00	4,994,016.00	4,984,600.00	(9,416.00)
10/12/16	N/A	N/A	09/27/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	0.900%	0.952%	9,990,000.00	9,993,384.62	9,955,000.00	(38,384.62)
10/12/16	N/A	N/A	09/28/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	0.880%	0.942%	4,994,000.00	4,996,027.93	4,975,550.00	(20,477.93)
09/01/16	NA	NA	10/01/18	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.030%	0.925%	5,010,750.00	5,006,464.14	4,983,450.00	(23,014.14)
10/12/16	One Time	04/12/17	10/12/18	Aaa/NR/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.000%	1.041%	9,992,000.00	9,994,652.05	9,938,700.00	(55,952.05)
10/12/16	N/A	N/A	11/27/18	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	10,000,000	1.625%	0.956%	10,140,360.00	10,096,587.94	10,034,200.00	(62,387.94)
12/21/16	N/A	N/A	12/05/18	Aaa/AA+/AAA	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.100%	1.319%	4,978,900.00	5,058,129.86	4,981,800.00	(76,329.86)
09/01/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	0.941%	5,091,300.00	5,030,761.12	5,026,950.00	(3,811.12)
12/27/16	NA	NA	12/14/18	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.750%	1.320%	5,041,536.20	4,984,573.95	5,026,950.00	42,376.05
09/01/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.009%	4,993,000.00	4,995,407.49	4,961,500.00	(33,907.49)
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.035%	4,990,500.00	4,993,283.29	4,961,500.00	(31,783.29)
10/26/16	One Time	07/30/18	01/30/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.950%	1.040%	4,990,000.00	4,992,929.78	4,961,500.00	(31,429.78)
10/12/16	Continuous after	02/12/18	02/12/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.050%	1.093%	9,990,000.00	9,992,837.05	9,934,000.00	(58,837.05)
09/01/16	NA	NA	03/08/19	Aaa/AA+/AAA	FHLB - Note	Fed Home Loan Bank	5,000,000	1.500%	0.964%	5,066,500.00	5,044,550.65	5,006,150.00	(38,400.65)
10/12/16	One Time	03/29/17	03/29/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.050%	4,999,950.00	4,999,963.47	4,962,300.00	(37,663.47)
10/12/16	N/A	N/A	04/15/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	10,000,000	1.125%	0.992%	10,032,800.00	10,024,125.03	9,955,100.00	(69,025.03)
10/31/16	One Time	04/26/17	04/26/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.050%	1.060%	4,998,750.00	4,999,083.52	4,963,150.00	(35,933.52)
09/01/16	One Time	08/28/17	05/28/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.030%	1.048%	4,997,550.00	4,998,293.09	4,945,300.00	(52,993.09)

IRVINE RANCH WATER DISTRICT
INVESTMENT SUMMARY REPORT

06/30/17

SETTLMT	Call Schedule	Initial Call	Maturity Date	Rating	INVESTMENT TYPE	INSTITUTION / ISSUER	PAR Amount	COUPON DISCOUNT	YIELD	ORIGINAL COST	CARRY VALUE	MARKET VALUE ⁽¹⁾ 6/30/2017	UNREALIZED ⁽²⁾ GAIN/(LOSS)
09/01/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	0.987%	5,087,400.00	5,061,334.84	5,017,000.00	(44,334.84)
10/12/16	NA	NA	06/14/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.625%	1.103%	5,068,515.88	5,051,509.89	5,017,000.00	(34,509.89)
10/12/16	NA	NA	07/19/19	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	0.875%	1.098%	4,969,652.90	4,976,924.19	4,940,400.00	(36,524.19)
09/01/16	One Time	01/26/17	07/26/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.180%	4,995,700.00	4,996,931.47	4,954,600.00	(42,331.47)
09/01/16	One Time	08/28/17	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.150%	1.160%	4,998,500.00	4,998,916.59	4,925,950.00	(72,966.59)
09/01/16	One Time	02/28/17	08/28/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.132%	4,999,000.00	4,999,277.73	4,960,000.00	(39,277.73)
09/28/16	Quarterly	03/09/17	09/09/19	Aaa/AA+/AAA	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.125%	1.142%	4,997,500.00	4,998,139.48	4,952,550.00	(45,589.48)
09/28/16	Continuous after	12/27/16	09/27/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.250%	1.189%	5,001,500.00	5,001,121.57	4,948,950.00	(52,171.57)
10/12/16	Continuous after	10/03/17	10/03/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	10,000,000	1.125%	1.160%	9,989,780.00	9,992,057.38	9,897,900.00	(94,157.38)
10/12/16	Continuous after	10/11/17	10/11/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	10,000,000	1.120%	1.205%	9,975,000.00	9,980,530.16	9,885,900.00	(94,630.16)
11/08/16	Quarterly	05/08/17	11/08/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.250%	1.245%	5,000,750.00	5,000,589.04	4,956,350.00	(44,239.04)
11/28/16	NA	NA	11/15/19	Aaa/AA+/NR	FHLB - Note	Fed Home Loan Bank	5,000,000	1.375%	1.440%	4,990,550.00	4,992,427.77	4,984,650.00	(7,777.77)
11/28/16	Quarterly	05/25/17	11/25/19	Aaa/AA+/NR	FNMA - Note	Fed Natl Mortgage Assoc	5,000,000	1.400%	1.503%	4,985,000.00	4,987,953.30	4,976,750.00	(11,203.30)
12/12/16	NA	NA	12/12/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.450%	1.440%	5,001,450.00	5,001,183.59	4,989,850.00	(11,333.59)
12/21/16	NA	NA	12/19/19	Aaa/AA+/NR	FFCB - Note	Fed Farm Credit Bank	5,000,000	1.500%	1.621%	4,982,350.00	4,985,450.46	4,994,550.00	9,099.54
05/12/17	One Time	10/27/17	04/27/20	Aaa/AA+/AAA	FHLMC - Note	Fed Home Loan Mortgage Corp	5,000,000	1.750%	1.729%	5,003,000.00	5,002,917.51	5,004,000.00	1,082.49
SUB-TOTAL							<u>\$386,300,000</u>			<u>\$386,684,118.53</u>	<u>\$386,556,183.55</u>	<u>\$384,978,809.84</u>	<u>(\$1,577,373.71)</u>
RESTRICTED CASH (Swap Collateral Deposits)⁽⁴⁾													
04/01/17					Collateral Deposit Collateral Deposit	Citi-Group Merrill Lynch	\$2,438,835		1.160%	\$2,438,834.53	\$2,438,834.53	2,438,834.53	
SUB-TOTAL							<u>\$2,438,835</u>			<u>\$2,438,834.53</u>	<u>\$2,438,834.53</u>	<u>\$2,438,834.53</u>	
TOTAL INVESTMENTS							<u>\$388,738,835</u>			<u>\$389,122,953.06</u>	<u>\$388,995,018.08</u>	<u>\$387,417,644.37</u>	
				June	Petty Cash Ck Balance	Bank of America				3,400.00 (29,713,543.50)			
										<u>\$359,412,809.56</u>			

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

Outstanding Variable Rate Debt	\$303,300,000
Net Outstanding Variable Rate Debt (Less \$130 million fixed-payer swaps)	\$173,300,000
Investment Balance:	\$359,412,810
Investment to Variable Rate Debt Ratio:	207%
Portfolio - Average Number of Days To Maturity ⁽⁴⁾	428

	Investment Portfolio	Real Estate ⁽³⁾ Portfolio	Weighted Avg. Return
June	1.04%	14.59%	3.17%
May	1.02%	14.25%	3.13%
Change	0.02%		0.04%

This Investment Summary Report is in conformity with the 2017 Investment Policy and provides sufficient liquidity to meet the next six months estimated expenditures.
 *S - Step up

Irvine Ranch Water District
 Summary of Real Estate
 6/30/2017

	<u>ACQUISITION DATE</u>	<u>PROPERTY TYPE</u>	<u>OWNERSHIP INTEREST</u>	<u>ORIGINAL COST</u>	<u>ESTIMATED MARKET VALUE 6/30/2017</u>	<u>RATE OF RETURN QUARTER ENDED 6/30/2017</u>
Sycamore Canyon	Dec-92	Apartments	Fee Simple	\$ 43,550,810	\$ 147,507,750	19.05%
Wood Canyon Villas	Jun-91	Apartments	Limited Partner	\$ 6,000,000	\$ 28,934,076	8.57%
ITC (230 Commerce)	Jul-03	Office Building	Fee Simple	\$ 5,739,845	\$ 9,571,680	9.09%
Waterworks Business Pk.	Nov-08	Research & Dev.	Fee Simple	\$ 8,630,577	\$ 7,803,000	5.94%
Sand Canyon Professional Center	Jul-12	Medical Office	Fee Simple	\$ 8,648,594	\$ 10,820,160	8.59%
				<u>\$ 72,569,826</u>	<u>\$ 204,636,666</u>	<u>14.59%</u>

IRVINE RANCH WATER DISTRICT
SUMMARY OF MATURITIES

06/30/17

DATE	TOTAL	%	LAIF	Agency Notes	Agency Discount Notes	Collateral Deposit	US Treasury
06/17	\$71,300,000	18.34%	\$71,300,000				
07/17	10,000,000	2.57%			10,000,000		
08/17	5,000,000	1.29%		5,000,000			
09/17	5,000,000	1.29%		5,000,000			
10/17	5,000,000	1.29%					5,000,000
11/17	12,438,835	3.20%		10,000,000		2,438,835	
12/17	5,000,000	1.29%		5,000,000			
01/18	4,000,000	1.03%		4,000,000			
02/18	5,000,000	1.29%		5,000,000			
03/18	5,000,000	1.29%		5,000,000			
04/18	5,000,000	1.29%		5,000,000			
05/18	10,000,000	2.57%		10,000,000			
SUB-TOTAL	\$142,738,835	36.72%	\$71,300,000	\$54,000,000	\$10,000,000	\$2,438,835	\$5,000,000
13 Months - 3 YEARS							
6/01/18 - 7/31/18	26,000,000	6.69%		26,000,000			
8/01/18 - 10/31/2018	50,000,000	12.86%		50,000,000			
11/01/18 - 1/31/2019	25,000,000	6.43%		25,000,000			
2/01/19 - 4/30/2019	50,000,000	12.86%		50,000,000			
4/01/2019 - 7/31/19	25,000,000	6.43%		25,000,000			
8/01/19 - 10/31/2019	40,000,000	10.29%		40,000,000			
11/01/2019 - 1/31/2020	25,000,000	6.43%		25,000,000			
02/01/2020 - 04/30/2020	5,000,000	1.29%		5,000,000			
	-						
	-						
TOTALS	\$388,738,835	100.00%	\$71,300,000	\$300,000,000	\$10,000,000	\$2,438,835	\$5,000,000

% OF PORTFOLIO

18.34%

77.17%

2.57%

0.63%

1.29%

IRVINE RANCH WATER DISTRICT INVESTMENT SUMMARY REPORT
INVESTMENT ACTIVITY
Jun-17

MATURITIES/SALES/CALLS

PURCHASES

DATE	SECURITY TYPE	PAR	YIELD	Settlement Date	Maturity Date	SECURITY TYPE	PAR	YIELD TO MATURITY
6/30/2017	FHLB - Note	\$5,000,000	0.61%	6/29/2017	7/26/2017	FHLB - Discount Note	\$5,000,000	1.00%

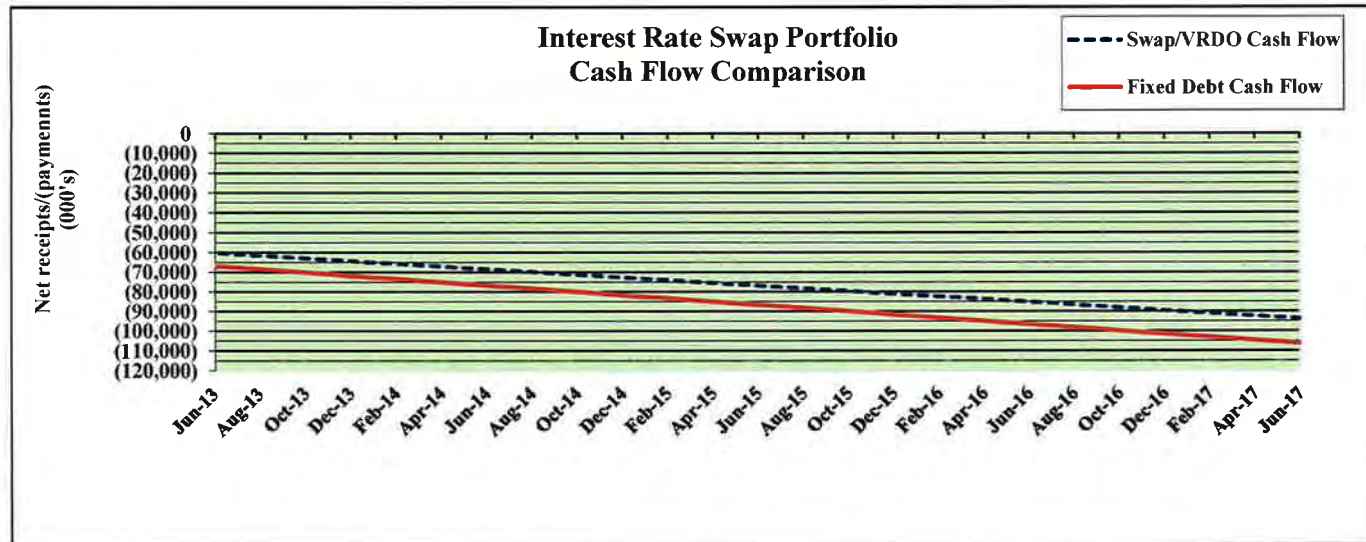
**IRVINE RANCH WATER DISTRICT
INTEREST RATE SWAP MONTHLY SUMMARY REPORT - DETAIL
June 30, 2017**

LIBOR Avg %	Prior Mo.	Current Mo.	12-Mo Avg
	1.01%	1.17%	0.75%

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	
Fixed Payer Swaps - By Effective Date														
6/4/2006	6/4/2019	1.9	ML	\$ 20,000,000	FXP	LIBOR	6.200%	(89,702)	(82,142)	\$ (1,096,116)	\$ (10,923,292)	\$ 18,230,619	\$ (1,769,381)	
6/4/2006	6/4/2019	1.9	CG	20,000,000	FXP	LIBOR	6.200%	(89,702)	(82,142)	(1,096,116)	(10,923,292)	18,230,851	(1,769,149)	
6/17/2006	6/17/2019	2.0	CG	30,000,000	FXP	LIBOR	6.140%	(132,861)	(121,103)	(1,624,206)	(16,202,657)	27,334,986	(2,665,014)	
3/10/2007	3/10/2029	11.7	ML	30,000,000	FXP	LIBOR	5.687%	(121,272)	(110,533)	(1,490,778)	(14,605,807)	19,391,481	(10,608,519)	
3/10/2007	3/10/2029	11.7	CG	30,000,000	FXP	LIBOR	5.687%	(121,272)	(110,533)	(1,490,778)	(14,605,807)	19,387,451	(10,612,549)	
Totals/Weighted Avgs				6.4	\$ 130,000,000		5.949%	\$ (554,809)	\$ (506,453)	\$ (6,797,994)	\$ (67,260,856)	\$ 102,575,388	\$ (27,424,612)	
Total Current Year Active Swaps					\$ 130,000,000			\$ (554,809)	\$ (506,453)	\$ (6,797,994)	\$ (67,260,856)	\$ 102,575,388	\$ (27,424,612)	

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

Current Fiscal Year - Total Swaps								Cash Flow				Mark to Market	
Prior Month	Current Month	Fiscal YTD	Cumulative Cash Flow	Current Mark to Market	Notional Difference								
\$ (554,809)	\$ (506,453)	\$ (6,797,994)	\$ (67,260,856)	\$ 102,575,388	\$ (27,424,612)								



Cash Flow Comparison	
Synthetic Fixed vs. Fixed Rate Debt	
Cash Flow to Date	
Synthetic Fixed =	\$93,672,235
Fixed Rate =	\$106,151,468
Assumptions:	
- Fixed rate debt issued at 5.10% in Jun-06, and 4.93% in Mar-07 (estimated TE rates - Bloomberg)	
- 'Synthetic' includes swap cash flow + interest + fees to date	

Exhibit "C"

MONTHLY SUMMARY OF PAYROLL ACH PAYMENTS

June
2017

	AMOUNT	VENDOR	PURPOSE
6/9/2017	864,535.86	BANK OF AMERICA	ACH Payments for Payroll
6/23/2017	860,628.96	BANK OF AMERICA	ACH Payments for Payroll
	<u>\$1,725,164.82</u>		

Exhibit "D"

IRWD Ledger Upgrade

Void Payment Register

Report Date: 05-JUL-2017 09:20

Include Zero Amount Payments: No
 Display Payee Address: No

Period From: 01-JUN-17

Page: 1
 To: 30-JUN-17
 Date: Void Date

Bank: Bank of America N.A.

Branch: Los Angeles

Account: Checking AP and PR

Bank Account Currency: USD

Payment Currency: USD (US Dollar)

Payment Number	Date	Payee Name	Site	Address	Payment Amount	Void Date
Payment Document: IRWD CHECK						
375468	14-MAR-17	BURKE, WILLIAMS & SORENSEN,	PURCHASING		3,279.00	29-JUN-17
375496	14-MAR-17	FULLER TRUCK ACCESSORIES	FULLERTON		1,217.58	08-JUN-17
375693	16-MAR-17	HOME DEPOT USA INC	COLUMBUS		142.01	29-JUN-17
376257	06-APR-17	KEYSTONE PACIFIC PROPERTY M	PAY		48.06	08-JUN-17
376264	06-APR-17	MUNICIPAL WATER DISTRICT OF	FOUNTAIN VALLEY		9,733.00	08-JUN-17
377018	04-MAY-17	LANDCARE HOLDINGS, INC.	PO BOX 39000		37,156.57	29-JUN-17
377078	04-MAY-17	TRIESAND, EDWARD	PAY		176.82	01-JUN-17
377849	08-JUN-17	IRWD EMPLOYEE ASSOCIATION	15600 SC		2,695.00	08-JUN-17
378141	21-JUN-17	CISNEROS, ERICK	PAY		193.64	22-JUN-17

Payment Document Subtotal 54,641.68

Bank Account Subtotal 54,641.68

Report Total 54,641.68

Report Count: 9

Voids

*** End of Report ***

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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								
377651		01-JUN-17	Carlos, Alex		385.00	12-JUN-17	385.00	Reconciled
377652		01-JUN-17	Drzymkowski, Michele A (Michele)		260.00	08-JUN-17	260.00	Reconciled
377653		01-JUN-17	Fites, Michael E (Michael)		410.00	06-JUN-17	410.00	Reconciled
377654		01-JUN-17	Jacobson, Robert C (Rob)		4.50			Negotiable
377655		01-JUN-17	Martinez, Jose A IV (Jose)		70.00	21-JUN-17	70.00	Reconciled
377656		01-JUN-17	McElroy, Dorien		153.00	07-JUN-17	153.00	Reconciled
377657		01-JUN-17	Nash, Joel		148.10	07-JUN-17	148.10	Reconciled
377658		01-JUN-17	Saini, Mohit		179.59	22-JUN-17	179.59	Reconciled
377659		01-JUN-17	Swan, Peer		969.63	06-JUN-17	969.63	Reconciled
377660		01-JUN-17	HILL BROTHERS CHEMICAL COMPANY SOUTHERN CALIFORNIA EDISON COMPANY	1675 N MAIN ST ROSEMEAD	2,891.70	06-JUN-17	2,891.70	Reconciled
377661		01-JUN-17			141,021.17	05-JUN-17	141,021.17	Reconciled
377662		01-JUN-17	ACWA		400.00	13-JUN-17	400.00	Reconciled
377663		01-JUN-17	ALSTON & BIRD LLP		68,833.78	09-JUN-17	68,833.78	Reconciled
377664		01-JUN-17	APEX LIFE SCIENCES, LLC		3,167.50	05-JUN-17	3,167.50	Reconciled
377665		01-JUN-17	AQUA BEN CORPORATION		33,005.98	07-JUN-17	33,005.98	Reconciled
377666		01-JUN-17	ARMORCAST PRODUCTS COMPANY		7,364.72	05-JUN-17	7,364.72	Reconciled
377667		01-JUN-17	AT&T		51.28	07-JUN-17	51.28	Reconciled
377668		01-JUN-17	AT&T		1,278.57	07-JUN-17	1,278.57	Reconciled
377669		01-JUN-17	AUTOZONE PARTS, INC.		39.85	06-JUN-17	39.85	Reconciled
377670		01-JUN-17	BC WIRE ROPE & RIGGING		668.47	05-JUN-17	668.47	Reconciled
377671		01-JUN-17	BIOMAGIC INC		16,664.18	07-JUN-17	16,664.18	Reconciled
377672		01-JUN-17	BOOT WORLD, INC.		4,286.99			Negotiable
377673		01-JUN-17	BROWN AND CALDWELL		4,516.40	05-JUN-17	4,516.40	Reconciled
377674		01-JUN-17	BURKE, WILLIAMS & SORENSEN, LLP		2,145.00	06-JUN-17	2,145.00	Reconciled
377675		01-JUN-17	BUSH & ASSOCIATES INC		690.00			Negotiable
377676		01-JUN-17	CALIFORNIA BARRICADE RENTAL, INC.		5,825.00	07-JUN-17	5,825.00	Reconciled
377677		01-JUN-17	CALIFORNIA NEWSPAPER PARTNERSHIP		1,512.00	12-JUN-17	1,512.00	Reconciled

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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								
377678		01-JUN-17	CALIFORNIA STATE UNIVERSITY, FULLERTON		1,400.00	08-JUN-17	1,400.00	Reconciled
377679		01-JUN-17	CAPTIVE AUDIENCE MARKETING INC.		79.00	06-JUN-17	79.00	Reconciled
377680		01-JUN-17	CAVALIA USA, INC.		3,688.57			Negotiable
377681		01-JUN-17	CHEM TECH INTERNATIONAL INC		6,758.40	22-JUN-17	6,758.40	Reconciled
377682		01-JUN-17	CITY OF IRVINE		289.00	06-JUN-17	289.00	Reconciled
377683		01-JUN-17	CITY OF LAKE FOREST		72,200.00	15-JUN-17	72,200.00	Reconciled
377684		01-JUN-17	CITY OF LAKE FOREST		6,589.75	15-JUN-17	6,589.75	Reconciled
377685		01-JUN-17	CITY OF TUSTIN		492.20	05-JUN-17	492.20	Reconciled
377686		01-JUN-17	CLEANTECH SERVICES, LLC		1,402.94	09-JUN-17	1,402.94	Reconciled
377687		01-JUN-17	CLEAR SOLUTIONS INC.		1,573.44	05-JUN-17	1,573.44	Reconciled
377688		01-JUN-17	COASTLINE EQUIPMENT COMPANY		612.37	06-JUN-17	612.37	Reconciled
377689		01-JUN-17	COUNTY OF ORANGE		200.00	20-JUN-17	200.00	Reconciled
377690		01-JUN-17	COX COMMUNICATIONS, INC.		256.24	06-JUN-17	256.24	Reconciled
377691		01-JUN-17	CULLIGAN OF SANTA ANA		4,011.40	05-JUN-17	4,011.40	Reconciled
377692		01-JUN-17	D & G SIGNS		653.01	09-JUN-17	653.01	Reconciled

377693	01-JUN-17	D & H WATER SYSTEMS INC.	8,537.06	07-JUN-17	8,537.06	Reconciled
377694	01-JUN-17	DATAGEAR, INC.	3,322.44			Negotiable
377695	01-JUN-17	DEE JASPAR & ASSOCIATES, INC.	2,795.57	13-JUN-17	2,795.57	Reconciled
377696	01-JUN-17	DIRECTV INC	120.53	07-JUN-17	120.53	Reconciled
377697	01-JUN-17	DUDEK	412.50	09-JUN-17	412.50	Reconciled
377698	01-JUN-17	ENVIRONMENTAL ENGINEERING AND CONTRACTING, INC.	10,736.25	07-JUN-17	10,736.25	Reconciled
377699	01-JUN-17	ENVIRONMENTAL RESOURCE ASSOCIATES	1,558.66	07-JUN-17	1,558.66	Reconciled
377700	01-JUN-17	EUROFINS EATON ANALYTICAL, INC.	300.00	06-JUN-17	300.00	Reconciled
377701	01-JUN-17	FARRELL & ASSOCIATES	72.01	05-JUN-17	72.01	Reconciled
377702	01-JUN-17	FEDEX	265.03	06-JUN-17	265.03	Reconciled

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 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								
377703		01-JUN-17	FISHER SCIENTIFIC COMPANY LLC		11,120.87	07-JUN-17	11,120.87	Reconciled
377704		01-JUN-17	FRONTIER CALIFORNIA INC.		269.38	08-JUN-17	269.38	Reconciled
377705		01-JUN-17	GARDENSOFT		3,000.00	05-JUN-17	3,000.00	Reconciled
377706		01-JUN-17	GRAINGER		2,546.27	05-JUN-17	2,546.27	Reconciled
377707		01-JUN-17	HARRINGTON INDUSTRIAL PLASTICS LLC		9,061.19	05-JUN-17	9,061.19	Reconciled
377708		01-JUN-17	HELPMATES STAFFING SERVICES		4,714.88	05-JUN-17	4,714.88	Reconciled
377709		01-JUN-17	HOME DEPOT USA INC		606.74	07-JUN-17	606.74	Reconciled
377710		01-JUN-17	INDUSTRIAL SURPLUS AND SALVAGE		1,000.00	08-JUN-17	1,000.00	Reconciled
377711		01-JUN-17	INFOSYS LIMITED		84,660.00	05-JUN-17	84,660.00	Reconciled
377712		01-JUN-17	IRVINE PIPE & SUPPLY INC		3,233.28	05-JUN-17	3,233.28	Reconciled
377713		01-JUN-17	KAESER COMPRESSORS, INC.		1,875.51	05-JUN-17	1,875.51	Reconciled
377714		01-JUN-17	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		400.00	05-JUN-17	400.00	Reconciled
377715		01-JUN-17	KIMBALL MIDWEST		1,076.98	05-JUN-17	1,076.98	Reconciled
377716		01-JUN-17	KLEINFELDER, INC.		26,722.45	08-JUN-17	26,722.45	Reconciled
377717		01-JUN-17	LAGUNA BEACH COUNTY WATER DISTRICT		1,129.21	08-JUN-17	1,129.21	Reconciled
377718		01-JUN-17	MC FADDEN-DALE INDUSTRIAL		79.71	08-JUN-17	79.71	Reconciled
377719		01-JUN-17	MC MASTER CARR SUPPLY CO		3,461.83	05-JUN-17	3,461.83	Reconciled
377720		01-JUN-17	MISSION LANDSCAPE		695.51	07-JUN-17	695.51	Reconciled
377721		01-JUN-17	MOODY'S INVESTORS SERVICE INC		15,000.00	08-JUN-17	15,000.00	Reconciled
377722		01-JUN-17	NATIONAL READY MIXED CONCRETE CO.		825.38	05-JUN-17	825.38	Reconciled
377723		01-JUN-17	NATURES IMAGE INC		385.00	05-JUN-17	385.00	Reconciled
377724		01-JUN-17	NMG GEOTECHNICAL INC		5,115.40	09-JUN-17	5,115.40	Reconciled
377725		01-JUN-17	O'HAREN GOVERNMENT RELATIONS		6,500.00	06-JUN-17	6,500.00	Reconciled
377726		01-JUN-17	OLIN CORPORATION		20,622.85	07-JUN-17	20,622.85	Reconciled
377727		01-JUN-17	OLSON, HAGEL & FISHBURN, LLP		661.50	05-JUN-17	661.50	Reconciled
377728		01-JUN-17	ORANGE COUNTY AUTO PARTS CO		24.87	05-JUN-17	24.87	Reconciled

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 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								
377729		01-JUN-17	ORANGE COUNTY FIRE AUTHORITY		655.00	06-JUN-17	655.00	Reconciled
377730		01-JUN-17	OUTSOURCE TECHNICAL LLC		20,020.00	06-JUN-17	20,020.00	Reconciled
377731		01-JUN-17	PACIFIC COAST BOLT CORP		533.65	06-JUN-17	533.65	Reconciled
377732		01-JUN-17	PACIFIC PARTS & CONTROLS INC		1,073.42	05-JUN-17	1,073.42	Reconciled
377733		01-JUN-17	PARKWAY LAWNMOWER		969.70	06-JUN-17	969.70	Reconciled

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
377734	01-JUN-17	SHOP PAULUS ENGINEERING, INC.			1,952.46	05-JUN-17	1,952.46	Reconciled
377735	01-JUN-17	PAYNE & FEARS LLP			5,264.92	05-JUN-17	5,264.92	Reconciled
377736	01-JUN-17	POLLARDWATER.COM			1,912.56	05-JUN-17	1,912.56	Reconciled
377737	01-JUN-17	PUMP CHECK			895.00	05-JUN-17	895.00	Reconciled
377738	01-JUN-17	RAHIMI, STEVE			568.88	06-JUN-17	568.88	Reconciled
377739	01-JUN-17	RAM AIR ENGINEERING INC			1,300.00	06-JUN-17	1,300.00	Reconciled
377740	01-JUN-17	ROYAL WHOLESALE ELECTRIC			2,675.33	05-JUN-17	2,675.33	Reconciled
377741	01-JUN-17	SANDERS PAVING INC			23,200.00	08-JUN-17	23,200.00	Reconciled
377742	01-JUN-17	SANTA ANA BLUE PRINT			347.97	08-JUN-17	347.97	Reconciled
377743	01-JUN-17	SANTA MARGARITA FORD			516.73	05-JUN-17	516.73	Reconciled
377744	01-JUN-17	SANTA MARGARITA WATER DISTRICT			30,413.44	07-JUN-17	30,413.44	Reconciled
377745	01-JUN-17	SCHINDLER ELEVATOR CORPORATION			188.97	06-JUN-17	188.97	Reconciled
377746	01-JUN-17	SOUTHERN COUNTIES LUBRICANTS LLC			743.20	06-JUN-17	743.20	Reconciled
377747	01-JUN-17	STAKING UNIVERSITY			7,212.02	07-JUN-17	7,212.02	Reconciled
377748	01-JUN-17	STANDARD & POOR'S FINANCIAL SERVICES LLC			5,000.00	05-JUN-17	5,000.00	Reconciled
377749	01-JUN-17	STANTEC CONSULTING SERVICES INC.			9,375.00	05-JUN-17	9,375.00	Reconciled
377750	01-JUN-17	SUMMIT CHEMICAL SPECIALTY PRODUCTS			10,466.90	23-JUN-17	10,466.90	Reconciled
377751	01-JUN-17	TEL SEC CONSULT, LLC			3,600.00	05-JUN-17	3,600.00	Reconciled
377752	01-JUN-17	TESTAMERICA LABORATORIES, INC			805.25	07-JUN-17	805.25	Reconciled
377753	01-JUN-17	THE GAS COMPANY			33.16			Negotiable

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 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								
377754	01-JUN-17	THE NEW HOME COMPANY SOUTHERN CALIFORNIA LLC			685.65			Negotiable
377755	01-JUN-17	TRENCH SHORING COMPANY			87.60	06-JUN-17	87.60	Reconciled
377756	01-JUN-17	TROPICAL PLAZA NURSERY INC			18,616.00	07-JUN-17	18,616.00	Reconciled
377757	01-JUN-17	TRUCPARCO			1,462.38	08-JUN-17	1,462.38	Reconciled
377758	01-JUN-17	ULTRA SCIENTIFIC			1,596.50	07-JUN-17	1,596.50	Reconciled
377759	01-JUN-17	UNITED PARCEL SERVICE INC			278.49	06-JUN-17	278.49	Reconciled
377760	01-JUN-17	UNITED SITE SERVICES OF CALIFORNIA INC			478.06	07-JUN-17	478.06	Reconciled
377761	01-JUN-17	UNITED STATES POST OFFICE			25,000.00	12-JUN-17	25,000.00	Reconciled
377762	01-JUN-17	URS CORPORATION			3,180.00	05-JUN-17	3,180.00	Reconciled
377763	01-JUN-17	VEGA AMERICAS, INC			9,266.93	05-JUN-17	9,266.93	Reconciled
377764	01-JUN-17	VERIZON WIRELESS SERVICES LLC			4,955.23	07-JUN-17	4,955.23	Reconciled
377765	01-JUN-17	VRIDE INC			5,095.00	05-JUN-17	5,095.00	Reconciled
377766	01-JUN-17	WASTE MANAGEMENT OF ORANGE COUNTY			1,368.19	06-JUN-17	1,368.19	Reconciled
377767	01-JUN-17	WATERSMART SOFTWARE, INC			13,597.50	07-JUN-17	13,597.50	Reconciled
377768	01-JUN-17	WATERWISE CONSULTING, INC.			12,315.68	07-JUN-17	12,315.68	Reconciled
377769	01-JUN-17	WEST COAST SAND & GRAVEL INC.			647.47	06-JUN-17	647.47	Reconciled
377770	01-JUN-17	WESTAMERICA COMMUNICATIONS, INC.			24,352.30	07-JUN-17	24,352.30	Reconciled
377771	01-JUN-17	ZEBRON CONTRACTING INC			93,480.00	09-JUN-17	93,480.00	Reconciled
377772	01-JUN-17	ODOTECH INC	PURCHASE		68,500.00	13-JUN-17	68,500.00	Reconciled
377773	01-JUN-17	NATURAL COMMUNITIES COALITION	PURCHASE		89,050.00			Negotiable
377774	08-JUN-17	Bonkowski, Leslie A (Leslie)			20.40	12-JUN-17	20.40	Reconciled
377775	08-JUN-17	Bonkowski, Thomas J (Thomas)			26.86	12-JUN-17	26.86	Reconciled
377776	08-JUN-17	Compton, Christine A			67.94			Negotiable
377777	08-JUN-17	Cortez, Malcolm A (Malcolm)			51.36	27-JUN-17	51.36	Reconciled

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 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								
377778		08-JUN-17	Lao, Richard S		49.59	12-JUN-17	49.59	Reconciled
377779		08-JUN-17	Pan, Jenny W (Jenny)		32.09			Negotiable
377780		08-JUN-17	Parsons, Sheryl		145.00	19-JUN-17	145.00	Reconciled
377781		08-JUN-17	Spangenberg, Carl W (Carl)		31.04			Negotiable
377782		08-JUN-17	A STITCH ON TIME.COM		207.42	12-JUN-17	207.42	Reconciled
377783		08-JUN-17	ACCURATE AIR ENGINEERING INC		1,541.86	13-JUN-17	1,541.86	Reconciled
377784		08-JUN-17	ADS LLC		1,936.50	12-JUN-17	1,936.50	Reconciled
377785		08-JUN-17	ADVANCED ENVIRONMENTAL COMPLIANCE, LLC		5,345.00	21-JUN-17	5,345.00	Reconciled
377786		08-JUN-17	AIRGAS, INC.		591.40	12-JUN-17	591.40	Reconciled
377787		08-JUN-17	ALEXANDER'S CONTRACT SERVICES, INC.		114,049.97			Negotiable
377788		08-JUN-17	ALLIANT INSURANCE SERVICES, INC		9,325.00	12-JUN-17	9,325.00	Reconciled
377789		08-JUN-17	AMERICAN WATER CHEMICALS, INC.		10,467.98	12-JUN-17	10,467.98	Reconciled
377790		08-JUN-17	AMPCO CONTRACTING, INC		1,704.97	21-JUN-17	1,704.97	Reconciled
377791		08-JUN-17	ANDERSONPENNA PARTNERS, INC.		35,722.00			Negotiable
377792		08-JUN-17	APEX LIFE SCIENCES, LLC		1,452.50	12-JUN-17	1,452.50	Reconciled
377793		08-JUN-17	APPLIED INDUSTRIAL TECHNOLOGIES - CA LLC		107.75	12-JUN-17	107.75	Reconciled
377794		08-JUN-17	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		34,174.64	20-JUN-17	34,174.64	Reconciled
377795		08-JUN-17	AUSTIN HARDWOODS, INC		2.33	16-JUN-17	2.33	Reconciled
377796		08-JUN-17	AUTOZONE PARTS, INC.		88.24	13-JUN-17	88.24	Reconciled
377797		08-JUN-17	BARTEL ASSOCIATES, LLC		717.00	12-JUN-17	717.00	Reconciled
377798		08-JUN-17	BATTERIES PLUS AND BATTERIES PLUS BULBS		517.46	12-JUN-17	517.46	Reconciled
377799		08-JUN-17	BATTERY SPECIALTIES		4,395.69			Negotiable

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 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								
377800		08-JUN-17	BEST DRILLING AND PUMP, INC.		32,772.23	12-JUN-17	32,772.23	Reconciled
377801		08-JUN-17	BIGWIG MONSTER, LLC		14,700.00			Negotiable
377802		08-JUN-17	BILL'S SWEEPING SERVICE INC		750.00	15-JUN-17	750.00	Reconciled
377803		08-JUN-17	BLACK BOX CORP OF PENNSYLVANIA		172.96			Negotiable
377804		08-JUN-17	C WELLS PIPELINE MATERIALS INC		40,261.07	15-JUN-17	40,261.07	Reconciled
377805		08-JUN-17	CALIFORNIA BARRICADE RENTAL, INC.		4,740.00	21-JUN-17	4,740.00	Reconciled
377806		08-JUN-17	CANON SOLUTIONS AMERICA, INC.		407.01	12-JUN-17	407.01	Reconciled
377807		08-JUN-17	CDW GOVERNMENT LLC		786.66			Negotiable
377808		08-JUN-17	CITY OF IRVINE		708.00	13-JUN-17	708.00	Reconciled
377809		08-JUN-17	CIVILSOURCE, INC.		66,881.00	19-JUN-17	66,881.00	Reconciled
377810		08-JUN-17	CLA-VAL COMPANY		322.69	12-JUN-17	322.69	Reconciled
377811		08-JUN-17	CLEAN ENERGY		3,562.05	19-JUN-17	3,562.05	Reconciled
377812		08-JUN-17	CLEARINGHOUSE		477.67	15-JUN-17	477.67	Reconciled
377813		08-JUN-17	COASTLINE EQUIPMENT COMPANY		419.98	13-JUN-17	419.98	Reconciled
377814		08-JUN-17	CONTROLLED KEY SYSTEMS INC		280.00	15-JUN-17	280.00	Reconciled
377815		08-JUN-17	CULLIGAN OF SANTA ANA		6,017.10			Negotiable
377816		08-JUN-17	D & G SIGNS		5,508.18	13-JUN-17	5,508.18	Reconciled
377817		08-JUN-17	DAGANHARDT, DORI		145.66	28-JUN-17	145.66	Reconciled
377818		08-JUN-17	DANGELO CO		32,764.46			Negotiable
377819		08-JUN-17	DAVE CONLEY		3,701.76	21-JUN-17	3,701.76	Reconciled

377820	08-JUN-17	DEX MEDIA INC.	77.25	15-JUN-17	77.25	Reconciled
377821	08-JUN-17	DICKENS, MICHAEL	117.54			Negotiable
377822	08-JUN-17	EAST ORANGE COUNTY WATER DISTRICT	8,433.90	12-JUN-17	8,433.90	Reconciled
377823	08-JUN-17	EHS INTERNATIONAL, INC	3,600.00	13-JUN-17	3,600.00	Reconciled
377824	08-JUN-17	EI&C ENGINEERING INC	49,180.00	16-JUN-17	49,180.00	Reconciled
377825	08-JUN-17	ENVIRONMENTAL RESOURCE ASSOCIATES	657.57	12-JUN-17	657.57	Reconciled
377826	08-JUN-17	EUROFINS EATON ANALYTICAL, INC.	1,400.00	13-JUN-17	1,400.00	Reconciled
377827	08-JUN-17	EVANTEC CORPORATION	637.88	12-JUN-17	637.88	Reconciled

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 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								
377828		08-JUN-17	EXECUTIVE LIGHTING & ELECTRIC		1,640.08	12-JUN-17	1,640.08	Reconciled
377829		08-JUN-17	FEDEX		635.93	13-JUN-17	635.93	Reconciled
377830		08-JUN-17	FERGUSON ENTERPRISES, INC.		21,280.03			Negotiable
377831		08-JUN-17	FIDELITY SECURITY LIFE INSURANCE COMPANY		6,697.10			Negotiable
377832		08-JUN-17	FIRST CHOICE SERVICES		1,440.88			Negotiable
377833		08-JUN-17	FISERV		286.90	12-JUN-17	286.90	Reconciled
377834		08-JUN-17	FISHER SCIENTIFIC COMPANY LLC		3,193.68	12-JUN-17	3,193.68	Reconciled
377835		08-JUN-17	GALLADE CHEMICAL INC		1,465.40	13-JUN-17	1,465.40	Reconciled
377836		08-JUN-17	GANAHL LUMBER CO.		204.17	15-JUN-17	204.17	Reconciled
377837		08-JUN-17	GENERAL PUMP COMPANY INC		51,278.30	19-JUN-17	51,278.30	Reconciled
377838		08-JUN-17	GRAINGER		5,296.96	12-JUN-17	5,296.96	Reconciled
377839		08-JUN-17	GUMBRECHT, ANNALISA		30.09	26-JUN-17	30.09	Reconciled
377840		08-JUN-17	H2O INNOVATION USA INC		3,950.48	16-JUN-17	3,950.48	Reconciled
377841		08-JUN-17	HACH COMPANY		3,207.67	12-JUN-17	3,207.67	Reconciled
377842		08-JUN-17	HDR ENGINEERING INC		185,242.88	15-JUN-17	185,242.88	Reconciled
377843		08-JUN-17	HELEMATES STAFFING SERVICES		5,544.40	12-JUN-17	5,544.40	Reconciled
377844		08-JUN-17	HILL BROTHERS CHEMICAL COMPANY		28,042.38	15-JUN-17	28,042.38	Reconciled
377845		08-JUN-17	HOME DEPOT USA INC		850.63			Negotiable
377846		08-JUN-17	HUNSAKER & ASSOCIATES IRVINE		2,296.00	13-JUN-17	2,296.00	Reconciled
377847		08-JUN-17	IBM CORPORATION		925.00	12-JUN-17	925.00	Reconciled
377848		08-JUN-17	IRVINE PIPE & SUPPLY INC		11,293.97			Negotiable
377849		08-JUN-17	IRWD EMPLOYEE ASSOCIATION		2,695.00			Voided
377850		08-JUN-17	IRWD-PETTY CASH CUSTODIAN		1,267.91	09-JUN-17	1,267.91	Reconciled
377851		08-JUN-17	JCI JONES CHEMICALS INC		4,512.51	13-JUN-17	4,512.51	Reconciled
377852		08-JUN-17	JIG CONSULTANTS		12,345.31	15-JUN-17	12,345.31	Reconciled
377853		08-JUN-17	JOHN MICHAEL COVAS		191.70	15-JUN-17	191.70	Reconciled
377854		08-JUN-17	KAYUGA SOLUTION INC		21,450.00	16-JUN-17	21,450.00	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
377855		08-JUN-17	KB HOMES		177.18	26-JUN-17	177.18	Reconciled
377856		08-JUN-17	KOELLER NEBEKER CARLSON & HALUCK, LLP		791.20	13-JUN-17	791.20	Reconciled
377857		08-JUN-17	KONECRANES INC		409.50	12-JUN-17	409.50	Reconciled
377858		08-JUN-17	LA HABRA FENCE COMPANY INC		9,379.00	15-JUN-17	9,379.00	Reconciled
377859		08-JUN-17	LANDCARE HOLDINGS, INC.		37,461.57	15-JUN-17	37,461.57	Reconciled
377860		08-JUN-17	LGC GEOTECHNICAL, INC.		3,340.00	12-JUN-17	3,340.00	Reconciled
377861		08-JUN-17	LUONG, KHOA		671.56	29-JUN-17	671.56	Reconciled

377862	08-JUN-17	MC MASTER CARR SUPPLY CO	640.09	12-JUN-17	640.09	Reconciled
377863	08-JUN-17	MILLIE AND SEVERSON	670.11	13-JUN-17	670.11	Reconciled
377864	08-JUN-17	MOBILE MODULAR MANAGEMENT CORPORATION	1,018.24	12-JUN-17	1,018.24	Reconciled
377865	08-JUN-17	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	120,672.47			Negotiable
377866	00-JUN-17	MUTUAL PROPANE	45.00	13-JUN-17	45.00	Reconciled
377867	08-JUN-17	NATIONAL METER & AUTOMATION, INC.	67,067.91	16-JUN-17	67,067.91	Reconciled
377868	08-JUN-17	NATIONAL WATER RESEARCH INSTITUTE	5,000.00			Negotiable
377869	08-JUN-17	NATURALWELL, LLC	1,705.00			Negotiable
377870	08-JUN-17	NATURES IMAGE INC	160.83	12-JUN-17	160.83	Reconciled
377871	08-JUN-17	NEWPORT NORTH APTS	3,744.82	15-JUN-17	3,744.82	Reconciled
377872	08-JUN-17	NOSSAMAN LLP	19,096.76			Negotiable
377873	08-JUN-17	ODYSSEY POWER CORPORATION	1,790.00	12-JUN-17	1,790.00	Reconciled
377874	08-JUN-17	OLIN CORPORATION	14,786.48	16-JUN-17	14,786.48	Reconciled
377875	08-JUN-17	ONESOURCE DISTRIBUTORS LLC	451.78	12-JUN-17	451.78	Reconciled
377876	08-JUN-17	ORACLE AMERICA, INC.	28,173.06	15-JUN-17	28,173.06	Reconciled
377877	08-JUN-17	ORANGE COUNTY AUTO PARTS CO	349.84	12-JUN-17	349.84	Reconciled
377878	08-JUN-17	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT	1,470.45	19-JUN-17	1,470.45	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
377879		08-JUN-17	ORANGE COUNTY SANITATION DISTRICT		1,500.00	12-JUN-17	1,500.00	Reconciled
377880		08-JUN-17	ORANGE COUNTY SHERIFF'S OFFICE		62.50	19-JUN-17	62.50	Reconciled
377881		08-JUN-17	ORANGE COUNTY TREASURER		3,200.00	12-JUN-17	3,200.00	Reconciled
377882		08-JUN-17	OUTSOURCE TECHNICAL LLC		23,200.00	15-JUN-17	23,200.00	Reconciled
377883		08-JUN-17	PACIFIC HYDROTECH CORPORATION		74,436.10	16-JUN-17	74,436.10	Reconciled
377884		08-JUN-17	PACIFIC HYDROTECH CORPORATION		182.90			Negotiable
377885		08-JUN-17	PARK PLACE MICHELSON LLC		64,969.24	16-JUN-17	64,969.24	Reconciled
377886		08-JUN-17	PERS LONG TERM CARE		878.66			Negotiable
377887		08-JUN-17	PIONEER I HOLDINGS, LLC		162.47	16-JUN-17	162.47	Reconciled
377888		08-JUN-17	PIPELOGIX INC		2,639.88			Negotiable
377889		08-JUN-17	PRAXAIR		447.42			Negotiable
377890		08-JUN-17	DISTRIBUTION INC PRES-TECH MANUFACTURER'S REPRESENTATIVES, INC.		235.90	12-JUN-17	235.90	Reconciled
377891		08-JUN-17	PRIESAND, EDWARD		123.08	15-JUN-17	123.08	Reconciled
377892		08-JUN-17	PRUDENTIAL OVERALL SUPPLY		5,523.64	12-JUN-17	5,523.64	Reconciled
377893		08-JUN-17	PURDUE UNIVERSITY		9,500.00			Negotiable
377894		08-JUN-17	QUICKEL PAVING INC		475.00	12-JUN-17	475.00	Reconciled
377895		08-JUN-17	RAM AIR ENGINEERING INC		12,347.14	15-JUN-17	12,347.14	Reconciled
377896		08-JUN-17	REACH EMPLOYEE ASSISTANCE INC		968.80	20-JUN-17	968.80	Reconciled
377897		08-JUN-17	REED, JAMES D		1,930.00	27-JUN-17	1,930.00	Reconciled
377898		08-JUN-17	REFRIGERATION SUPPLIES DISTRIBUTOR		92.84			Negotiable
377899		08-JUN-17	RINGCLEAR LLC		80.40	13-JUN-17	80.40	Reconciled
377900		08-JUN-17	ROCKWELL SOLUTIONS INC.		21,280.70	13-JUN-17	21,280.70	Reconciled
377901		08-JUN-17	ROSAL, CYRIL		30.97	26-JUN-17	30.97	Reconciled
377902		08-JUN-17	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		522,709.00	19-JUN-17	522,709.00	Reconciled

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 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								
377903		08-JUN-17	SAFETY-KLEEN SYSTEMS, INC		253.75	12-JUN-17	253.75	Reconciled
377904		08-JUN-17	SANTA MARGARITA FORD		145.46	13-JUN-17	145.46	Reconciled
377905		08-JUN-17	SEAL ANALYTICAL INC		277.57	12-JUN-17	277.57	Reconciled
377906		08-JUN-17	SHAMROCK SUPPLY CO INC		3,279.54	13-JUN-17	3,279.54	Reconciled
377907		08-JUN-17	SIE, JAMES		1.44			Negotiable
377908		08-JUN-17	SIMI VALLEY LANDFILL AND RECYCLING CENTER		665.55	12-JUN-17	665.55	Reconciled
377909		08-JUN-17	SOCAL REMOVAL		86,648.17	16-JUN-17	86,648.17	Reconciled
377910		08-JUN-17	SOUTH COAST WATER CO.		40.00	16-JUN-17	40.00	Reconciled
377911		08-JUN-17	SOUTHERN CALIFORNIA EDISON COMPANY		568,155.89	15-JUN-17	568,155.89	Reconciled
377912		08-JUN-17	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.		878.76	20-JUN-17	878.76	Reconciled
377913		08-JUN-17	SPARKLETTS		77.48	16-JUN-17	77.48	Reconciled
377914		08-JUN-17	SPATIAL WAVE, INC.		50,000.00	15-JUN-17	50,000.00	Reconciled
377915		08-JUN-17	STATE BOARD OF EQUALIZATION		1,362.00	13-JUN-17	1,362.00	Reconciled
377916		08-JUN-17	STATE INDUSTRIAL PRODUCTS CORPORATION		830.11	19-JUN-17	830.11	Reconciled
377917		08-JUN-17	SUN, CATHY		35.11	13-JUN-17	35.11	Reconciled
377918		08-JUN-17	SYED, FAROOQ		224.30			Negotiable
377919		08-JUN-17	TABOR, SHERRY		61.37	20-JUN-17	61.37	Reconciled
377920		08-JUN-17	TESTAMERICA LABORATORIES, INC		52.50	15-JUN-17	52.50	Reconciled
377921		08-JUN-17	TETRA TECH, INC		10,836.00	15-JUN-17	10,836.00	Reconciled
377922		08-JUN-17	THE FURMAN GROUP, INC.		12,540.00	16-JUN-17	12,540.00	Reconciled
377923		08-JUN-17	THE PARK @ SPECTRUM APARTMENTS		1,608.80	16-JUN-17	1,608.80	Reconciled
377924		08-JUN-17	THYSSENKRUPP ELEVATOR CORPORATION		185.84	12-JUN-17	185.84	Reconciled
377925		08-JUN-17	TIMOTHY W. HOGAN		12,163.68			Negotiable
377926		08-JUN-17	TROPICAL PLAZA NURSERY INC		10,569.55			Negotiable

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
377927		08-JUN-17	TRUCPARCO		1,938.04	13-JUN-17	1,938.04	Reconciled
377928		08-JUN-17	UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA URBAN WATER INSTITUTE INC		1,141.50	16-JUN-17	1,141.50	Reconciled
377929		08-JUN-17	VEGA AMERICAS, INC		1,250.00	16-JUN-17	1,250.00	Reconciled
377930		08-JUN-17	VERIZON WIRELESS SERVICES LLC		22,268.35	15-JUN-17	22,268.35	Reconciled
377931		08-JUN-17	VRIDE INC		4,773.01	13-JUN-17	4,773.01	Reconciled
377932		08-JUN-17	VWR INTERNATIONAL, LLC		10,766.67	15-JUN-17	10,766.67	Reconciled
377933		08-JUN-17	WARD, WILLIAM P JR.		1,561.49	12-JUN-17	1,561.49	Reconciled
377934		08-JUN-17	WALTERS WHOLESALE ELECTRIC		28.00	13-JUN-17	28.00	Reconciled
377935		08-JUN-17	WASTE MANAGEMENT OF ORANGE COUNTY WATERLINE TECHNOLOGIES INC		613.00	15-JUN-17	613.00	Reconciled
377936		08-JUN-17	WAXIE'S ENTERPRISES, INC		1,663.06	12-JUN-17	1,663.06	Reconciled
377937		08-JUN-17	WECK LABORATORIES INC		2,840.00	12-JUN-17	2,840.00	Reconciled
377938		08-JUN-17	WEST COAST SAND & GRAVEL INC.		2,333.73	12-JUN-17	2,333.73	Reconciled
377939		08-JUN-17	WEST YOST ASSOCIATES, INC		115.00	15-JUN-17	115.00	Reconciled
377940		08-JUN-17	WESTAMERICA COMMUNICATIONS, INC.		1,135.73	13-JUN-17	1,135.73	Reconciled
377941		08-JUN-17	WORKHORSE DIVING		10,475.00	16-JUN-17	10,475.00	Reconciled
377942		08-JUN-17			12,620.70			Negotiable
377943		08-JUN-17			45,094.00	16-JUN-17	45,094.00	Reconciled

377944	08-JUN-17	AND SALVAGE		44.08	23-JUN-17	44.08	Reconciled
377945	08-JUN-17	YANG, SHAOPIG		44,291.38	15-JUN-17	44,291.38	Reconciled
377946	08-JUN-17	YSI, INC		20.19			Negotiable
377947	08-JUN-17	ZHOU, JIE	TAMPA	2,627.63	13-JUN-17	2,627.63	Reconciled
377948	08-JUN-17	JCI JONES					
		CHEMICALS INC	15600 SC	1,355.00	26-JUN-17	1,355.00	Reconciled
377949	08-JUN-17	IRWD EMPLOYEE ASSOCIATION	15600 SC	1,340.00	26-JUN-17	1,340.00	Reconciled
377950	09 JUN-17	IRWD EMPLOYEE ASSOCIATION	15600 SC	1,340.00	26-JUN-17	1,340.00	Reconciled
		CITY OF SANTA ANA	PO BOX 1964	195,000.00	15-JUN-17	195,000.00	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
377951		09-JUN-17	JOHNSON-PELTIER	LOS ANGELES	97,035.13			Negotiable
377952		09-JUN-17	BEST DRILLING AND PUMP, INC.	COLTON	201,827.50			Negotiable
377953		09-JUN-17	W.M. LYLES CO	FRESNO	134,157.77	15-JUN-17	134,157.77	Reconciled
377954		09-JUN-17	W.M. LYLES CO	ESCR 35110399	7,060.93			Negotiable
377955		09-JUN-17	PASCAL & LUDWIG CONSTRUCTORS	ONTARIO	143,260.00	22-JUN-17	143,260.00	Reconciled
377956		09-JUN-17	PASCAL & LUDWIG CONSTRUCTORS	ESR 243289084	7,540.00			Negotiable
377957		09-JUN-17	PACIFIC HYDROTECH CORPORATION	PAY	157,163.25	16-JUN-17	157,163.25	Reconciled
377958		09-JUN-17	TROPICAL PLAZA NURSEY INC	PAY	45,740.60			Negotiable
377959		14-JUN-17	JCI JONES	TAMPA	5,255.25	20-JUN-17	5,255.25	Reconciled
377960		15-JUN-17	CHEMICALS INC					
			Bennett, Ray R (Ray)		178.71	22-JUN-17	178.71	Reconciled
377961		15-JUN-17	Donnelly, Stephen P (Stephen)		105.00	03-JUL-17	105.00	Reconciled
377962		15-JUN-17	Garcia, Alejandro (Alex)		96.96	26-JUN-17	96.96	Reconciled
377963		15-JUN-17	LaMar, Steven E		1,471.19	22-JUN-17	1,471.19	Reconciled
377964		15-JUN-17	McElroy, Dorien		83.00	19-JUN-17	83.00	Reconciled
377965		15-JUN-17	Moeder, Jacob J (Jacob)		12.84			Negotiable
377966		15-JUN-17	Reinhart, Douglas J		1,021.62	26-JUN-17	1,021.62	Reconciled
377967		15-JUN-17	Sanchez, Hector A (Hector)		218.41	19-JUN-17	218.41	Reconciled
377968		15-JUN-17	Smyth, Jeffrey S (Jeff)		234.26	19-JUN-17	234.26	Reconciled
377969		15-JUN-17	Swan, Peer		1,068.37	22-JUN-17	1,068.37	Reconciled
377970		15-JUN-17	Wilson, Brett		683.74	19-JUN-17	683.74	Reconciled
377971		15-JUN-17	Withers, John B		921.08	16-JUN-17	921.08	Reconciled
377972		15-JUN-17	3M COMPANY		581.14	20-JUN-17	581.14	Reconciled
377973		15-JUN-17	ACCUSOURCE, INC.		950.60	23-JUN-17	950.60	Reconciled
377974		15-JUN-17	ADVANCED CALIBRATION DESIGNS INC		488.00	28-JUN-17	488.00	Reconciled
377975		15-JUN-17	AECOM TECHNICAL SERVICES, INC.		2,473.75	19-JUN-17	2,473.75	Reconciled
377976		15-JUN-17	AIRGAS, INC.		1,649.66	19-JUN-17	1,649.66	Reconciled
377977		15-JUN-17	ALSTON & BIRD LLP		62,118.03	22-JUN-17	62,118.03	Reconciled

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 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
377978		15-JUN-17	AMERICAN VAN EQUIPMENT, INC		605.78	19-JUN-17	605.78	Reconciled
377979		15-JUN-17	ANDERSON, LARRY		74.94	28-JUN-17	74.94	Reconciled
377980		15-JUN-17	ANIXTER INC		414.68	20-JUN-17	414.68	Reconciled
377981		15-JUN-17	APCO GRAPHICS INC		460.59	19-JUN-17	460.59	Reconciled
377982		15-JUN-17	AQUA-METRIC SALES COMPANY		23,187.10	23-JUN-17	23,187.10	Reconciled
377983		15-JUN-17	ARCADIS U.S., INC.		104,008.89	21-JUN-17	104,008.89	Reconciled
377984		15-JUN-17	ASSOCIATION OF CALIFORNIA WATER AGENCIES/JPIA		500.00	20-JUN-17	500.00	Reconciled
377985		15-JUN-17	AT&T		1,661.41	21-JUN-17	1,661.41	Reconciled
377986		15-JUN-17	AT&T		48.72	19-JUN-17	48.72	Reconciled
377987		15-JUN-17	AT&T		4,028.85	20-JUN-17	4,028.85	Reconciled
377988		15-JUN-17	ATHENS SERVICES		1,563.60	19-JUN-17	1,563.60	Reconciled
377989		15-JUN-17	ATHENS SERVICES		8,790.17	20-JUN-17	8,790.17	Reconciled

377990	15-JUN-17	AUTOZONE PARTS, INC.		105.81	23-JUN-17	105.81	Reconciled
377991	15-JUN-17	BECKMAN COULTER INC		1,211.88	20-JUN-17	1,211.88	Reconciled
377992	15-JUN-17	BEHRENS AND ASSOCIATES, INC.		2,262.75	26-JUN-17	2,262.75	Reconciled
377993	15-JUN-17	BELL TOWER FLORIST & GIFTS		96.96	23-JUN-17	96.96	Reconciled
377994	15-JUN-17	BIGWIG MONSTER, LLC		2,250.00	16-JUN-17	2,250.00	Reconciled
377995	15-JUN-17	BLACK & VEATCH CORPORATION		255,329.25	23-JUN-17	255,329.25	Reconciled
377996	15-JUN-17	BLAIRS TOWING INC		209.00	23-JUN-17	209.00	Reconciled
377997	15-JUN-17	BORCHARD SURVEYING & MAPPING, INC.		3,042.50	28-JUN-17	3,042.50	Reconciled
377998	15-JUN-17	BRENNTAG PACIFIC INC		3,680.00	19-JUN-17	3,680.00	Reconciled
377999	15-JUN-17	BURKE, WILLIAMS & SORENSEN, LLP		2,502.50	20-JUN-17	2,502.50	Reconciled
378000	15-JUN-17	C WELLS PIPELINE MATERIALS INC		59,305.61	23-JUN-17	59,305.61	Reconciled
378001	15-JUN-17	CALIFORNIA BARRICADE RENTAL, INC.		5,055.00	21-JUN-17	5,055.00	Reconciled
378002	15-JUN-17	CALIFORNIA TRUSFRAME, LLC		3,044.96	19-JUN-17	3,044.96	Reconciled
378003	15-JUN-17	CANON FINANCIAL SERVICES, INC		401.91	19-JUN-17	401.91	Reconciled
378004	15-JUN-17	CANON SOLUTIONS AMERICA, INC.		12.29	19-JUN-17	12.29	Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 15
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 Payment Type: All Display Supplier Address: No

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

378005	15-JUN-17	CDW GOVERNMENT LLC		2,023.51	21-JUN-17	2,023.51	Reconciled
378006	15-JUN-17	CITY OF IRVINE		408.97	16-JUN-17	408.97	Reconciled
378007	15-JUN-17	CITY OF IRVINE		997.35	20-JUN-17	997.35	Reconciled
378008	15-JUN-17	CITY OF TUSTIN		575.11	16-JUN-17	575.11	Reconciled
378009	15-JUN-17	CLARIS STRATEGY INC.		7,897.50	19-JUN-17	7,897.50	Reconciled
378010	15-JUN-17	CR & R INCORPORATED		405.65	20-JUN-17	405.65	Reconciled
378011	15-JUN-17	CULLIGAN OF SANTA ANA		3,008.55	20-JUN-17	3,008.55	Reconciled
378012	15-JUN-17	D & G SIGNS		587.24	20-JUN-17	587.24	Reconciled
378013	15-JUN-17	D & H WATER SYSTEMS INC.		777.74	20-JUN-17	777.74	Reconciled
378014	15-JUN-17	DEE JASPAR & ASSOCIATES, INC.		21,011.69	27-JUN-17	21,011.69	Reconciled
378015	15-JUN-17	DISCOUNT COURIER SERVICE		91.32	16-JUN-17	91.32	Reconciled
378016	15-JUN-17	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY		23,923.68	22-JUN-17	23,923.68	Reconciled
378017	15-JUN-17	DLT SOLUTIONS LLC		69,413.12	22-JUN-17	69,413.12	Reconciled
378018	15-JUN-17	DMS FACILITY SERVICES, INC.		18,286.93	21-JUN-17	18,286.93	Reconciled
378019	15-JUN-17	DUDLEY RIDGE WATER DISTRICT		4,666.12	20-JUN-17	4,666.12	Reconciled
378020	15-JUN-17	EHS INTERNATIONAL, INC		1,800.00	19-JUN-17	1,800.00	Reconciled
378021	15-JUN-17	EMD MILLIPORE CORPORATION		1,524.07	21-JUN-17	1,524.07	Reconciled
378022	15-JUN-17	EMEDCO		3,486.35	20-JUN-17	3,486.35	Reconciled
378023	15-JUN-17	ENVIRONMENTAL EXPRESS INC		2,065.70	19-JUN-17	2,065.70	Reconciled
378024	15-JUN-17	ENVIRONMENTAL RESOURCE ASSOCIATES		1,118.07	20-JUN-17	1,118.07	Reconciled
378025	15-JUN-17	EVANS-HYDRO INC		30,221.02			Negotiable
378026	15-JUN-17	FARRELL & ASSOCIATES		435.80	19-JUN-17	435.80	Reconciled
378027	15-JUN-17	FEDEX		303.88	20-JUN-17	303.88	Reconciled
378028	15-JUN-17	FISHER SCIENTIFIC COMPANY LLC		554.48	19-JUN-17	554.48	Reconciled
378029	15-JUN-17	FOOTHILL/EASTERN TRANSPORTATION		4,650.00	22-JUN-17	4,650.00	Reconciled
378030	15-JUN-17	FRONTIER CALIFORNIA INC.		50.99	21-JUN-17	50.99	Reconciled
378031	15-JUN-17	GANAHL LUMBER CO.		407.74	22-JUN-17	407.74	Reconciled

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

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
378032		15-JUN-17	GEORGE HILLS COMPANY, INC.		42.50	21-JUN-17	42.50	Reconciled
378033		15-JUN-17	GOODWIN ENTERPRISES INC.		77,000.00	30-JUN-17	77,000.00	Reconciled
378034		15-JUN-17	GRAINGER		5,927.97	19-JUN-17	5,927.97	Reconciled
378035		15-JUN-17	HACH COMPANY		3,876.51	19-JUN-17	3,876.51	Reconciled
378036		15-JUN-17	HARRY H. KOBZEFF		14,560.00	21-JUN-17	14,560.00	Reconciled
378037		15-JUN-17	HASLER INC.		3,500.00	22-JUN-17	3,500.00	Reconciled
378038		15-JUN-17	HDR ENGINEERING INC		20,058.60	21-JUN-17	20,058.60	Reconciled
378039		15-JUN-17	HEALTH SCIENCE ASSOCIATES, INC.		1,329.00	26-JUN-17	1,329.00	Reconciled
378040		15-JUN-17	HELPMATES STAFFING SERVICES		6,910.70	16-JUN-17	6,910.70	Reconciled
378041		15-JUN-17	HILL BROTHERS CHEMICAL COMPANY		2,433.48	20-JUN-17	2,433.48	Reconciled
378042		15-JUN-17	HINSILBLON LTD		1,235.00	22-JUN-17	1,235.00	Reconciled
378043		15-JUN-17	HOME DEPOT USA INC		471.23			Negotiable
378044		15-JUN-17	HOME DEPOT USA INC		112.35	20-JUN-17	112.35	Reconciled
378045		15-JUN-17	INDUSTRIAL METAL SUPPLY CO		702.21	19-JUN-17	702.21	Reconciled
378046		15-JUN-17	IRON MOUNTAIN INFORMATION MANAGEMENT INC		1,370.54	19-JUN-17	1,370.54	Reconciled
378047		15-JUN-17	IRVINE COMMUNITY DEVELOPMENT COMPANY LLC		441,153.20	26-JUN-17	441,153.20	Reconciled
378048		15-JUN-17	IRVINE PIPE & SUPPLY INC		1,027.24	16-JUN-17	1,027.24	Reconciled
378049		15-JUN-17	IRWD-PETTY CASH CUSTODIAN		969.41	20-JUN-17	969.41	Reconciled
378050		15-JUN-17	JCI JONES CHEMICALS INC		5,620.55	20-JUN-17	5,620.55	Reconciled
378051		15-JUN-17	KB HOMES		280.54			Negotiable
378052		15-JUN-17	KILL-N-BUGS TERMITE AND PEST CONTROL SERVICES		1,725.00	20-JUN-17	1,725.00	Reconciled
378053		15-JUN-17	KLEINFELDER, INC.		17,348.77	21-JUN-17	17,348.77	Reconciled
378054		15-JUN-17	KONECRANES INC		4,332.00	20-JUN-17	4,332.00	Reconciled
378055		15-JUN-17	LA HABRA FENCE COMPANY INC		6,618.00	23-JUN-17	6,618.00	Reconciled
378056		15-JUN-17	LANDCARE HOLDINGS, INC.		26,222.43	22-JUN-17	26,222.43	Reconciled
378057		15-JUN-17	LOWE'S HIW INC. (HOME IMPROVEMENT WAREHOUSE)		495.62	21-JUN-17	495.62	Reconciled

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Payment Document : IRWD CHECK								
378058		15-JUN-17	MARK ENTERPRISES, INC.		44,200.00	20-JUN-17	44,200.00	Reconciled
378059		15-JUN-17	MC FADDE-DALE INDUSTRIAL		197.13	19-JUN-17	197.13	Reconciled
378060		15-JUN-17	MC MASTER CARR SUPPLY CO		490.90	19-JUN-17	490.90	Reconciled
378061		15-JUN-17	MICHAEL BAKER INTERNATIONAL, INC.		246.00	20-JUN-17	246.00	Reconciled
378062		15-JUN-17	NATIONAL READY MIXED CONCRETE CO.		2,281.50	19-JUN-17	2,281.50	Reconciled
378063		15-JUN-17	NATURES IMAGE INC		5,202.50	20-JUN-17	5,202.50	Reconciled
378064		15-JUN-17	NEWAGE INDUSTRIES INC		478.52	19-JUN-17	478.52	Reconciled
378065		15-JUN-17	NINYO & MOORE		10,823.00	21-JUN-17	10,823.00	Reconciled
378066		15-JUN-17	NMG GEOTECHNICAL INC		4,188.90	23-JUN-17	4,188.90	Reconciled
378067		15-JUN-17	O.I. ANALYTICAL		197.02	20-JUN-17	197.02	Reconciled
378068		15-JUN-17	OLIN CORPORATION		8,779.73	19-JUN-17	8,779.73	Reconciled
378069		15-JUN-17	ONESOURCE DISTRIBUTORS LLC		10,143.23	20-JUN-17	10,143.23	Reconciled
378070		15-JUN-17	ORACLE AMERICA, INC.		192,681.50	21-JUN-17	192,681.50	Reconciled
378071		15-JUN-17	ORANGE COUNTY AUTO PARTS CO		453.95	19-JUN-17	453.95	Reconciled
378072		15-JUN-17	ORANGE COUNTY FIRE AUTHORITY		1,480.00	20-JUN-17	1,480.00	Reconciled
378073		15-JUN-17	PACIFIC GAS AND ELECTRIC COMPANY		110.17	19-JUN-17	110.17	Reconciled
378074		15-JUN-17	PAPER DEPOT DOCUMENT DESTRUCTION LLC		900.00	23-JUN-17	900.00	Reconciled
378075		15-JUN-17	PARKHOUSE TIRE INC		2,006.84	20-JUN-17	2,006.84	Reconciled
378076		15-JUN-17	PASCAL & LUDWIG CONSTRUCTORS		19,514.68	22-JUN-17	19,514.68	Reconciled

378077	15-JUN-17	PASCAL & LUDWIG CONSTRUCTORS	370,778.84	22-JUN-17	370,778.84	Reconciled
378078	15-JUN-17	PAULUS ENGINEERING, INC.	59,148.70	21-JUN-17	59,148.70	Reconciled
378079	15-JUN-17	PELLETIER & ASSOCIATES, INC.	745.00	20-JUN-17	745.00	Reconciled
378080	15-JUN-17	PHIPPS & BIRD, INC.	512.48	20-JUN-17	512.48	Reconciled
378081	15-JUN-17	PILLSBURY WINTHROP SHAW PITTMAN LLP	2,418.00	19-JUN-17	2,418.00	Reconciled
378082	15-JUN-17	POLLARDWATER.COM	4,465.35	20-JUN-17	4,465.35	Reconciled

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378083		15-JUN-17	PRAXAIR DISTRIBUTION INC		1,242.80	19-JUN-17	1,242.80	Reconciled
378084		15-JUN-17	PSOMAS		7,742.18	19-JUN-17	7,742.18	Reconciled
378085		15-JUN-17	PURE EFFECT INC		10,710.00	22-JUN-17	10,710.00	Reconciled
378086		15-JUN-17	R&B AUTOMATION, INC.		13,271.16	28-JUN-17	13,271.16	Reconciled
378087		15-JUN-17	RAINBOW DISPOSAL CO INC		357.36	21-JUN-17	357.36	Reconciled
378088		15-JUN-17	RAM AIR ENGINEERING INC		3,520.00	27-JUN-17	3,520.00	Reconciled
378089		15-JUN-17	RANCHO MONTEREY APTS		261.26	29-JUN-17	261.26	Reconciled
378090		15-JUN-17	RED WING SHOE STORE		464.93	19-JUN-17	464.93	Reconciled
378091		15-JUN-17	RESA POWER SOLUTIONS - TRANSFORMER SERVICES, LLC		5,297.00	23-JUN-17	5,297.00	Reconciled
378092		15-JUN-17	RESA POWER SOLUTIONS LLC		902.00	19-JUN-17	902.00	Reconciled
378093		15-JUN-17	RHINO SAFETY SOLUTIONS, INC		900.00	22-JUN-17	900.00	Reconciled
378094		15-JUN-17	RICHARD C. SLADE & ASSOCIATES LLC		997.50			Negotiable
378095		15-JUN-17	RITEWAY AUTO PAINT & BODYWORKS		1,707.90	19-JUN-17	1,707.90	Reconciled
378096		15-JUN-17	ROSEDALE - RIO BRAVO WATER STORAGE DISTRICT		368,817.41	22-JUN-17	368,817.41	Reconciled
378097		15-JUN-17	RS HUGHES COMPANY, INC.		1,183.10	20-JUN-17	1,183.10	Reconciled
378098		15-JUN-17	SALIB, JULIE		257.00	22-JUN-17	257.00	Reconciled
378099		15-JUN-17	SAN MARINO APTS		27.29	29-JUN-17	27.29	Reconciled
378100		15-JUN-17	SANTA ANA BLUE PRINT		309.92	19-JUN-17	309.92	Reconciled
378101		15-JUN-17	SANTA MARGARITA FORD		398.36	19-JUN-17	398.36	Reconciled
378102		15-JUN-17	SECURITAS SECURITY SERVICES USA, INC.		29,433.32	20-JUN-17	29,433.32	Reconciled
378103		15-JUN-17	SEPARATION PROCESSES INC		100.50	22-JUN-17	100.50	Reconciled
378104		15-JUN-17	SITMATIC		1,376.98			Negotiable
378105		15-JUN-17	SMITH, DOUGLAS		354.75			Negotiable
378106		15-JUN-17	SOLEDAD, MARIA		33.36	19-JUN-17	33.36	Reconciled
378107		15-JUN-17	SOUTH COAST WATER CO.		151.66	20-JUN-17	151.66	Reconciled

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378108		15-JUN-17	SOUTH COAST WATER DISTRICT		312.01	19-JUN-17	312.01	Reconciled
378109		15-JUN-17	SOUTHERN CALIFORNIA EDISON COMPANY		55,823.01	21-JUN-17	55,823.01	Reconciled
378110		15-JUN-17	SOUTHERN CALIFORNIA SECURITY CENTERS, INC.		568.11	27-JUN-17	568.11	Reconciled
378111		15-JUN-17	SOUTHERN CALIFORNIA WATER COMMITTEE INC		2,500.00	28-JUN-17	2,500.00	Reconciled
378112		15-JUN-17	SOUTHERN COUNTIES LUBRICANTS LLC		1,759.46	20-JUN-17	1,759.46	Reconciled
378113		15-JUN-17	SPARKLETTS		339.26	22-JUN-17	339.26	Reconciled
378114		15-JUN-17	SPATIAL WAVE, INC.		3,500.00	20-JUN-17	3,500.00	Reconciled

378115	15-JUN-17	STANDARD & POOR'S FINANCIAL SERVICES LLC	3,500.00	19-JUN-17	3,500.00	Reconciled
378116	15-JUN-17	SUKLE ADVERTISING INC.	57,229.36	27-JUN-17	57,229.36	Reconciled
378117	15-JUN-17	TETRA TECH, INC	7,920.66	20-JUN-17	7,920.66	Reconciled
378118	15-JUN-17	THE GAS COMPANY	680.85	21-JUN-17	680.85	Reconciled
378119	15-JUN-17	TIC-RETAIL PROPERTIES	14.18	22-JUN-17	14.18	Reconciled
378120	15-JUN-17	TIGERCOMM LLC	3,750.00	21-JUN-17	3,750.00	Reconciled
378121	15-JUN-17	TITUS INDUSTRIAL GROUP, INC.	9,636.43	21-JUN-17	9,636.43	Reconciled
378122	15-JUN-17	TOTAL RESOURCE MANAGEMENT, INC.	113,120.00	26-JUN-17	113,120.00	Reconciled
378123	15-JUN-17	TRI COUNTY PUMP COMPANY	16,823.93	21-JUN-17	16,823.93	Reconciled
378124	15-JUN-17	TROPICAL PLAZA NURSERY INC	30,393.88	21-JUN-17	30,393.88	Reconciled
378125	15-JUN-17	TRUCPARCO	1,171.87	22-JUN-17	1,171.87	Reconciled
378126	15-JUN-17	TYCO INTEGRATED SECURITY, LLC	458.00	20-JUN-17	458.00	Reconciled
378127	15-JUN-17	ULINE INC	398.11	26-JUN-17	398.11	Reconciled
378128	15-JUN-17	VILLAGE AT PARK PLACE, L.P.	294,226.34	23-JUN-17	294,226.34	Reconciled
378129	15-JUN-17	VWR INTERNATIONAL, LLC	1,108.36	20-JUN-17	1,108.36	Reconciled
378130	15-JUN-17	WASTE MANAGEMENT OF ORANGE COUNTY	663.90	19-JUN-17	663.90	Reconciled
378131	15-JUN-17	WATERSMART SOFTWARE, INC	13,597.50	21-JUN-17	13,597.50	Reconciled

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378132		15-JUN-17	WAXIE'S ENTERPRISES, INC		506.69	19-JUN-17	506.69	Reconciled
378133		15-JUN-17	WECK LABORATORIES INC		28,535.00	21-JUN-17	28,535.00	Reconciled
378134		15-JUN-17	WEST COAST SAND & GRAVEL INC.		805.29	20-JUN-17	805.29	Reconciled
378135		15-JUN-17	WILMINGTON INSTRUMENT COMPANY INC		2,348.95	21-JUN-17	2,348.95	Reconciled
378136		15-JUN-17	WU, DAN		3,234.74	03-JUL-17	3,234.74	Reconciled
378137		15-JUN-17	YP LLC		125.00	22-JUN-17	125.00	Reconciled
378138		15-JUN-17	ZENON ENVIRONMENTAL CORPORATION		2,844.96	19-JUN-17	2,844.96	Reconciled
378139		19-JUN-17	ORANGE COUNTY SANITATION DISTRICT	FOUNTAIN VALLEY	94,764.31	21-JUN-17	94,764.31	Reconciled
378140		19-JUN-17	JCI JONES CHEMICALS INC	TAMPA	2,935.30	23-JUN-17	2,935.30	Reconciled
378141		21-JUN-17	CISNEROS, ERICK	PAY	193.64			Voided
378142		22-JUN-17	Compton, Christine A		23.86			Negotiable
378143		22-JUN-17	Figueroa, Jorge (Jorge)		750.00	27-JUN-17	750.00	Reconciled
378144		22-JUN-17	Gallegos, Richard (Richard)		172.00	23-JUN-17	172.00	Reconciled
378145		22-JUN-17	Johnson, Dane		35.60			Negotiable
378146		22-JUN-17	Legault, Dan (Dan)		750.00	26-JUN-17	750.00	Reconciled
378147		22-JUN-17	Perry, Ricky A (Rick)		750.00	27-JUN-17	750.00	Reconciled
378148		22-JUN-17	Saini, Mohit		17.67	22-JUN-17	17.67	Reconciled
378149		22-JUN-17	Sanchez, Fiona M (Fiona)		21.33	30-JUN-17	21.33	Reconciled
378150		22-JUN-17	Sanchez, Hector A (Hector)		750.00	26-JUN-17	750.00	Reconciled
378151		22-JUN-17	Weghorst, Paul A (Paul)		40.85	22-JUN-17	40.85	Reconciled
378152		22-JUN-17	Wilson, Brett		748.74	26-JUN-17	748.74	Reconciled
378153		22-JUN-17	ALL AMERICAN SEWER TOOLS		1,722.97	28-JUN-17	1,722.97	Reconciled
378154		22-JUN-17	AMERICAN TRAINING RESOURCES, INC		1,076.68	26-JUN-17	1,076.68	Reconciled
378155		22-JUN-17	ANDERSONPENNA PARTNERS, INC.		44,712.00	28-JUN-17	44,712.00	Reconciled
378156		22-JUN-17	ANTHEM BLUE CROSS		208.43	27-JUN-17	208.43	Reconciled
378157		22-JUN-17	ANTHEM BLUE CROSS		546.33	27-JUN-17	546.33	Reconciled

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Payment Document : IRWD CHECK

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
378158		22-JUN-17	ANTHEM BLUE CROSS		281.97	27-JUN-17	281.97	Reconciled
378159		22-JUN-17	ANTHEM BLUE CROSS		546.33	27-JUN-17	546.33	Reconciled
378160		22-JUN-17	ANTHONY EVERETT DEVELOPMENT INC		1,084.23	26-JUN-17	1,084.23	Reconciled
378161		22-JUN-17	AONO, MARISSA		11.72			Negotiable
378162		22-JUN-17	APEX LIFE SCIENCES, LLC		2,660.00	26-JUN-17	2,660.00	Reconciled
378163		22-JUN-17	AQUA BEN CORPORATION		33,790.40	28-JUN-17	33,790.40	Reconciled
378164		22-JUN-17	AT&T		6,756.60	26-JUN-17	6,756.60	Reconciled
378165		22-JUN-17	AT&T		3,783.65	27-JUN-17	3,783.65	Reconciled
378166		22-JUN-17	AT&T INTERNET SERVICES		1,264.30	26-JUN-17	1,264.30	Reconciled
378167		22-JUN-17	ATTEBERRY, AMY		25.00			Negotiable
378168		22-JUN-17	AUTOZONE PARTS, INC.		483.36	27-JUN-17	483.36	Reconciled
378169		22-JUN-17	AVISTA TECHNOLOGIES, INC		8,317.27	27-JUN-17	8,317.27	Reconciled
378170		22-JUN-17	BEHRENS AND ASSOCIATES, INC.		126,399.62	29-JUN-17	126,399.62	Reconciled
378171		22-JUN-17	BGDOIAN, TINA		2.54			Negotiable
378172		22-JUN-17	BIOMAGIC INC		13,223.08			Negotiable
378173		22-JUN-17	BLOOMBERG FINANCE LP		12,570.00	29-JUN-17	12,570.00	Reconciled
378174		22-JUN-17	BORCHARD SURVEYING & MAPPING, INC.		912.50	28-JUN-17	912.50	Reconciled
378175		22-JUN-17	BOWIE, ARNESON, WILES & GIANNONE		9,643.93			Negotiable
378176		22-JUN-17	BUILDING SAFETY SOLUTIONS, INC.		130.54	26-JUN-17	130.54	Reconciled
378177		22-JUN-17	BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC		398.47	30-JUN-17	398.47	Reconciled
378178		22-JUN-17	BUSH & ASSOCIATES INC		5,820.00			Negotiable
378179		22-JUN-17	C WELLS PIPELINE MATERIALS INC		36,594.89	03-JUL-17	36,594.89	Reconciled
378180		22-JUN-17	CALIFORNIA BANK & TRUST		22,487.92	28-JUN-17	22,487.92	Reconciled
378181		22-JUN-17	CALIFORNIA BARRICADE RENTAL, INC.		455.00	23-JUN-17	455.00	Reconciled
378182		22-JUN-17	CALIFORNIA PACIFIC HOMES		809.04			Negotiable
378183		22-JUN-17	CANON FINANCIAL SERVICES, INC		9,291.83	26-JUN-17	9,291.83	Reconciled

IRWD Ledger Upgrade

BANK: Bank of America N.A.
 Bank Account Currency: USD (US Dollar)
 Payment Type: All

Branch : Los Angeles

Payment Register For 01-JUN-17 To 30-JUN-17

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 Payment Currency: USD (US Dollar)

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Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378184		22-JUN-17	CANON SOLUTIONS AMERICA, INC.		99.14	26-JUN-17	99.14	Reconciled
378185		22-JUN-17	CAROLLO ENGINEERS, INC		62,477.45	30-JUN-17	62,477.45	Reconciled
378186		22-JUN-17	CDG BULIDERS INC		910.42	26-JUN-17	910.42	Reconciled
378187		22-JUN-17	CDW GOVERNMENT LLC		2,502.34	28-JUN-17	2,502.34	Reconciled
378188		22-JUN-17	CHEM TECH INTERNATIONAL INC		41,749.47	03-JUL-17	41,749.47	Reconciled
378189		22-JUN-17	CIVILSOURCE, INC.		24,041.00			Negotiable
378190		22-JUN-17	CLA-VAL COMPANY		1,496.48	26-JUN-17	1,496.48	Reconciled
378191		22-JUN-17	COMMERCIAL DOOR OF ORANGE COUNTY, INC.		2,534.26	28-JUN-17	2,534.26	Reconciled
378192		22-JUN-17	D.R. HORTON WESTERN REGIONAL		48.06	30-JUN-17	48.06	Reconciled
378193		22-JUN-17	DAI, ZIJIAN		316.16			Negotiable
378194		22-JUN-17	DANDEKAR, CLARE		26.90			Negotiable
378195		22-JUN-17	DATA CLEAN CORPORATION		542.00	27-JUN-17	542.00	Reconciled
378196		22-JUN-17	DAVID WILSON'S FORD OF ORANGE		25,463.38	29-JUN-17	25,463.38	Reconciled
378197		22-JUN-17	DAVIS FARR LLP		12,000.00	29-JUN-17	12,000.00	Reconciled
378198		22-JUN-17	DENNIS E RISSER		186.48			Negotiable
378199		22-JUN-17	DIRECTV INC		120.51	27-JUN-17	120.51	Reconciled
378200		22-JUN-17	DISCOVERY SCIENCE CENTER OF ORANGE COUNTY		20,827.92	29-JUN-17	20,827.92	Reconciled
378201		22-JUN-17	DUDLEY RIDGE WATER DISTRICT		58,891.39	29-JUN-17	58,891.39	Reconciled
378202		22-JUN-17	EAGLE AERIAL PHOTOGRAPHY, INC.		42,284.55	30-JUN-17	42,284.55	Reconciled
378203		22-JUN-17	EMD MILLIPORE CORPORATION		118.99	26-JUN-17	118.99	Reconciled
378204		22-JUN-17	ENVIRONMENTAL SCIENCE ASSOCIATES		6,210.24	26-JUN-17	6,210.24	Reconciled

378205	22-JUN-17	EXECUTIVE LIGHTING & ELECTRIC		10,102.25	28-JUN-17	10,102.25	Reconciled
378206	22-JUN-17	EXPONENT, INC.		3,534.00	26-JUN-17	3,534.00	Reconciled
378207	22-JUN-17	FARRELL & ASSOCIATES		243.18	23-JUN-17	243.18	Reconciled
378208	22-JUN-17	FIRST AMERICAN TITLE CO.		750.00	03-JUL-17	750.00	Reconciled
378209	22-JUN-17	FIRST CHOICE SERVICES		400.63	26-JUN-17	400.63	Reconciled
378210	22-JUN-17	FISERV		16,250.30	27-JUN-17	16,250.30	Reconciled

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

Payment Register For 01-JUN-17 To 30-JUN-17
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378211		22-JUN-17	FISHER SCIENTIFIC COMPANY LLC		2,510.54	26-JUN-17	2,510.54	Reconciled
378212		22-JUN-17	FRONTIER CALIFORNIA INC.		520.94	28-JUN-17	520.94	Reconciled
378213		22-JUN-17	GANAHL LUMBER CO.		6,094.30	28-JUN-17	6,094.30	Reconciled
378214		22-JUN-17	GAO, YANG		127.30			Negotiable
378215		22-JUN-17	GARCIA, JACQUELINE		9.78			Negotiable
378216		22-JUN-17	GRAINGER		11,878.82	29-JUN-17	11,878.82	Reconciled
378217		22-JUN-17	GRAYBAR ELECTRIC COMPANY		4,080.09	26-JUN-17	4,080.09	Reconciled
378218		22-JUN-17	HACH COMPANY		18,381.91	28-JUN-17	18,381.91	Reconciled
378219		22-JUN-17	HARRINGTON INDUSTRIAL PLASTICS LLC		11,256.56	28-JUN-17	11,256.56	Reconciled
378220		22-JUN-17	HAYASHI, JULIE		42.04	27-JUN-17	42.04	Reconciled
378221		22-JUN-17	HDR ENGINEERING INC		736.63			Negotiable
378222		22-JUN-17	HELPMATES STAFFING SERVICES		4,094.98	23-JUN-17	4,094.98	Reconciled
378223		22-JUN-17	HILL BROTHERS CHEMICAL COMPANY		10,578.53	29-JUN-17	10,578.53	Reconciled
378224		22-JUN-17	HOME DEPOT USA INC		2,834.99	27-JUN-17	2,834.99	Reconciled
378225		22-JUN-17	HUANG, DAVID		32.44	26-JUN-17	32.44	Reconciled
378226		22-JUN-17	INDUSTRIAL ELECTRIC MACHINERY LLC		1,243.70	27-JUN-17	1,243.70	Reconciled
378227		22-JUN-17	IRVINE PIPE & SUPPLY INC		1,399.84	23-JUN-17	1,399.84	Reconciled
378228		22-JUN-17	JUST ENERGY SOLUTIONS INC.		235.37	26-JUN-17	235.37	Reconciled
378229		22-JUN-17	KB HOMES		111.07			Negotiable
378230		22-JUN-17	KILL-N-BUGS TERMITES AND PEST CONTROL SERVICES		200.00	29-JUN-17	200.00	Reconciled
378231		22-JUN-17	KIM, SOON TAE		1,800.00	27-JUN-17	1,800.00	Reconciled
378232		22-JUN-17	KLEINFELDER, INC.		2,985.00	26-JUN-17	2,985.00	Reconciled
378233		22-JUN-17	KTGY GROUP, INC.		16,252.50	29-JUN-17	16,252.50	Reconciled
378234		22-JUN-17	LARRY WALKER ASSOCIATES, INC.		3,805.00	30-JUN-17	3,805.00	Reconciled
378235		22-JUN-17	LCS TECHNOLOGIES, INC.		7,830.00	29-JUN-17	7,830.00	Reconciled
378236		22-JUN-17	LI, RONG		13.95			Negotiable
378237		22-JUN-17	LU'S LIGHTHOUSE, INC.		1,709.65	28-JUN-17	1,709.65	Reconciled
378238		22-JUN-17	LUBRICATION ENGINEERS, INC.		2,607.13	26-JUN-17	2,607.13	Reconciled

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

Payment Register For 01-JUN-17 To 30-JUN-17
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 Payment Currency: USD (US Dollar)
 Display Supplier Address: No

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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378239		22-JUN-17	MARINA LANDSCAPE MAINTENANCE, INC.		30,830.07	28-JUN-17	30,830.07	Reconciled
378240		22-JUN-17	MC FADDEN-DALE INDUSTRIAL		97.30	30-JUN-17	97.30	Reconciled
378241		22-JUN-17	MC MASTER CARR SUPPLY CO		1,017.23	26-JUN-17	1,017.23	Reconciled
378242		22-JUN-17	MCCLEMENT, ALEX		275.06			Negotiable
378243		22-JUN-17	METROSTUDY, INC.		13,168.25	27-JUN-17	13,168.25	Reconciled
378244		22-JUN-17	MSDSONLINE, INC.		3,749.00	26-JUN-17	3,749.00	Reconciled
378245		22-JUN-17	MUROW CM		5,270.00	23-JUN-17	5,270.00	Reconciled
378246		22-JUN-17	NAICS ASSOCIATION, LLC		1,539.00			Negotiable
378247		22-JUN-17	NOTO, THOMAS		63.87	26-JUN-17	63.87	Reconciled
378248		22-JUN-17	O'HAREN GOVERNMENT RELATIONS		6,500.00	30-JUN-17	6,500.00	Reconciled
378249		22-JUN-17	OLIN CORPORATION		17,438.40	03-JUL-17	17,438.40	Reconciled
378250		22-JUN-17	OMEGA INDUSTRIAL		192.31	26-JUN-17	192.31	Reconciled

378251	22-JUN-17	SUPPLY, INC. ONESOURCE	3,941.63	26-JUN-17	3,941.63	Reconciled
378252	22-JUN-17	DISTRIBUTORS LLC OPERATION	17,520.15			Negotiable
378253	22-JUN-17	TECHNOLOGY, INC ORANGE COUNTY AUTO PARTS CO	463.62	23-JUN-17	463.62	Reconciled
378254	22-JUN-17	ORANGE COUNTY HOSE	107.26	23-JUN-17	107.26	Reconciled
378255	22-JUN-17	ORANGE COUNTY SANITATION DISTRICT	523,021.00	28-JUN-17	523,021.00	Reconciled
378256	22-JUN-17	PARKHOUSE TIRE INC	2,186.13	26-JUN-17	2,186.13	Reconciled
378257	22-JUN-17	PINNACLE TOWERS LLC	692.68	26-JUN-17	692.68	Reconciled
378258	22-JUN-17	PPC VON KARMAN INVESTMENT LLC	1,010.05	27-JUN-17	1,010.05	Reconciled
378259	22-JUN-17	PROCARE WORK INJURY CENTER	1,030.00	27-JUN-17	1,030.00	Reconciled
378260	22-JUN-17	PSOMAS	5,440.00	26-JUN-17	5,440.00	Reconciled
378261	22-JUN-17	R&B AUTOMATION, INC.	10,830.63	30-JUN-17	10,830.63	Reconciled
378262	22-JUN-17	RAM AIR ENGINEERING INC	7,626.68	27-JUN-17	7,626.68	Reconciled
378263	22-JUN-17	REFRIGERATION SUPPLIES DISTRIBUTOR	7,587.04	27-JUN-17	7,587.04	Reconciled
378264	22-JUN-17	RELIANCE SAFETY CONSULTANTS, INC.	8,500.00	03-JUL-17	8,500.00	Reconciled

IRWD Ledger Upgrade
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 05-JUL-2017 09:19
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 25
 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								
378265		22-JUN-17	RELIANCE STANDARD LIFE INSURANCE COMPANY		25,897.30	30-JUN-17	25,897.30	Reconciled
378266		22-JUN-17	ROYAL WHOLESALE ELECTRIC		1,335.44	26-JUN-17	1,335.44	Reconciled
378267		22-JUN-17	SAN PAULO APTS		4.92	30-JUN-17	4.92	Reconciled
378268		22-JUN-17	SAN REMO APTS		94.00	29-JUN-17	94.00	Reconciled
378269		22-JUN-17	SANTA MARGARITA FORD		186.38	26-JUN-17	186.38	Reconciled
378270		22-JUN-17	SHEA/BAKER RANCH ASSOCIATES, LLC		927.17	30-JUN-17	927.17	Reconciled
378271		22-JUN-17	SHERWIN WILLIAMS COMPANY		1,418.16	27-JUN-17	1,418.16	Reconciled
378272		22-JUN-17	SIMPSON CHEVROLET OF GARDEN GROVE		53,431.14	28-JUN-17	53,431.14	Reconciled
378273		22-JUN-17	SMARTFISH CORP		13,306.00	03-JUL-17	13,306.00	Reconciled
378274		22-JUN-17	SNAP-ON INCORPORATED		9,016.47	27-JUN-17	9,016.47	Reconciled
378275		22-JUN-17	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		612.83	30-JUN-17	612.83	Reconciled
378276		22-JUN-17	SOUTH COAST ANSWERING SERVICE		612.43	26-JUN-17	612.43	Reconciled
378277		22-JUN-17	SOUTHERN CALIFORNIA EDISON COMPANY		1,260.00	26-JUN-17	1,260.00	Reconciled
378278		22-JUN-17	SOUTHERN CALIFORNIA EDISON COMPANY		9.24	26-JUN-17	9.24	Reconciled
378279		22-JUN-17	SOUTHERN CALIFORNIA EDISON COMPANY		464,843.35	23-JUN-17	464,843.35	Reconciled
378280		22-JUN-17	STANDARD REGISTER, INC.		2,559.11	26-JUN-17	2,559.11	Reconciled
378281		22-JUN-17	STANTEC CONSULTING SERVICES INC.		7,800.50	26-JUN-17	7,800.50	Reconciled
378282		22-JUN-17	STARR, MIKE		442.01	26-JUN-17	442.01	Reconciled
378283		22-JUN-17	STEVEN ENTERPRISES INC		859.07	23-JUN-17	859.07	Reconciled
378284		22-JUN-17	SUEZ TREATMENT SOLUTIONS INC.		6,376.91	27-JUN-17	6,376.91	Reconciled
378285		22-JUN-17	SUKLE ADVERTISING INC.		512.42			Negotiable
378286		22-JUN-17	SUNSHINE SUPPLY COMPANY, INC.		2,734.70	27-JUN-17	2,734.70	Reconciled
378287		22-JUN-17	SUSAN A. SIROTA		8,590.00	26-JUN-17	8,590.00	Reconciled

IRWD Ledger Upgrade
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 05-JUL-2017 09:19
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 26
 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								

378288	22-JUN-17	SYNERGY COMPANIES	119,832.53				Negotiable
378289	22-JUN-17	TANABE, TAKESHI	56.55	26-JUN-17	56.55		Reconciled
378290	22-JUN-17	THE GAS COMPANY	2,945.01				Negotiable
378291	22-JUN-17	THE IRVINE COMPANY LLC	260.00	30-JUN-17	260.00		Reconciled
378292	22-JUN-17	THE PARK @ SPECTRUM APARTMENTS	136.92	30-JUN-17	136.92		Reconciled
378293	22-JUN-17	THOMPSON INDUSTRIAL SUPPLY	1,559.95	26-JUN-17	1,559.95		Reconciled
378294	22-JUN-17	TIGERCOMM LLC	13,250.00	30-JUN-17	13,250.00		Reconciled
378295	22-JUN-17	TRI POINTE HOMES, INC.	25.51	30-JUN-17	25.51		Reconciled
378296	22-JUN-17	TRUCPARCO	1,191.80	28-JUN-17	1,191.80		Reconciled
378297	22-JUN-17	TSAI, HSIN-PING	11.53				Negotiable
378298	22-JUN-17	TUTTLE-CLICK FORD LINCOLN	28,021.60				Negotiable
378299	22-JUN-17	UNITED PARCEL SERVICE INC	89.37	26-JUN-17	89.37		Reconciled
378300	22-JUN-17	UNITED SITE SERVICES OF CALIFORNIA INC	478.06	27-JUN-17	478.06		Reconciled
378301	22-JUN-17	VAUGHAN'S INDUSTRIAL REPAIR CO INC	27,653.24	29-JUN-17	27,653.24		Reconciled
378302	22-JUN-17	VULCAN MATERIALS COMPANY	1,373.21	26-JUN-17	1,373.21		Reconciled
378303	22-JUN-17	WALTERS WHOLESALE ELECTRIC	23,927.02	28-JUN-17	23,927.02		Reconciled
378304	22-JUN-17	WANG, CHEN	226.04				Negotiable
378305	22-JUN-17	WARE MALCOMB	3,049.37	23-JUN-17	3,049.37		Reconciled
378306	22-JUN-17	WATERLINE TECHNOLOGIES INC	4,341.48	23-JUN-17	4,341.48		Reconciled
378307	22-JUN-17	WATERWISE CONSULTING, INC.	750.00	29-JUN-17	750.00		Reconciled
378308	22-JUN-17	WAXIE'S ENTERPRISES, INC	2,402.68	26-JUN-17	2,402.68		Reconciled
378309	22-JUN-17	WECK LABORATORIES INC	4,765.00	29-JUN-17	4,765.00		Reconciled
378310	22-JUN-17	WEI, JINGXIU	11.50				Negotiable
378311	22-JUN-17	WEST COAST SAFETY SUPPLY INC	4,757.25				Negotiable
378312	22-JUN-17	WEST COAST SAND & GRAVEL INC.	1,293.68	26-JUN-17	1,293.68		Reconciled
378313	22-JUN-17	WESTERN AV	10,925.36	29-JUN-17	10,925.36		Reconciled

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 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 27
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378314		22-JUN-17	WIRELESS WATCHDOGS, LLC		612.00	27-JUN-17	612.00	Reconciled
378315		22-JUN-17	WONG, STEPHANIE		33.69			Negotiable
378316		22-JUN-17	ZEE MEDICAL SERVICE CO		859.44	23-JUN-17	859.44	Reconciled
378317		23-JUN-17	PERS LONG TERM CARE	PASADENA	878.66			Negotiable
378318		23-JUN-17	ORANGE COUNTY SHERIFF'S OFFICE	4601 JAMBOREE	62.50	30-JUN-17	62.50	Reconciled
378319		23-JUN-17	CLEARINGHOUSE	PHOENIX	477.67	29-JUN-17	477.67	Reconciled
378320		23-JUN-17	IRWD EMPLOYEE ASSOCIATION	15600 SC	1,385.00			Negotiable
378321		27-JUN-17	DEPARTMENT OF CONSUMER AFFAIRS	1 SACRAMENTO	120.00	30-JUN-17	120.00	Reconciled
378322		27-JUN-17	JCI JONES CHEMICALS INC	TAMPA	5,255.25			Negotiable
378323		29-JUN-17	NATURES IMAGE INC	LAKE FOREST	385.00	03-JUL-17	385.00	Reconciled
378324		29-JUN-17	Baquerizo, Joseph		145.63			Negotiable
378325		29-JUN-17	Clary, Cheryl L		8.47			Negotiable
378326		29-JUN-17	Compton, Christine A		73.19			Negotiable
378327		29-JUN-17	Cook, Paul A (Paul)		138.00	30-JUN-17	138.00	Reconciled
378328		29-JUN-17	Fournier, Tanja L (Tanja)		67.84	29-JUN-17	67.84	Reconciled
378329		29-JUN-17	Hankla, Jeremy		50.00			Negotiable
378330		29-JUN-17	Ho, Connie		7.60	30-JUN-17	7.60	Reconciled
378331		29-JUN-17	Kallo, John		260.00			Negotiable
378332		29-JUN-17	Matheis, Mary Aileen		1,353.83			Negotiable
378333		29-JUN-17	Nash, Joel		38.52			Negotiable
378334		29-JUN-17	Oldewage, Lars D (Lars)		346.79	03-JUL-17	346.79	Reconciled
378335		29-JUN-17	Olson, Richard Jr (Richard)		225.00	03-JUL-17	225.00	Reconciled
378336		29-JUN-17	Pan, Jenny W (Jenny)		796.92	03-JUL-17	796.92	Reconciled

378337	29-JUN-17	Pascual, Allan	183.05	30-JUN-17	183.05	Reconciled
378338	29-JUN-17	Pfister, Ken D (Ken)	107.74			Negotiable
378339	29-JUN-17	Seesangrit, Melody M	235.06	29-JUN-17	235.06	Reconciled
378340	29-JUN-17	A AND Y COMPANY INC	3,000.00			Negotiable
378341	29-JUN-17	ACCUSTANDARD INC	320.06	03-JUL-17	320.06	Reconciled

IRWD Ledger Upgrade
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 05-JUL-2017 09:19
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378342		29-JUN-17	AECOM TECHNICAL SERVICES, INC.		146,400.48			Negotiable
378343		29-JUN-17	AFLAC		203.12			Negotiable
378344		29-JUN-17	AFLAC		6,704.46			Negotiable
378345		29-JUN-17	ALBANO, JAIME		5.51			Negotiable
378346		29-JUN-17	ALVAREZ, FRANCISCO		100.65			Negotiable
378347		29-JUN-17	AMPCO CONTRACTING INC		751.62			Negotiable
378348		29-JUN-17	ANTHONY N. LARSEN		400.00			Negotiable
378349		29-JUN-17	APEX LIFE SCIENCES, LLC		2,082.50			Negotiable
378350		29-JUN-17	AQUA-METRIC SALES COMPANY		10,656.01			Negotiable
378351		29-JUN-17	ARIZONA PIPELINE COMPANY		1,011.50			Negotiable
378352		29-JUN-17	AT&T		246.60			Negotiable
378353		29-JUN-17	AUTOZONE PARTS, INC.		1,096.70			Negotiable
378354		29-JUN-17	BANK OF NEW YORK MELLON TRUST COMPANY NA		1,271.30			Negotiable
378355		29-JUN-17	BARTEL ASSOCIATES, LLC		17,699.00			Negotiable
378356		29-JUN-17	BATTERIES PLUS AND BATTERIES PLUS BULBS		96.92	03-JUL-17	96.92	Reconciled
378357		29-JUN-17	BC WIRE ROPE & RIGGING		2,231.65	03-JUL-17	2,231.65	Reconciled
378358		29-JUN-17	BEHRENS AND ASSOCIATES, INC.		2,275.00			Negotiable
378359		29-JUN-17	BERK, SUSAN		9,500.00			Negotiable
378360		29-JUN-17	BEST DRILLING AND PUMP, INC.		105,203.00			Negotiable
378361		29-JUN-17	BEST MANAGEMENT CONSTRUCTION, INC		2,679.49			Negotiable
378362		29-JUN-17	BIGWIG MONSTER, LLC		450.00			Negotiable
378363		29-JUN-17	BILL'S SWEEPING SERVICE INC		1,210.00			Negotiable
378364		29-JUN-17	BIOMAGIC INC		2,013.63	03-JUL-17	2,013.63	Reconciled
378365		29-JUN-17	BIOMAGIC INC		413.76			Negotiable
378366		29-JUN-17	BLACK & VEATCH CORPORATION		216,616.49			Negotiable
378367		29-JUN-17	BLAIRS TOWING INC		250.00			Negotiable
378368		29-JUN-17	BLYTE REALTY INC.		1,763.13			Negotiable

IRWD Ledger Upgrade
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Report Date: 05-JUL-2017 09:19
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar) Page: 29
 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								
378369		29-JUN-17	BRENNTAG PACIFIC INC		26,991.29	03-JUL-17	26,991.29	Reconciled
378370		29-JUN-17	BRIGHTVIEW LANDSCAPE DEVELOPMENT		193.98			Negotiable
378371		29-JUN-17	BRYANT, HERBERT		19,527.00			Negotiable
378372		29-JUN-17	BURKE, WILLIAMS & SORENSEN, LLP		3,279.00			Negotiable
378373		29-JUN-17	BURLINGTON SAFETY LABORATORY OF CALIFORNIA INC		123.47	03-JUL-17	123.47	Reconciled
378374		29-JUN-17	BUTLER, KIKI		44.18	03-JUL-17	44.18	Reconciled
378375		29-JUN-17	C WELLS PIPELINE MATERIALS INC		25,420.71			Negotiable
378376		29-JUN-17	CALATLANTIC HOMES		279.54			Negotiable
378377		29-JUN-17	CALDESAL		5,000.00			Negotiable
378378		29-JUN-17	CALIFORNIA BARRICADE RENTAL, INC.		10,456.25			Negotiable
378379		29-JUN-17	CAMPBELL, NEIL		450.00			Negotiable

378380	29-JUN-17	CANON SOLUTIONS AMERICA, INC.	407.01				Negotiable
378381	29-JUN-17	CDG BUILDERS INC.	1,687.48				Negotiable
378382	29-JUN-17	CDW GOVERNMENT LLC	7,673.97				Negotiable
378383	29-JUN-17	CHEM TECH INTERNATIONAL INC	14,279.73				Negotiable
378384	29-JUN-17	CHEN, WU-LIEN	573.10				Negotiable
378385	29-JUN-17	CITY OF IRVINE	845,780.00				Negotiable
378386	29-JUN-17	CITY OF NEWPORT BEACH	1,120.27				Negotiable
378387	29-JUN-17	CITY OF NEWPORT BEACH	1,196.57				Negotiable
378388	29-JUN-17	CITY OF ORANGE	131.38	03-JUL-17	131.38		Reconciled
378389	29-JUN-17	CITY OF SANTA ANA	164.34	03-JUL-17	164.34		Reconciled
378390	29-JUN-17	CIVILSOURCE, INC.	34,885.00				Negotiable
378391	29-JUN-17	COASTLINE EQUIPMENT COMPANY	3,341.17				Negotiable
378392	29-JUN-17	COLEMAN, JAMES	168.00				Negotiable
378393	29-JUN-17	COLONIAL LIFE & ACCIDENT INSURANCE CO.	1,336.20				Negotiable
378394	29-JUN-17	CONZONE, BRYAN	9.56	03-JUL-17	9.56		Reconciled
378395	29-JUN-17	COUNTY OF RIVERSIDE	2,524.30				Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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								
378396		29-JUN-17	COX COMMUNICATIONS, INC.		3,370.94	03-JUL-17	3,370.94	Reconciled
378397		29-JUN-17	CSAC EXCESS INSURANCE AUTHORITY		285,970.00			Negotiable
378398		29-JUN-17	CULLIGAN OF SANTA ANA		7,019.95	03-JUL-17	7,019.95	Reconciled
378399		29-JUN-17	CYBERNETICS		16,784.00			Negotiable
378400		29-JUN-17	D & G SIGNS		1,556.99			Negotiable
378401		29-JUN-17	DANGELO CO		28,359.80			Negotiable
378402		29-JUN-17	DATASITE INC		23,454.00			Negotiable
378403		29-JUN-17	DAVID TAUSSIG & ASSOCIATES, INC.		3,018.93			Negotiable
378404		29-JUN-17	DELL MARKETING LP		1,375.40	03-JUL-17	1,375.40	Reconciled
378405		29-JUN-17	DENALI WATER SOLUTIONS LLC		7,918.40			Negotiable
378406		29-JUN-17	DIRECTV INC		116.60			Negotiable
378407		29-JUN-17	DMS FACILITY SERVICES, INC.		18,251.93			Negotiable
378408		29-JUN-17	DOWNSTREAM SERVICES, INC.		6,200.00			Negotiable
378409		29-JUN-17	DUKE'S ROOT CONTROL INC		64,999.86			Negotiable
378410		29-JUN-17	EI&C ENGINEERING INC		47,720.00			Negotiable
378411		29-JUN-17	ENVIRONMENTAL SCIENCE ASSOCIATES		510.00			Negotiable
378412		29-JUN-17	EXECUTIVE LIGHTING & ELECTRIC		5,186.57			Negotiable
378413		29-JUN-17	FARWEST CORROSION CONTROL COMPANY		535.90			Negotiable
378414		29-JUN-17	FEDEX		341.94			Negotiable
378415		29-JUN-17	FERGUSON ENTERPRISES, INC.		12,253.76			Negotiable
378416		29-JUN-17	FICARO, RON		18,600.00			Negotiable
378417		29-JUN-17	FIERRO, SERGIO D		3,324.99			Negotiable
378418		29-JUN-17	FISHER SCIENTIFIC COMPANY LLC		153.44	03-JUL-17	153.44	Reconciled
378419		29-JUN-17	FLEET SOLUTIONS LLC		4,821.10			Negotiable
378420		29-JUN-17	FREE, VINCE		46.04			Negotiable
378421		29-JUN-17	FRONTIER CALIFORNIA INC.		322.89			Negotiable
378422		29-JUN-17	FULLER TRUCK ACCESSORIES		1,186.88	03-JUL-17	1,186.88	Reconciled

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 31
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378423		29-JUN-17	GENERAL MONITORS INC.		2,143.15			Negotiable
378424		29-JUN-17	GENERAL PUMP		10,424.35			Negotiable

378425	29-JUN-17	COMPANY INC GENTERRA	2,048.00	03-JUL-17	2,048.00	Reconciled
378426	29-JUN-17	CONSULTANTS INC GRAINGER	7,272.85	03-JUL-17	7,272.85	Reconciled
378427	29-JUN-17	GRAYBAR ELECTRIC COMPANY	19,647.87			Negotiable
378428	29-JUN-17	HACH COMPANY	5,078.10			Negotiable
378429	29-JUN-17	HARDY & HARPER, INC.	638.69			Negotiable
378430	29-JUN-17	HARRINGTON INDUSTRIAL PLASTICS LLC	17,895.20			Negotiable
378431	29-JUN-17	HARTFORD LIFE AND ACCIDENT INSURANCE COMPANY	112.48	03-JUL-17	112.48	Reconciled
378432	29-JUN-17	HDR ENGINEERING INC	50,260.25			Negotiable
378433	29-JUN-17	HELP/SYSTEMS, LLC	19,300.00			Negotiable
378434	29-JUN-17	HELMATES STAFFING SERVICES	15,488.80			Negotiable
378435	29-JUN-17	HETZNER, PATRICIA & RONALD	1,353.98			Negotiable
378436	29-JUN-17	HILL BROTHERS CHEMICAL COMPANY	8,509.72			Negotiable
378437	29-JUN-17	HOME DEPOT USA INC	2,252.37			Negotiable
378438	29-JUN-17	HOPKINS TECHNICAL PRODUCTS INC	2,855.81			Negotiable
378439	29-JUN-17	HOWELL, CHUCK	1,071.07			Negotiable
378440	29-JUN-17	HSG INC	1,613.00			Negotiable
378441	29-JUN-17	IBM CORPORATION	4,075.00			Negotiable
378442	29-JUN-17	INDUSTRIAL METAL SUPPLY CO	122.67			Negotiable
378443	29-JUN-17	INDUSTRIAL SHOE CO	2,186.31			Negotiable
378444	29-JUN-17	IRELAND, INC.	26,499.00			Negotiable
378445	29-JUN-17	IRVINE PIPE & SUPPLY INC	2,777.47			Negotiable
378446	29-JUN-17	IRWD-PETTY CASH CUSTODIAN	1,370.22			Negotiable
378447	29-JUN-17	JOHNSON-PELTIER	42,465.19			Negotiable
378448	29-JUN-17	KIM, SEAN	7.08			Negotiable
378449	29-JUN-17	KIM, YUN	87.49			Negotiable
378450	29-JUN-17	KIMBALL MIDWEST	1,142.86	03-JUL-17	1,142.86	Reconciled

IRWD Ledger Upgrade
 BANK: Bank of America N.A. Branch : Los Angeles
 Bank Account Currency: USD (US Dollar)
 Payment Type: All
 Payment Register For 01-JUN-17 To 30-JUN-17
 Account: Checking AP and PR
 Payment Currency: USD (US Dollar)
 Display Supplier Address: No
 Report Date: 05-JUL-2017 09:19
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Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378451		29-JUN-17	KOELLER NEBEKER CARLSON & HALUCK, LLP		1,541.34			Negotiable
378452		29-JUN-17	KONECRANES INC		1,613.27			Negotiable
378453		29-JUN-17	LABWORKS		22,320.00			Negotiable
378454		29-JUN-17	LAGUNA BEACH COUNTY WATER DISTRICT		13,124.13			Negotiable
378455		29-JUN-17	LANDCARE HOLDINGS, INC.		37,156.57			Negotiable
378456		29-JUN-17	LARRY WALKER ASSOCIATES, INC.		3,190.00			Negotiable
378457		29-JUN-17	LEWIS BRISBOIS BISGAARD AND SMITH, LLP		684.20			Negotiable
378458		29-JUN-17	LEWIS INVESTMENT COMPANY, LLC		384,503.36			Negotiable
378459		29-JUN-17	LINE-X OF SOUTH COAST		988.74			Negotiable
378460		29-JUN-17	LINKEDIN CORPORATION		6,131.25			Negotiable
378461		29-JUN-17	LU'S LIGHTHOUSE, INC.		700.53			Negotiable
378462		29-JUN-17	MARINA LANDSCAPE MAINTENANCE, INC.		2,052.10	03-JUL-17	2,052.10	Reconciled
378463		29-JUN-17	MARVIN GARDENS LLC		2,593.70	29-JUN-17	2,593.70	Reconciled
378464		29-JUN-17	MBC APPLIED ENVIRONMENTAL SCIENCES		1,300.00			Negotiable
378465		29-JUN-17	MBF CONSULTING, INC.		2,717.50			Negotiable
378466		29-JUN-17	MC FADDEN-DALE INDUSTRIAL		175.20			Negotiable
378467		29-JUN-17	MC MASTER CARR SUPPLY CO		1,158.15			Negotiable
378468		29-JUN-17	MCCROMETER, INC.		1,416.09			Negotiable
378469		29-JUN-17	MICHAEL BAKER INTERNATIONAL, INC.		1,614.74			Negotiable
378470		29-JUN-17	MORRISROE, EDWARD		212.37			Negotiable
378471		29-JUN-17	MR CRANE INC		980.50	03-JUL-17	980.50	Reconciled
378472		29-JUN-17	MUKATASH, YAZEED		24.24			Negotiable

378473 29-JUN-17 NASIRZADEH, 11.83 Negotiable
 MEHRDAD
 378474 29-JUN-17 NATIONAL READY 1,170.46 03-JUL-17 1,170.46 Reconciled
 MIXED CONCRETE CO.
 IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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								
378475		29-JUN-17	NAZARI, KATE		367.49			Negotiable
378476		29-JUN-17	NINYO & MOORE		37,416.48			Negotiable
378477		29-JUN-17	OLIN CORPORATION		43,702.60			Negotiable
378478		29-JUN-17	ONESOURCE		13,039.20			Negotiable
378479		29-JUN-17	DISTRIBUTORS LLC					
			ORANGE COUNTY AUTO		767.37	03-JUL-17	767.37	Reconciled
			PARTS CO					
378480		29-JUN-17	ORANGE COUNTY		28,958,184.89			Negotiable
			SANITATION					
			DISTRICT					
378481		29-JUN-17	OSTS, INC		4,800.00			Negotiable
378482		29-JUN-17	OUTSOURCE		20,440.00			Negotiable
378483		29-JUN-17	TECHNICAL LLC					
			PACIFIC COAST BOLT		2,370.51			Negotiable
			CORP					
378484		29-JUN-17	PALL ADVANCED		20,250.00			Negotiable
			SEPARATIONS					
			SYSTEMS					
378485		29-JUN-17	PALO VERDE		104,251.00			Negotiable
			IRRIGATION					
			DISTRICT					
378486		29-JUN-17	PARKHOUSE TIRE INC		1,720.26			Negotiable
378487		29-JUN-17	PARKWAY LAWNMOWER		3,154.70			Negotiable
			SHOP					
378488		29-JUN-17	PASCAL & LUDWIG		19,039.54			Negotiable
			CONSTRUCTORS					
378489		29-JUN-17	PASCAL & LUDWIG		361,751.31			Negotiable
			CONSTRUCTORS					
378490		29-JUN-17	PAULUS		27,488.18			Negotiable
			ENGINEERING, INC.					
378491		29-JUN-17	PAYNE & FEARS LLP		8,586.71			Negotiable
378492		29-JUN-17	PENHALL COMPANY		800.00	03-JUL-17	800.00	Reconciled
378493		29-JUN-17	PLUMBERS DEPOT		1,442.68			Negotiable
			INC.					
378494		29-JUN-17	POLLARDWATER.COM		3,717.12			Negotiable
378495		29-JUN-17	PRE-PAID LEGAL		1,384.88			Negotiable
			SERVICES INC					
378496		29-JUN-17	PREMIER PAVING,		1,243.59			Negotiable
			INC					
378497		29-JUN-17	PRO MOBILE AUTO		550.00			Negotiable
			DETAILING					
378498		29-JUN-17	PROCARE WORK		830.00			Negotiable
			INJURY CENTER					
378499		29-JUN-17	PSOMAS		2,345.11	03-JUL-17	2,345.11	Reconciled
378500		29-JUN-17	PURE EFFECT INC		2,875.00			Negotiable
378501		29-JUN-17	QUEST SOFTWARE INC		10,037.02			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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								
378502		29-JUN-17	RAIN FOR RENT		10,469.09			Negotiable
378503		29-JUN-17	RAM AIR		247.50			Negotiable
378504		29-JUN-17	ENGINEERING INC					
			RED WING SHOE		758.54			Negotiable
			STORE					
378505		29-JUN-17	RED WING SHOE		358.00			Negotiable
			STORE					
378506		29-JUN-17	RELIANCE SAFETY		5,632.03			Negotiable
			CONSULTANTS, INC.					
378507		29-JUN-17	RESPONSE ENVELOPE,		2,618.33			Negotiable
			INC					
378508		29-JUN-17	RINCON TRUCK		12,093.28			Negotiable
			CENTER INC.					
378509		29-JUN-17	RITTEWAY AUTO PAINT		285.11			Negotiable
			& BODYWORKS					
378510		29-JUN-17	RMC WATER AND		20,311.60			Negotiable
			ENVIRONMENT					
378511		29-JUN-17	ROSEDALE - RIO		90,579.52			Negotiable
			BRAVO WATER					
			STORAGE DISTRICT					
378512		29-JUN-17	ROYAL WHOLESALE		976.17			Negotiable
			ELECTRIC					
378513		29-JUN-17	SADASIVUNI,		427.41			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
378514	29-JUN-17		RAVIKANT SANTA ANA BLUE PRINT		1,797.36			Negotiable
378515	29-JUN-17		SANTA MARGARITA FORD		226.87			Negotiable
378516	29-JUN-17		SANTA MARGARITA FORD		5,189.53			Negotiable
378517	29-JUN-17		SAVANT CONSTRUCTION, INC		1,335.47			Negotiable
378518	29-JUN-17		SCOTT HEALTH & SAFETY		116.37			Negotiable
378519	29-JUN-17		SEAL, HENRY		3,794.45			Negotiable
378520	29-JUN-17		SHAMROCK SUPPLY CO INC		1,611.09			Negotiable
378521	29-JUN-17		SIRIUS COMPUTER SOLUTIONS INC		99,970.32			Negotiable
378522	29-JUN-17		SMITH SYSTEM DRIVER IMPROVEMENT INSTITUTE, INC.		1,448.73			Negotiable
378523	29-JUN-17		SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT		2,964.62			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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 CHECK								
378524	29-JUN-17		SOUTHERN CALIFORNIA EDISON COMPANY		184,180.81			Negotiable
378525	29-JUN-17		SOUTHERN CALIFORNIA SECURITY CENTERS, INC.		286.58			Negotiable
378526	29-JUN-17		SPATIAL WAVE, INC.		2,810.00	03-JUL-17	2,810.00	Reconciled
378527	29-JUN-17		SPX CORP		144.22			Negotiable
378528	29-JUN-17		STANTEC CONSULTING SERVICES INC.		11,001.00			Negotiable
378529	29-JUN-17		STETSON ENGINEERS INC.		1,360.50	03-JUL-17	1,360.50	Reconciled
378530	29-JUN-17		SUEZ TREATMENT SOLUTIONS INC.		2,584.83			Negotiable
378531	29-JUN-17		SUMMIT CHEMICAL SPECIALTY PRODUCTS		10,546.80			Negotiable
378532	29-JUN-17		SUN, YELUN		10.38			Negotiable
378533	29-JUN-17		T.E. ROBERTS, INC.		33,780.88			Negotiable
378534	29-JUN-17		TEMPLEMAN, KELLY		106.68			Negotiable
378535	29-JUN-17		TESTAMERICA LABORATORIES, INC		906.15			Negotiable
378536	29-JUN-17		TETRA TECH, INC		16,062.00			Negotiable
378537	29-JUN-17		THE HELLAN STRAINER COMPANY		23,554.08			Negotiable
378538	29-JUN-17		TIMOTHY W. HOGAN		5,393.59	03-JUL-17	5,393.59	Reconciled
378539	29-JUN-17		TITUS INDUSTRIAL GROUP, INC.		6,517.88			Negotiable
378540	29-JUN-17		TRIPAC MARKETING INC		2,240.99	03-JUL-17	2,240.99	Reconciled
378541	29-JUN-17		TROPICAL PLAZA NURSERY INC		21,696.15			Negotiable
378542	29-JUN-17		TRUCPARCO		987.52			Negotiable
378543	29-JUN-17		TUTTLE-CLICK FORD LINCOLN		28,569.80			Negotiable
378544	29-JUN-17		ULTRA SCIENTIFIC		312.72			Negotiable
378545	29-JUN-17		UNITED SITE SERVICES OF CALIFORNIA INC		152.29			Negotiable
378546	29-JUN-17		UNITED WATER WORKS, INC.		522.05			Negotiable
378547	29-JUN-17		US BANK NAT'L ASSOCIATION NORTH DAKOTA		103,208.78			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 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 CHECK								
378548	29-JUN-17		VAUGHAN'S INDUSTRIAL REPAIR CO INC		4,574.08			Negotiable
378549	29-JUN-17		VEGA AMERICAS, INC		3,156.59	03-JUL-17	3,156.59	Reconciled
378550	29-JUN-17		VERIZON WIRELESS SERVICES LLC		6,724.64			Negotiable
378551	29-JUN-17		VWR INTERNATIONAL,		2,329.23	03-JUL-17	2,329.23	Reconciled

378552	29-JUN-17	LLC						
378553	29-JUN-17	W.M. LYLES CO			257,081.40			Negotiable
378554	29-JUN-17	W.M. LYLES CO			13,530.60			Negotiable
378555	29-JUN-17	WANG, JIAN			10.59			Negotiable
378556	29-JUN-17	WANG, LING LING			74.80			Negotiable
378557	29-JUN-17	WANG, WEI			726.51	03-JUL-17	726.51	Reconciled
		WATERLINE			2,840.00			Negotiable
		TECHNOLOGIES INC						
378558	29-JUN-17	WAXIE'S			1,628.94			Negotiable
		ENTERPRISES, INC						
378559	29-JUN-17	WECK LABORATORIES INC			2,125.00			Negotiable
		WEST COAST SAND & GRAVEL, INC.			479.25			Negotiable
378561	29-JUN-17	WESTERN AV			28,747.32			Negotiable
378562	29-JUN-17	WESTERN EXTERMINATOR COMPANY			10,120.00			Negotiable
		WOODBURY COMMUNITY ASSOCIATION			1,143.19			Negotiable
378564	29-JUN-17	XTREME PAVING AND GRADING			2,155.60			Negotiable
378565	29-JUN-17	YANG, YAORUNG H			31.54			Negotiable
378566	29-JUN-17	ZEBRON CONTRACTING INC			61,610.00			Negotiable
378567	29-JUN-17	ZEE MEDICAL SERVICE CO			229.46	03-JUL-17	229.46	Reconciled
378568	30-JUN-17	Hofman, Michael SHOME (Mike)			172.00			Negotiable
378569	30-JUN-17	Chauv, Denise HOME			4,344.55			Negotiable
378570	30-JUN-17	BANK OF NEW YORK MELLON TRUST COMPANY NA			1,361.40			Negotiable
		BROWN AND CALDWELL			22,450.10			Negotiable
378572	30-JUN-17	CITY OF IRVINE			1,750.00			Negotiable
378573	30-JUN-17	EAST ORANGE COUNTY WATER DISTRICT			7,640.82			Negotiable
378574	30-JUN-17	GRAINGER			27.83			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 37
 Bank Account Currency: USD (US Dollar) Payment Currency: USD (US Dollar)
 Payment Type: All Display Supplier Address: No

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
Payment Document : IRWD CHECK								
378575		30-JUN-17	H2O INNOVATION USA INC		3,950.48			Negotiable
378576		30-JUN-17	HARDY & HARPER INC		52,690.00			Negotiable
378577		30-JUN-17	HELPMATES STAFFING SERVICES		3,989.70			Negotiable
378578		30-JUN-17	KENNY THE PRINTER		641.44			Negotiable
378579		30-JUN-17	LSA ASSOCIATES INC		8,413.75			Negotiable
378580		30-JUN-17	MOULTON NIGUEL WATER DISTRICT		6,247.50			Negotiable
378581		30-JUN-17	OLIN CORPORATION		2,919.92			Negotiable
378582		30-JUN-17	ORANGE COUNTY MOSQUITO AND VECTOR CONTROL DISTRICT		256.34			Negotiable
378583		30-JUN-17	PASCAL & LUDWIG CONSTRUCTORS		83,377.23			Negotiable
378584		30-JUN-17	PASCAL & LUDWIG CONSTRUCTORS		4,388.27			Negotiable
378585		30-JUN-17	FSOMAS		433.75			Negotiable
378586		30-JUN-17	RED WING SHOE STORE		126.05			Negotiable
378587		30-JUN-17	RED WING SHOE STORE		150.30			Negotiable
378588		30-JUN-17	RINCON TRUCK CENTER INC.		779.77			Negotiable
378589		30-JUN-17	SANDERS PAVING INC		20,911.62			Negotiable
378590		30-JUN-17	SYNERGY COMPANIES		125,460.70			Negotiable
378591		30-JUN-17	THE FURMAN GROUP, INC.		12,540.00			Negotiable
378592		30-JUN-17	TOTAL RESOURCE MANAGEMENT, INC.		46,910.00			Negotiable
378593		30-JUN-17	WALTON MOTORS & CONTROLS INC		10,441.14			Negotiable
378594		30-JUN-17	WATERLINE TECHNOLOGIES INC		2,939.40			Negotiable
378595		30-JUN-17	NORMAN A. OLSSON CONSTRUCTION, INC.		221,159.62			Negotiable
Payment Document Subtotal:					44,956,481.57		9,595,364.26	
Payment Document : IRWD Wire								
12088		06-JUN-17	YORK INSURANCE SERVICES GROUP INC - CA	PAY	53,910.20			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 38
 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								
12089		09-JUN-17	CALPERS	SACRAMENTO 1	471,009.26			Negotiable
12090		09-JUN-17	CALPERS	SACRAMENTO 1	2,866.58			Negotiable
12091		12-JUN-17	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	541,321.84			Negotiable
12092		15-JUN-17	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	9,172.18			Negotiable
12093		19-JUN-17	BANK OF NEW YORK MELLON TRUST COMPANY NA	NEWARK	64,177.89			Negotiable
12094		19-JUN-17	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	6,677.75			Negotiable
12095		19-JUN-17	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	27,243.09			Negotiable
12096		20-JUN-17	BANK OF AMERICA	SAN FRANCISCO	26,147.22			Negotiable
12097		20-JUN-17	U.S. BANK NATIONALST. ASSOCIATION	LOUIS	13,230.00			Negotiable
12098		20-JUN-17	SUMITOMO MITSUI BANKING CORPORATION	NEW YORK	33,003.29			Negotiable
12099		20-JUN-17	YORK INSURANCE SERVICES GROUP INC - CA	PAY	7,257.77			Negotiable
12100		20-JUN-17	MUNICIPAL WATER DISTRICT OF ORANGEVALLEY COUNTY	FOUNTAIN	962,738.65			Negotiable
12101		20-JUN-17	YORK INSURANCE SERVICES GROUP INC - CA	PAY	9,503.17			Negotiable
12102		21-JUN-17	INTERNAL REVENUE SERVICE	FRESNO	199,382.47			Negotiable
12103		21-JUN-17	FRANCHISE TAX BOARD	SACRAMENTO	55,157.17			Negotiable
12104		21-JUN-17	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	11,932.64			Negotiable
12105		21-JUN-17	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	230.77			Negotiable
12106		21-JUN-17	CALIFORNIA DEPARTMENT OF CHILD SUPPORT SERVICES	SACRAMENTO	2,312.75			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 39
 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								
12107		21-JUN-17	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	12,113.09			Negotiable
12108		21-JUN-17	GREAT-WEST LIFE & ANNUNITY INSURANCE COMPANY	DENVER	119,716.73			Negotiable
12109		23-JUN-17	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	535,929.14			Negotiable
12110		23-JUN-17	MERRILL LYNCH CAPITAL SERVICES, INC	CHARLOTTE	535,929.14			Negotiable
12111		23-JUN-17	CITIGROUP GLOBAL MARKETS INC.	NEW YORK	789,057.58			Negotiable
12112		27-JUN-17	YORK INSURANCE SERVICES GROUP INC - CA	PAY	10,745.21			Negotiable
12113		28-JUN-17	INTERNAL REVENUE SERVICE	FRESNO	194,541.40			Negotiable
12114		28-JUN-17	FRANCHISE TAX BOARD	SACRAMENTO	52,788.21			Negotiable
12115		28-JUN-17	EMPLOYMENT DEVELOPMENT DEPARTMENT	W SACRAMENTO	11,648.06			Negotiable
12116		28-JUN-17	FILANC-BALFOUR BEATTY JV	ACT 4427724347	1,182,970.26			Negotiable
12117		28-JUN-17	ORDONEZ, CYNTHIA MARIE	DESERT HOT SPR	230.77			Negotiable
12118		28-JUN-17	CALIFORNIA DEPARTMENT OF	SACRAMENTO	2,312.75			Negotiable

Payment Number	Sequence Num	Date	Supplier Name	Site	Payment Amount	Cleared Date	Cleared Amount	Status
12119	28-JUN-17	CHILD SUPPORT SERVICES	EMPLOYEE BENEFIT SPECIALIST, INC	PAY	12,488.73			Negotiable
12120	28-JUN-17	GREAT-WEST LIFE & ANNUITY INSURANCE COMPANY	DENVER		120,225.60			Negotiable
12121	29-JUN-17	CALPERS	SACRAMENTO		86,341.84			Negotiable
12122	29-JUN-17	CALPERS	SACRAMENTO		86,565.70			Negotiable
12123	29-JUN-17	CALPERS	SACRAMENTO		4.80			Negotiable
12124	29-JUN-17	CALPERS	SACRAMENTO		88,227.24			Negotiable
12125	29-JUN-17	CALPERS	SACRAMENTO		661.20			Negotiable
12126	29-JUN-17	CALPERS	SACRAMENTO		88,569.49			Negotiable
12127	29-JUN-17	CALPERS	SACRAMENTO		88,857.42			Negotiable
12128	29-JUN-17	CALPERS	SACRAMENTO		639.36			Negotiable
12129	29-JUN-17	CALPERS	SACRAMENTO		88,726.50			Negotiable
12130	29-JUN-17	CALPERS	SACRAMENTO		88,986.32			Negotiable
12131	29-JUN-17	CALPERS	SACRAMENTO		89,303.54			Negotiable

IRWD Ledger Upgrade Payment Register For 01-JUN-17 To 30-JUN-17 Report Date: 05-JUL-2017 09:19
 BANK: Bank of America N.A. Branch : Los Angeles Account: Checking AP and PR Page: 40
 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								
12132	29-JUN-17	CALPERS	SACRAMENTO		661.20			Negotiable
12133	29-JUN-17	CALPERS	SACRAMENTO		90,204.99			Negotiable
12134	29-JUN-17	CALPERS	SACRAMENTO		89,499.36			Negotiable
12135	29-JUN-17	CALPERS	SACRAMENTO		661.20			Negotiable
12136	29-JUN-17	CALPERS	SACRAMENTO		89,885.09			Negotiable
12137	29-JUN-17	CALPERS	PAY		15,972.00			Negotiable

Payment Document Subtotal: 7,071,738.61

Bank Account Subtotal : 52,028,220.18 9,595,364.26

Report Count : 995 Report Total: 52,028,220.18 9,595,364.26

Disbursements

*** End of Report ***

\$ 52,028,220.18 Disbursements
 <54,641.68> Voids
 \$ 51,972,587.50 Total Disbursements and Voids

Exhibit "E"


IRWD Gov Code 53065.5 Disclosure Report

Payment or Reimbursements for Individual charges of \$100 or more per transaction for services or product received
01-JUN-17 to 30-JUN-17

NAME	CHECK NO.	CHECK DATE	AMOUNT	ITEM DESCRIPTION	EXPENSE JUSTIFICATION
Baquerizo, Joseph	378324	29-Jun-17	140.88	Lodging	CA Water Efficiency Partnership/Peer-to-Peer2017 Conference, San Diego, CA - May 31, 2017
Bennett, Ray	377960	15-Jun-17	163.71	Mileage	Rosedale-Rio Broavo DRP Project Tour/Inspection - January 27, 2017
Carlos, Alex	377651	1-Jun-17	210.00	Certification Renewal	ISA Certified Control Systems Technician Grade I
Carlos, Alex	377651	1-Jun-17	175.00	Certification	CWEA Electrical/Instrumentation Technician Grade II
Chauv, Denise	378569	30-Jun-17	1,450.00	Registration Fees	ThermoFisher Ion Chromatograph Chromeleon Training Courses, Bannockburn, IL - June 12-15, 2017
Chauv, Denise	378569	30-Jun-17	725.00	Registration Fees	ThermoFisher Ion Chromatograph Chromeleon Training Courses, Bannockburn, IL - June 12-15, 2017
Chauv, Denise	378569	30-Jun-17	725.00	Registration Fees	ThermoFisher Ion Chromatograph Chromeleon Training Courses, Bannockburn, IL - June 12-15, 2017
Chauv, Denise	378569	30-Jun-17	308.40	Airfare	ThermoFisher Ion Chromatograph Chromeleon Training Courses, Bannockburn, IL - June 12-15, 2017
Cook, Paul A	378327	29-Jun-17	115.00	Other(Misc)	Professional Engineer license renewal
Donnelly, Stephen	377961	15-Jun-17	105.00	Certification Renewal	SWRCB Water Distribution Operator Grade V
Drzymkowski, Michele	377652	1-Jun-17	172.00	Membership Renewal	California Water Environment Association Membership Renewal
Figueroa, Jorge	378143	22-Jun-17	146.20	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Figueroa, Jorge	378143	22-Jun-17	139.00	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Figueroa, Jorge	378143	22-Jun-17	135.00	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Figueroa, Jorge	378143	22-Jun-17	125.39	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Fites, Michael	377653	1-Jun-17	180.00	Other(Misc)	SWRCB Wastewater Treatment Operator Grade II Exam Fee
Fites, Michael	377653	1-Jun-17	230.00	Certification	SWRCB Wastewater Treatment Operator Grade II Certification
Gallegos, Richard	378144	22-Jun-17	172.00	Membership Renewal	California Water Environment Association Membership Reimbursement
Hoffman, Michael	378568	30-Jun-17	172.00	Membership Renewal	California Water Environment Association Membership Renewal
Kallo, John	378331	29-Jun-17	260.00	Certification	CWEA Electrical/Instrumentation Technician Grade II
LaMar, Steven E	377963	15-Jun-17	228.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 9, 2017
LaMar, Steven E	377963	15-Jun-17	228.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 10, 2017
LaMar, Steven E	377963	15-Jun-17	228.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 11, 2017
LaMar, Steven E	377963	15-Jun-17	171.64	Lodging	ACWA Board of Directors meeting, Sacramento, CA - June 2, 2017
Legault, Dan	378146	22-Jun-17	220.78	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Legault, Dan	378146	22-Jun-17	193.38	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Matheis, Mary Aileen	378332	29-Jun-17	182.54	Lodging	Water Education Foundation's 34th Annual Executive Briefing, Sacramento, CA - March 23, 2017
Matheis, Mary Aileen	378332	29-Jun-17	228.77	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 8, 2017
Matheis, Mary Aileen	378332	29-Jun-17	228.77	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 9, 2017
Matheis, Mary Aileen	378332	29-Jun-17	228.77	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 10, 2017
Matheis, Mary Aileen	378332	29-Jun-17	228.77	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 11, 2017
Nash, Joel	377657	1-Jun-17	116.00	Other(Misc)	Professional Engineer license renewal
Oldewage, Lars	378334	29-Jun-17	247.00	Membership Renewal	Water Education Foundation membership renewal
Olson, Richard	378335	29-Jun-17	225.00	Other(Misc)	Safety Eyeglasses
Pan, Jenny	378336	29-Jun-17	796.92	Other(Misc)	Meeting supplies
Perry, Rick	378147	22-Jun-17	110.49	Other(Misc)	FY 2016-17 Tool Reimbursement
Perry, Rick	378147	22-Jun-17	149.99	Other(Misc)	FY 2016-17 Tool Reimbursement
Perry, Rick	378147	22-Jun-17	109.99	Other(Misc)	FY 2016-17 Tool Reimbursement
Pfister, Ken	378338	29-Jun-17	107.74	Other(Misc)	Wireless Protective Case Reimbursement
Reinhart, Doug	377966	15-Jun-17	227.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 9, 2017
Reinhart, Doug	377966	15-Jun-17	227.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 10, 2017
Reinhart, Doug	377966	15-Jun-17	227.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 11, 2017
Saini, Mohit	377658	1-Jun-17	179.59	Other(Misc)	Meeting supplies
Sanchez, Hector	378150	22-Jun-17	206.82	Other(Misc)	FY 2016-17 Tool Reimbursement
Sanchez, Hector	378150	22-Jun-17	141.57	Other(Misc)	FY 2016-17 Tool Reimbursement
Seesangrit, Melody	378339	29-Jun-17	145.88	Lodging	CA Water Efficiency Partnership/Peer-to-Peer2017 Conference, San Diego, CA - May 31, 2017
Smyth, Jeff	377968	15-Jun-17	163.75	Other(Misc)	Safety Shoe Allowance
Swan, Peer	377659	1-Jun-17	178.90	Lodging	Urban Water Institute Spring Water Conference, Palm Springs, CA - February 9, 2017
Swan, Peer	377659	1-Jun-17	535.88	Airfare	WEF - Building Capacity for Regional Sustainability in Calif., Sacramento, CA - May 12, 2017
Swan, Peer	377969	15-Jun-17	393.23	Mileage	Roundtrip ACWA 2017 Spring Conference, Monterey, CA - May 9 - 12, 2017
Swan, Peer	377969	15-Jun-17	173.34	Mileage	Roundtrip to Water Banking Facilities, Kern County, CA - April 25, 2017
Wilson, Brett	377970	15-Jun-17	517.17	Auto Rental	2017 Vector Advanced Technician Training, Streater, IL - May 22 - 25, 2017
Wilson, Brett	378152	22-Jun-17	554.21	Other(Misc)	FY 2016-17 Annual Tool Reimbursement
Withers, John	377971	15-Jun-17	227.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 9, 2017
Withers, John	377971	15-Jun-17	227.41	Lodging	ACWA 2017 Spring Conference, Monterey, CA - May 10, 2017
Withers, John	377971	15-Jun-17	285.42	Auto Rental	ACWA 2017 Spring Conference, Monterey, CA - May 9 - 11, 2017
Total Amount:			\$14,694.17		

July 24, 2017

Prepared by: Tina Bertsch/Christopher Smithson

Submitted by: Cheryl Clary 

Approved by: Paul Cook 

CONSENT CALENDAR

IRVINE RANCH WATER DISTRICT STRATEGIC MEASURES

SUMMARY:

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

BACKGROUND:

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

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

RECOMMENDATION:

THAT THE BOARD RECEIVE AND FILE THE REPORT.

LIST OF EXHIBITS:

Exhibit "A" – June 2017 Strategic Measures

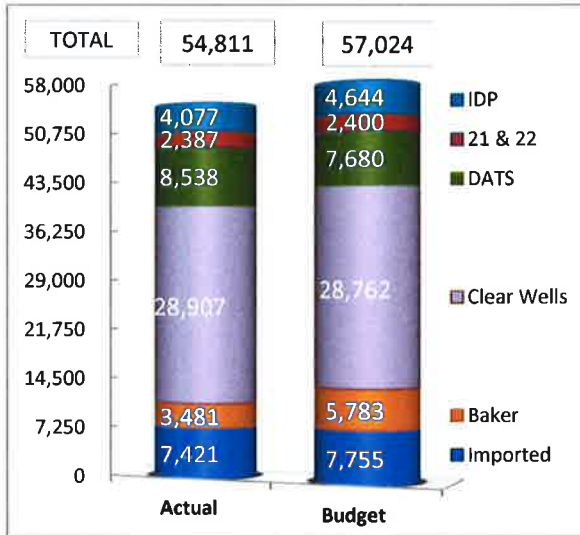
IRVINE RANCH WATER DISTRICT

Exhibit "A"

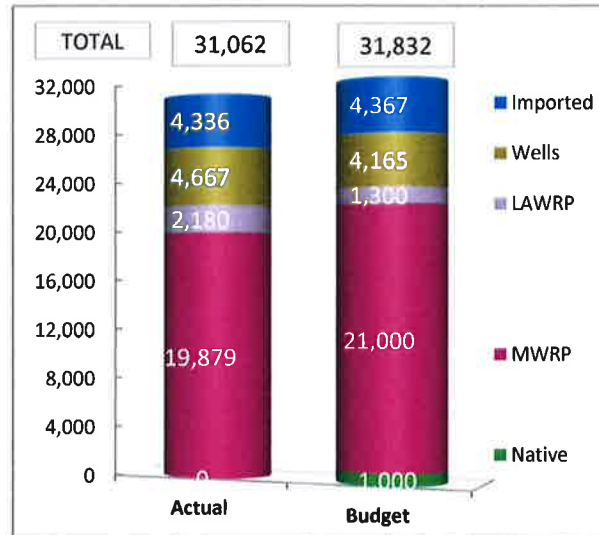
Operational Performance Measures

Data as of June 30, 2017

Potable Water Production FYTD (AF)



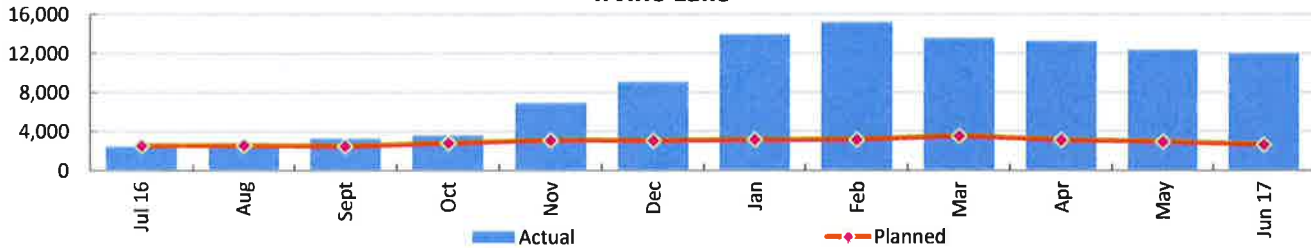
Non-Potable Water Production FYTD (AF)



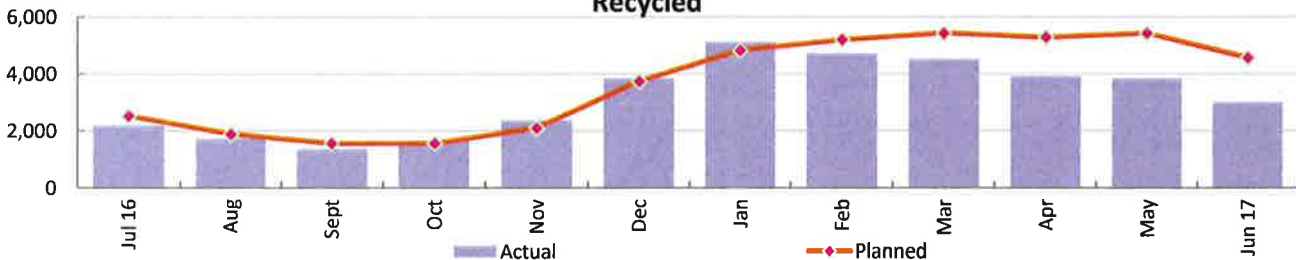
* Excess production moved to recycled reservoirs.

Non-Potable Reservoir Storage (AF)

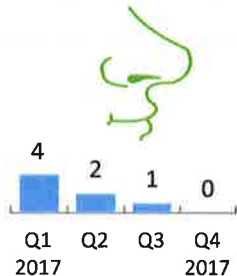
Irvine Lake



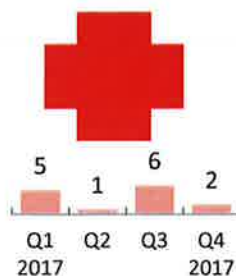
Recycled



Odor Complaints (FY by quarter)



OSHA Recordables Incidents



Regulatory Compliance Incidents

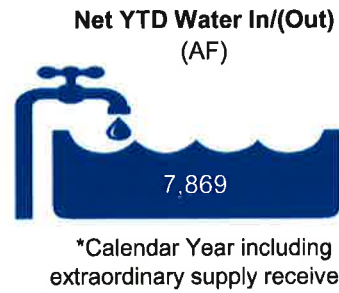
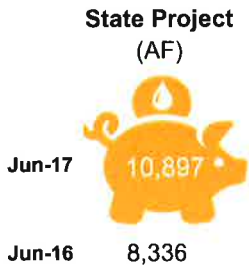
Category	Q1 2017	Q2 2017	Q3 2017	Q4 2017
AQMD	0	0	0	0
Plants	1	0	1	0
Sewer Spills	0	0	3	0

IRVINE RANCH WATER DISTRICT

Other Statistical Information

Data as of June 30, 2017

Banked Water



Certificates of Occupancies FYTD



	Apartment Condominium	Single Family
FY 16-17	1567	1414
FY 15-16	1162	1349

Total Potable Water



	AF	GPCD
FY 16-17	15,114	71
FY 13-14	17,038	82
Reduction	11.3%	14%

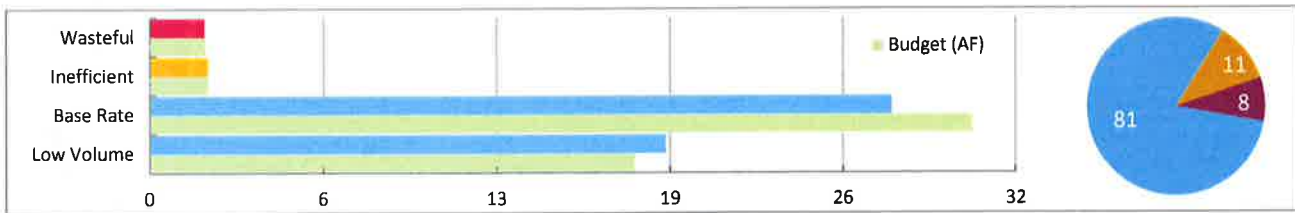
Acre-Foot Per Acre Irrigation



	AF	ET Based Allocation
FY16-17 Q4	0.23	0.36
FY13-14 Q4	0.24	0.42

Potable Sales by Tier FYTD

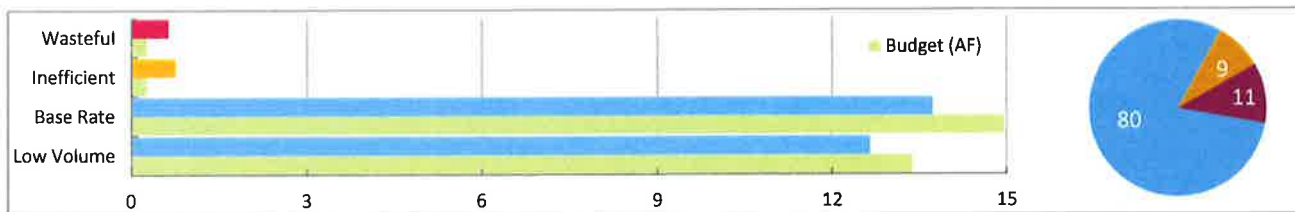
(in thousands)



% of Customers by Tier

Non-Potable Sales by Tier FYTD

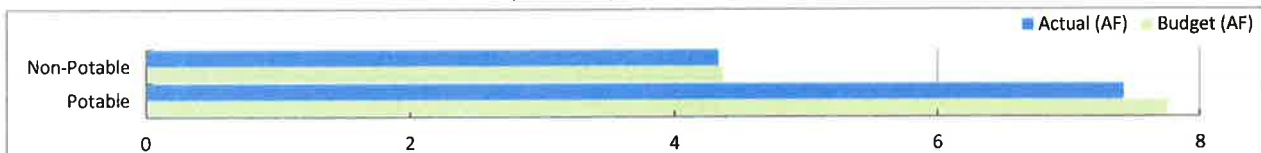
(in thousands)



% of Customers by Tier

Imported Water Purchases FYTD

(in thousands)



Customer Satisfaction Index**



** 12 month rolling average

July 24, 2017

Prepared by: C. Kessler/K. Lew

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

Approved by: Paul Cook *P. Cook*

CONSENT CALENDAR

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

SUMMARY:

The City of Irvine (City) is proceeding with its annual slurry seal and pavement rehabilitation project for miscellaneous areas throughout the City. This project requires a Reimbursement Agreement (RA) since the estimated construction cost is over \$100,000. Staff recommends that the Board authorize the General Manager to execute an RA with the City for its Annual Slurry Seal and Pavement Rehabilitation project.

BACKGROUND:

IRWD has had an RA in place with the City since 1995 for managing various street rehabilitation projects. Typically included in the City’s Capital Improvement Projects are alternate bid items for raising existing IRWD sewer manhole covers, sewer cleanouts, and water valve frames and lids to the new pavement grade. Any project up to \$100,000 in reimbursable costs can be authorized by the General Manager as an addendum to this “umbrella” RA.

IRWD and the City have also agreed that any City street improvement project which involves the construction, modification or relocation of IRWD facilities with an estimated construction cost over \$100,000 will be administered through a separate RA. The City’s Annual Slurry Seal and Street Rehabilitation Project, Bid No. 18-1292, has an estimated construction cost of \$572,520 and, therefore, requires a project-specific RA.

The project focuses on the Irvine villages of Woodbridge, University Park, Westpark and Northwood. Approximately 464 domestic and 71 recycled water valve frames and lids, 13 sewer cleanouts, and 186 sewer manholes will be installed or adjusted to new pavement grade. A Vicinity Map is attached as Exhibit “A”, the engineer’s estimate as Exhibit “B”, and the RA as Exhibit “C”. The RA has been reviewed by IRWD’s legal counsel.

FISCAL IMPACTS:

Staff anticipates receiving invoices from the City in January 2018. Projects 07127, 07129, and 07131 are included in the FY 2017-18 Capital Budget and have adequate budgets as shown in the following table.

Project No.	Current Budget	Addition <Reduction>	Total Budget
07127	\$577,500	\$-0-	\$577,500
07129	\$346,500	\$-0-	\$346,500
07131	\$138,600	\$-0-	\$138,600
Total	\$1,062,600	\$-0-	\$1,062,600

Consent Calendar: Reimbursement Agreement Between IRWD and the City of Irvine for Installation and Adjustment of IRWD Facilities to Grade

July 24, 2017

Page 2

ENVIRONMENTAL COMPLIANCE:

These projects are exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15061 (b) (3). The activity is covered by the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on July 18, 2017

RECOMMENDATION:

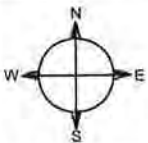
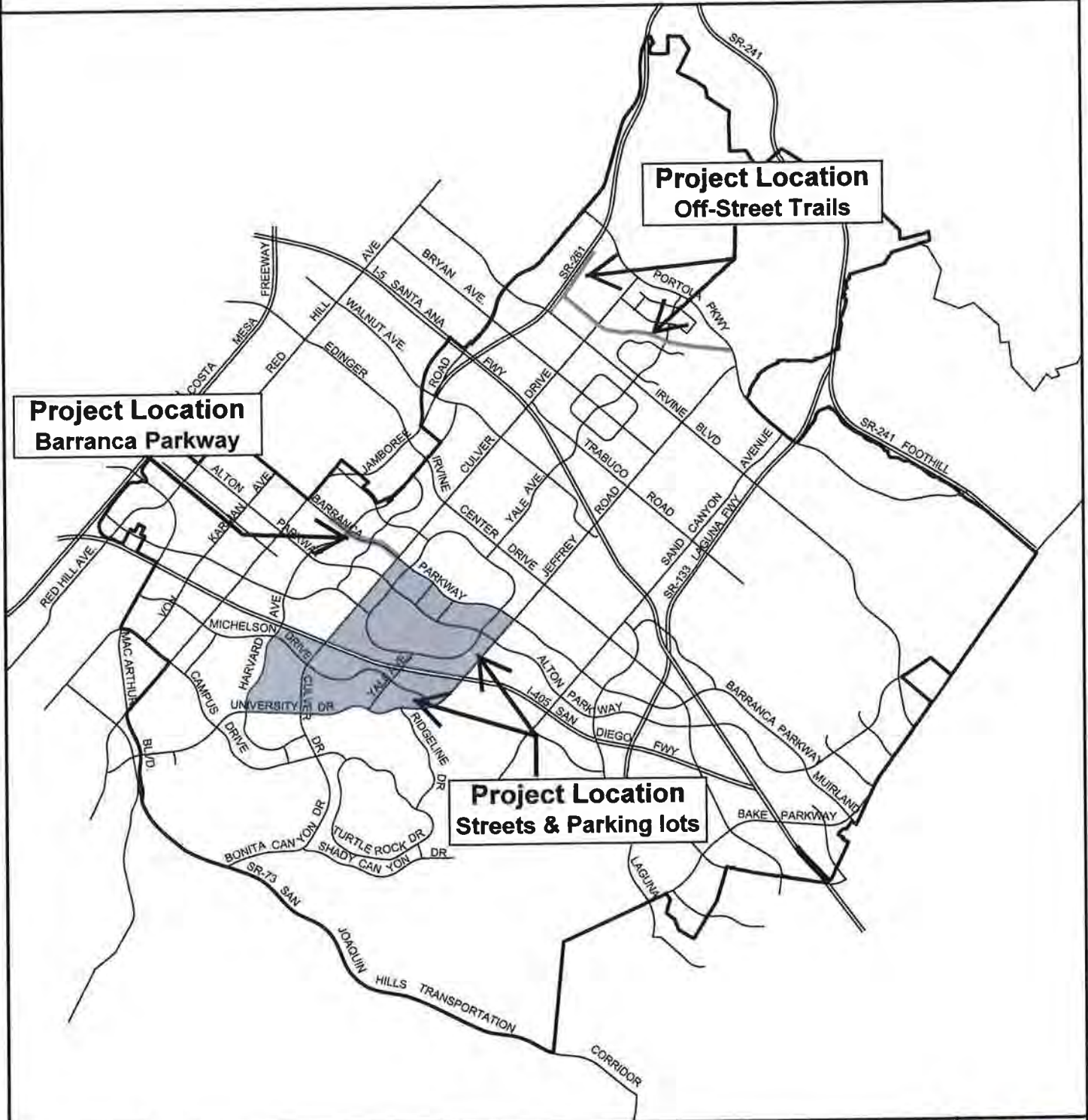
THAT THE BOARD AUTHORIZE THE GENERAL MANAGER TO EXECUTE A REIMBURSEMENT AGREEMENT WITH THE CITY OF IRVINE FOR ITS ANNUAL SLURRY SEAL AND PAVEMENT REHABILITATION PROJECT, BID NO. 18-1292.

LIST OF EXHIBITS:

- Exhibit "A" – Vicinity Map
- Exhibit "B" – Engineer's Estimate
- Exhibit "C" – Reimbursement Agreement

EXHIBIT "A"

ANNUAL STREET REHABILITATION AND SLURRY SEAL PROJECT (FY 2017-18)



VICINITY MAP



EXHIBIT "B"

REIMBURSEMENT AGREEMENT BETWEEN IRVINE RANCH WATER DISTRICT (IRWD)
AND THE CITY OF IRVINE
FOR
ANNUAL STREET REHABILITATION AND SLURRY SEAL PROJECT, BID NO. 18-1292

ENGINEER'S ESTIMATE

ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT COST	EXTENDED AMOUNT
A-1	INSTALL NEW IRWD WATER VALVE FRAME AND COVER TO GRADE	464	EA	\$ 750.00	\$ 348,000.00
A-2	INSTALL NEW IRWD RECLAIM WATER VALVE FRAME AND COVER TO GRADE	71	EA	\$ 750.00	\$ 53,250.00
A-3	INSTALL NEW IRWD SEWER CLEANOUT FRAME AND COVER TO GRADE	13	EA	\$ 750.00	\$ 9,750.00
A-4	ADJUST EXISTING IRWD SEWER MANHOLE FRAME AND COVER TO GRADE	186	EA	\$ 750.00	\$ 139,500.00
TOTAL CONSTRUCTION ESTIMATE					\$ 550,500.00
4% ADMINISTRATION FEE PER SECTION 5 OF AGREEMENT					\$ 22,020.00
TOTAL COSTS					\$ 572,520.00

EXHIBIT "C"

File No.

REIMBURSEMENT AGREEMENT BETWEEN
IRVINE RANCH WATER DISTRICT
AND THE CITY OF IRVINE
FOR
INSTALLATION AND ADJUSTMENT OF STREET UTILITIES TO GRADE FOR
ANNUAL STREET REHABILITATION AND SLURRY SEAL
BID NO. 18-1292

This Agreement is made and entered into as of this ____ day of _____, 2017, by and between IRVINE RANCH WATER DISTRICT, a California water district formed and existing pursuant to the California Water District Law, hereinafter referred to as "DISTRICT," and the CITY OF IRVINE, a municipal corporation, hereinafter referred to as "CITY."

W I T N E S S E T H:

WHEREAS, CITY proposes to construct street and utility improvements on Barranca Parkway from Culver Drive to San Diego Creek Channel and within the Woodbridge South, University Park, and San Joaquin communities for the ANNUAL STREET REHABILITATION AND SLURRY SEAL, Bid No. 18-1292 (the "Project"), within the jurisdictional boundaries of DISTRICT and the City of Irvine; and

WHEREAS, such construction will necessitate the installation or adjustment to grade of approximately 464 Water Valves, approximately 71 Recycled Water Valves, approximately 13 Sewer Cleanouts and approximately 186 Sewer Manholes, as depicted on Exhibit "A" attached hereto incorporated by reference herein (hereinafter referred to as the "IRWD FACILITIES"); and

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

WHEREAS, DISTRICT is amenable to the CITY constructing the IRWD FACILITIES with the CITY agreeing to advance the costs; and

WHEREAS, DISTRICT agrees to fully reimburse the CITY through payments billed by the CITY and approved by DISTRICT for the entire cost of the IRWD FACILITIES; and

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

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

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

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

SECTION 3. BIDDING AND AWARD. The parties agree that the construction of the IRWD FACILITIES shall be included in CITY's contract(s) awarded for the Project and that the IRWD FACILITIES shall be bid as a separate item or items that can be deleted. During the bidding process, CITY shall deliver to IRWD one (1) complete set of the bid documents that include the IRWD FACILITIES, including all related addenda concurrently with the distribution thereof to prospective bidders. Upon opening of bids by CITY, CITY will submit the bids or a spread sheet summary of the bids to DISTRICT. DISTRICT will have a period of ten (10) calendar days from its receipt of the bid results for review and approval of the IRWD FACILITIES bid item(s) submitted by the bidder identified to DISTRICT by CITY as CITY's proposed successful bidder. CITY agrees that bids received for the construction of the IRWD

FACILITIES bid item(s) shall be subject to the approval of DISTRICT prior to award of the Project construction contract(s) that include the IRWD FACILITIES; and further agrees that in the event DISTRICT does not approve such bids, either party may terminate this Agreement upon twenty-four (24) hours' prior written notice, in which event CITY shall have no further obligation to construct the IRWD FACILITIES, and DISTRICT may elect to install the IRWD FACILITIES with its own contractor. If DISTRICT approves of the IRWD FACILITIES bid item(s) of CITY's successful bidder, CITY agrees to cause the IRWD FACILITIES to be constructed as part of the contract awarded to such bidder. The total estimated construction cost for the IRWD FACILITIES is \$572,520, provided, however, the amount to be reimbursed by DISTRICT shall be based on the actual costs of construction. Upon award of the construction contract, CITY shall provide DISTRICT with one (1) original copy of the fully executed contract documents and one (1) copy of the bid package relating to the IRWD FACILITIES received from the successful bidder.

SECTION 4. DESIGN REVISIONS AND CHANGE ORDERS. DISTRICT agrees to reimburse CITY for any change order(s) for revision(s) requested by DISTRICT or otherwise required to construct the IRWD FACILITIES. CITY shall promptly furnish DISTRICT with copies of any proposed change order(s) to such contract within five (5) working days of the initiation of the changed conditions to such contract, which shall be subject to DISTRICT approval if and to the extent the IRWD FACILITIES are affected therefrom.

DISTRICT shall promptly review proposed change order(s) and provide CITY with a response within five (5) working days or sooner of receiving proposed change order(s) information from CITY. DISTRICT agrees not to unreasonably cause delay(s) to the construction schedule of the Project in reviewing proposed change order(s) for the IRWD FACILITIES. Notwithstanding any other provision herein, any approval required to be given by the DISTRICT under this Section shall be deemed given if no response to the CITY's request for such approval is received by the CITY within eight (8) working days following the written request for such approval unless the parties agree otherwise in a writing executed by both parties.

SECTION 5. REIMBURSEMENT. DISTRICT agrees to reimburse CITY for the following costs (collectively, the "Costs"): (1) the actual costs of design, construction, permits, bonds, and legal fees (excluding the costs of preparation of this Agreement) incurred by CITY in connection with the design and construction of the IRWD FACILITIES, plus (2) an administration fee which shall be equal to four percent (4%) of the actual cost of construction (costs paid directly to CITY's contractor for construction, only, excluding any cost for design,

surveying, geotechnical or other work) of the IRWD FACILITIES and which shall be deemed to cover all costs of project administration, including, but not limited to, accounting, inspection, surveying, compaction testing, geotechnical services and engineering. CITY shall keep a separate accounting of all Costs incurred by CITY in relation to the IRWD FACILITIES.

Within sixty (60) days of DISTRICT's acceptance of the IRWD FACILITIES as provided in Section 8, a final accounting of the Costs shall be made by CITY and submitted to DISTRICT along with an invoice for the Costs and any supporting documentation necessary to show the amounts which represent Costs of IRWD FACILITIES. Amounts paid pursuant to progress payment invoices shall be subject to adjustment in the final accounting. Within thirty (30) days of said final accounting, DISTRICT agrees to pay to CITY the total amount of the Costs.

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

SECTION 7. INSPECTION. DISTRICT shall have sole and absolute discretion as to all aspects of design and construction of the IRWD FACILITIES, and DISTRICT shall be entitled to inspect the construction of IRWD FACILITIES as it deems necessary to assure compliance with the Plans and Specifications, including shop drawing review and material inspection thereof. DISTRICT shall have access to all phases of the Project work to be performed by CITY for the purpose of such inspection; provided, however, all questions regarding the work being performed will be directed to CITY's resident engineer. DISTRICT will promptly notify CITY of any portion of the work on the IRWD FACILITIES which appears not to conform to the Plans and Specifications. The determination of DISTRICT as to conformity of the IRWD FACILITIES with the Plans and Specifications shall be made in DISTRICT's sole and absolute discretion. DISTRICT agrees not to unreasonably withhold its approval as to such conformity of the IRWD FACILITIES with the Plans and Specifications. CITY shall require its contractor to construct the IRWD FACILITIES so that the IRWD FACILITIES conform to the Plans and Specifications. CITY agrees to assume full responsibility for certifying or obtaining certification of the compaction of backfill material over the IRWD FACILITIES.

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

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

SECTION 10. GUARANTEES. CITY will, pursuant to the requirement(s) of the Plans and Specifications, cause its contractor(s) for the IRWD FACILITIES to guarantee the IRWD FACILITIES against defects in workmanship and materials for a period of one (1) year from the date of acceptance by CITY, which acceptance shall be given only after acceptance by DISTRICT as provided in Section 8. It is further agreed that CITY shall cause the IRWD FACILITIES to be brought or restored to full compliance with the requirements of the Plans and Specifications, including any test requirements, for any portions of the IRWD FACILITIES which during said one (1) year period are found not to be in conformance with the provisions of the Plans and Specifications. This guarantee is in addition to any and all other warranties, express or implied, from CITY's contractors or material manufacturers, with respect to the IRWD FACILITIES. The guarantee and obligations under this section shall in no way be relieved by DISTRICT's inspection and/or acceptance of the IRWD FACILITIES. This section sets forth the entire guarantee and warranty of CITY with respect to the IRWD FACILITIES. The express or implied warranties of other persons with respect to IRWD FACILITIES shall in no way be limited by the guarantee and warranty of CITY contained in this section. If requested by DISTRICT, CITY agrees to assign to DISTRICT the contractor's guarantee and/or any other guarantees or warranties relating to the IRWD FACILITIES.

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

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

SECTION 12. INSURANCE AND BONDING. CITY shall cause its contractor(s) to provide performance and payment bonds for the construction of the Project including the IRWD FACILITIES and to obtain insurance coverage sufficiently broad to insure the matters set forth in this Agreement and to include DISTRICT, its officers, agents, employees and engineers, as additional insureds on all insurance policies that CITY requires its contractor(s) to provide. As evidence of such insurance coverage, CITY shall, prior to commencement of construction of the IRWD FACILITIES, provide DISTRICT with certificates of insurance and insurance endorsements from CITY's contractor(s) in a form acceptable to DISTRICT.

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

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

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

DISTRICT:	Irvine Ranch Water District 15600 Sand Canyon Avenue P.O. Box 57000 Irvine, CA 92619-7000 Attn: General Manager
CITY:	City of Irvine 6427 Oak Canyon, Bldg. 1 Irvine, CA 92618 Attn: Allison Tran, Associate Engineer

SECTION 15. SUCCESSORS AND ASSIGNS; INTEGRATION; AMENDMENT. This Agreement shall be binding upon and inure to the benefit of the successor and assigns of CITY and DISTRICT. This Agreement constitutes the entire Agreement between CITY and DISTRICT and supersedes all prior understandings and agreements between the parties with respect to the subjects hereof. This Agreement may be modified only in writing signed by both parties hereto.

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

SECTION 17. DEEMED APPROVAL. Any approval required to be given by either party pursuant to this Agreement shall be deemed given if no response to the party's request for

such approval is received by the requesting party within fifteen (15) days following the written request for such approval.

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

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

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

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

IRVINE RANCH WATER DISTRICT

By _____
Paul Cook, General Manager

Dated _____

ATTEST:

By _____
Secretary/Assistant Secretary

Dated _____

APPROVED AS TO FORM:

By _____
Legal Counsel, IRWD

Dated _____

CITY OF IRVINE
A Municipal Corporation

By _____
Sean Joyce
City Manager of the City of Irvine

Dated _____

By _____
Manuel Gomez
Director of Public Works

Dated _____

ATTEST:

By _____
Molly McLaughlin
City Clerk of the City of Irvine

Dated _____


APPROVED AS TO FORM:


By _____
Jeffrey Melching, RUTAN & TUCKER, LLP
City Attorney of the City of Irvine

Dated _____

July 24, 2017

Prepared by: H. Cho/M. Cortez

Submitted by: K. Burton 

Approved by: Paul Cook 

CONSENT CALENDAR

DYER ROAD WELLFIELD WELL 3 REHABILITATION FINAL ACCEPTANCE

SUMMARY:

The Dyer Road Wellfield (DRWF) Well 3 Rehabilitation project is complete. The contractor, General Pump Company, completed the required work and all punch list items. The project has received final inspection and acceptance of construction is recommended.

BACKGROUND:

The DRWF Well 3 Rehabilitation project removed chemical and biological material from the well casing's louvers and restored well production capacity. General Pump Company was awarded the construction contract on November 23, 2015 and completed construction on June 30, 2017. The long construction phase was primarily due to two items of additional work that are described below.

The first change in the scope of work occurred during chemical rehabilitation of the well. The chemical injection swab became stuck near the bottom of the well due to sediment entering the well. After several failed attempts to dislodge and remove the swab and pipe assembly from the well, it was concluded that the swab could not be retrieved. General Pump Company subsequently retained an oil well drilling contractor, Norman Wireline Services, to use an explosive charge to separate the pipe assembly at a coupling 20 feet above the swab. After separation, the upper pipe sections were pulled from the well while the immovable swab and a short section of pipe remained at the bottom. The operation was successful. IRWD negotiated the cost for the additional work with General Pump Company based on cost sharing, and added 105 days to the contract time.

The second item of additional work was the installation of a new well liner. Video inspection of the well revealed at least seven holes in the well louvers and cracks developing in other louvers of the well casing. The District's consultant, Richard Slade & Associates, and General Pump Company recommended the installation of a well liner to prevent additional damage to the original well casing or perhaps losing the well entirely during the remainder of the well rehabilitation process. Procuring and installing the liner required an additional 144 contract days.

The remaining additional 124 contract days were the result of rain delays due to the wet winter and smaller change order items including slight modifications to the chemical rehabilitation mix based on the condition of the well, and installation of a well casing patch in the blank casing section close to the ground surface where the well liner was not installed.

Project Title:	DRWF Well 3 Rehabilitation
Project No.:	04327
Design Engineer:	Richard Slade & Associates
Construction Management by:	IRWD Staff
Contractor:	General Pump Company
Original Contract Cost:	\$477,657.00
Final Contract Cost:	\$763,970.90
Original Contract Days:	150
Final Contract Days:	523
Final Change Order Approved On:	April 18, 2017

FISCAL IMPACTS:

Project 04327 was included in the FY 2016-17 Capital Budget. The existing budget and Expenditure Authorization was sufficient to fund the final payment for the project. The construction change order summary is attached as Exhibit "A".

ENVIRONMENTAL COMPLIANCE:

This project is exempt from the California Environmental Quality Act (CEQA) as authorized under the California Code of Regulations, Title 14, Chapter 3, Section 15301 which provides exemption for minor alterations of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. A Notice of Exemption for the project was filed with the Orange County Clerk/Recorder on May 29, 2015.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDATION:

THAT THE BOARD ACCEPT CONSTRUCTION OF THE DYER ROAD WELLFIELD WELL 3 REHABILITATION, PROJECT 04327; AUTHORIZE THE GENERAL MANAGER TO FILE A NOTICE OF COMPLETION; AND AUTHORIZE THE PAYMENT OF THE RETENTION 35 DAYS AFTER THE DATE OF RECORDING THE NOTICE OF COMPLETION.

LIST OF EXHIBITS:

Exhibit "A" – Construction Change Order Summary

EXHIBIT "A"

DWRF Well 3 Rehabilitation PR 11672 (4327) Construction Change Order Summary

Contractor: General Pump Company
Design Engineer: Richard Slade & Associates

							Contract Days				Original Completion Date:
Original Contract Amount: \$477,657.00							Original Days: 150				4/23/2016
Change Order	Description	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C.O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe. Director of Engineering and Water Quality Approved on January 27, 2016 Removal of the well jetting work, CCTV and other survey work and testing from contractor's scope of work	-\$45,107.00	\$0.00	-\$45,107.00	-9.44%	\$432,550.00	0	0	0	150	4/23/2016
2	Approved by Exe. Director of Engineering and Water Quality Approved on February 17, 2016 Additional two days labor for chemical treatment due to change in chemical treatment procedure requiring two applications of the chemical instead of one	\$9,900.00	-\$45,107.00	-\$35,207.00	-7.37%	\$442,450.00	2	0	2	152	4/25/2016
3	Approved by Exe. Director of Engineering and Water Quality Approved on March 16, 2016 Install a 4 foot long patch over small split in blank casing 382 feet below ground surface	\$9,480.00	-\$35,207.00	-\$25,727.00	-5.39%	\$451,930.00	3	2	5	155	4/28/2016
4	Approved by Exe Dir of Eng & Water Quality Approved on August 16, 2016 Additional work to remove the stuck pipe at the bottom of the well	\$74,477.00	-\$25,727.00	\$48,750.00	10.21%	\$526,407.00	105	5	110	260	8/11/2016
5	Approved by the Board of Directors Approved on September 29, 2016 Additional work to install a well liner from the top of the shallowest perforated casing to the bottom of the well	\$236,006.00	\$48,750.00	\$284,756.00	59.62%	\$762,413.00	144	110	254	404	1/2/2017
6	Approved by Executive Director of Engineering and Water Quality Approved on April 24, 2017 Additional Costs to install a new 14-inch cone strainer on pump bowl suction case and non-compensatory time extension for rain and other delays	\$1,557.90	\$284,756.00	\$286,313.90	59.94%	\$763,970.90	119	254	373	523	5/1/2017

July 24, 2017

Prepared by: T. Lynch/J. Moeder/R. Mori

Submitted by: K. Burton *KLB*

Approved by: Paul Cook *P. Cook*

ACTION CALENDAR

IRVINE LAKE PIPELINE NORTH CONVERSION RESERVOIR CONTRACT CHANGE ORDER

SUMMARY:

Pascal & Ludwig Constructors (P&L) is constructing the Irvine Lake Pipeline (ILP) North Conversion Reservoir, which is about 30% complete. Staff recommends that the Board approve Contract Change Order No. 8 in the amount of \$314,692 for import and placement of additional structural backfill beneath the reservoir.

BACKGROUND:

As part of IRWD's strategic plan to increase recycled water usage and reduce reliance on imported water supplies, IRWD is converting a significant portion of the ILP from untreated water to recycled water. The ILP North Conversion Reservoir project includes construction of a 2.4 million gallon buried concrete reservoir, modifications at the Rattlesnake complex, and modifications at the Orchard Hills Strainer Facility. Construction of the ILP North Conversion Reservoir project began in October 2016.

Contract Change Order No. 8:

The Contract Documents require the contractor to over-excavate four feet of soil below the reservoir slab and to reuse the over-excavated soil as compacted structural backfill for the reservoir foundation. The original over-excavation depth was based on borings obtained under the reservoir as part of the geotechnical investigation report, which suggested the potential for suitable soil conditions. The report further explained that the site is geologically unique and contains several in-active faults, which creates inconsistent soil conditions and the potential for modifications to the recommendations as the subgrade is exposed. When the contractor reached the reservoir subgrade elevation, the geotechnical engineer determined from visual inspection, soils analysis, and laboratory testing that the soil beneath the reservoir contained significant portions of expansive clay. Expansive clays are unsuitable soils for the reservoir foundation, so the geotechnical engineer recommended that the expansive clays be removed. Based on the results of the laboratory testing, the geotechnical engineer recommended that the over-excavation be continued to a depth of 10 feet below the foundation of the reservoir and that the excavated soils be removed from site. Further, the geotechnical engineer recommended that structural backfill be imported to the site and used as compacted backfill for the entire excavation beneath the reservoir.

The additional over-excavation required for the reservoir foundation resulted in the need for additional disposal of unsuitable onsite soils, specialized excavation techniques adjacent to the contractor's temporary shoring system, and import and placement of an additional 6,500 cubic yards of structural backfill. The additional costs associated with the first two items were

accounted for in previously executed change orders. The cost associated with the import and placement of additional structural backfill is the subject of Contract Change Order No. 8.

P&L initially submitted a lump sum cost of \$365,699 for the work, but due to the uncertainty of the actual production levels that could be achieved, staff directed P&L to proceed with the work on a time and materials basis. The work is now complete, and P&L submitted a change request in the amount of \$314,692 and a request for a Contract Time extension of 52 calendar days. Staff reviewed the change order in detail and confirmed that both the cost and the time extension request are acceptable. Staff recommends approval of Contract Change Order No. 8, which is presented as Exhibit "A". A summary of change orders to date is provided as Exhibit "B".

FISCAL IMPACTS:

Project 05407 is included in the FY 2017-18 Capital Budget. The existing budget is sufficient to fund the contract change order.

The ILP North Conversion Project, which includes the reservoir and associated off-site pipelines, is receiving grant funding from the United States Department of Bureau of Reclamation (USBR) and the State Water Resources Control Board (State Board). The USBR funding, in the amount of \$300,000, is being provided through the Drought Resiliency Grant program with 75 percent IRWD matching requirements. The State Board is providing Proposition 1 Recycled Water Program grant funds, which will contribute up to a 35 percent match on eligible construction costs up to a maximum of \$29,510,300 in project costs.

ENVIRONMENTAL COMPLIANCE:

This project is subject to the California Environmental Quality Act (CEQA) and in conformance with California Code of Regulations Title 14, Chapter 3, Article 6, a Notice of Intent to adopt a Mitigated Negative Declaration was filed with the County of Orange on November 3, 2015. Pursuant to State Guideline § 15073, the Initial Study/Mitigated Negative Declaration (IS/MND) was made available for public review for a period of 30 days from November 4, 2015 through December 3, 2015. The IS/MND was adopted by IRWD Board of Directors at its January 11, 2016 meeting. A Notice of Determination was filed with the Orange County Clerk/Recorder and the CA State Clearinghouse on January 12, 2016.

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on July 18, 2017.

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 8 WITH PASCAL & LUDWIG CONSTRUCTORS IN THE AMOUNT OF \$314,692 FOR IMPORT AND PLACEMENT OF ADDITIONAL STRUCTURAL BACKFILL BENEATH THE RESERVOIR FOR THE IRVINE LAKE PIPELINE NORTH CONVERSION RESERVOIR, PROJECT 05407.

Action Calendar: Irvine Lake Pipeline North Conversion Reservoir Contract Change Order
July 24, 2017
Page 3

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 8

Exhibit "B" – Contract Change Order Summary Log

EXHIBIT "A"

CONTRACT CHANGE ORDER



Irvine Ranch Water District

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

C.O. No. 08
 Final
 Project No. 05407

ILP N. Conversion Santiago Hills Zone C+ Reservoir

Project Title

Date: 7/11/2017

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Change Request 22 - Import and placement of structural backfill	\$ 334,185.00	\$ 19,493.00	52
Note: With the execution of this contract change order, the revised contract completion date is 12/15/2018.			
TOTAL	\$ 334,185.00	\$ 19,493.00	52

	= \$	DAYS ±
1. NET AMOUNT THIS CHANGE ORDER	314,692.00	52
2. ORIGINAL CONTRACT AMOUNT	9,038,010.00	690
3. TOTAL PREVIOUS CHANGE ORDER(S)	652,906.00	115
4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3)	9,690,916.00	805
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	10,005,608.00	857

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

Three Hundred Fourteen Thousand Six Hundred Ninety Two and 0/100

Dollars

7/11/17 Date Pascal & Ludwig Constructors Contractor By: Scott Flynn

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
<u>[Signature]</u> IRWD Engineer or Consulting Engineer	<u>7/11/17</u> Date	Department Director Approval Required <input type="checkbox"/>
<u>[Signature]</u> Principal Engineer	<u>07/10/17</u> Date	Executive Director Approval Required <input type="checkbox"/>
<u>[Signature]</u> Executive Director of Engineering & Water Quality	<u>7/11/17</u> Date	General Manager Approval Required <input type="checkbox"/>
<u>[Signature]</u> General Manager	<u>7/11/17</u> Date	Board Approval Required <input checked="" type="checkbox"/>
		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 Change 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 Change Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

EXHIBIT "B"

ILP N. Conversion Santiago Hills Zone C+ Reservoir Project PR 05407 Construction Change Order Summary

Date: July 11, 2017
 Contractor: Pascal & Ludwig
 Design Engineer: Kleinfelder

			Contract Amount						Contract Days				Original Completion Date:
			Original Contract Amount: \$9,038,010.00						Original Days: 690				7/1/2018
Change Order No	Description	Category	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Order Days	Cum Change Order Days	Revised Total Contract Days	Revised Completion Date
1	Approved by Executive Director of Eng and WQ Approved on November 22, 2016 CR-1: Addition of 4-inch water line at Santiago Canyon Reservoir Site CR-2: Removal of fencing along Santiago Canyon Road CR-3: Modifications to the strainer backwash pumps CR-4: Modifications to the fencing plan at the Santiago Canyon Hills Reservoir Site CR-5: Addition of a project sign at the Irvine Company disposal site	B D D C C	\$10,628.00 \$818.00 \$1,491.00 \$7,159.00 \$750.00	\$ 20,846.00	\$ -	\$ 20,846.00	0.23%	\$9,058,856.00	0	0	0	690	7/1/2018
2	Approved by Executive Director of Eng and WQ Approved on March 28, 2017 CR-6: Additional potholing at Rattlesnake Complex CR-7: Addition of mulch at Rattlesnake Complex CR-8: Modification to the stainless steel tapping sleeve CR-10: Addition of Proposition 1 Funding Agreement requirements CR-11: Addition of remote control station on 30-inch ball valve CR-12: Time extension request for weather delays	B C A C D B	\$3,283.00 \$2,065.00 \$12,605.00 \$0.00 \$3,728.00 \$0.00	\$21,681.00	\$ 20,846.00	\$ 42,527.00	0.47%	\$9,080,537.00	48	0	48	738	8/18/2018
3	Approved by Executive Director of Eng and WQ Approved on March 31, 2017 CR-15: Additional time for delay in disposal site availability	B	\$0.00	\$0.00	\$ 42,527.00	\$ 42,527.00	0.47%	\$9,080,537.00	25	48	73	763	9/12/2018
4	Approved by Board Approved on April 24, 2017 CR-9: City of Orange modified work hours CR-13: Additional handling and disposal	C B	\$83,970.00 \$267,044.00	\$351,014.00	\$ 42,527.00	\$ 393,541.00	4.35%	\$9,431,551.00	23	73	93	783	10/2/2018
5	Approved by Executive Director of Eng and WQ Approved on April 19, 2017 CR-15: Modified Shoring for Additional Over Excavation	B	\$65,459.00	\$65,459.00	\$ 393,541.00	\$ 459,000.00	5.08%	\$9,497,010.00	22	93	115	805	10/24/2018
6	Approved by General Manager Approved on May 24, 2017 CR-19: Additional Over-Excavation	B	\$95,380.00	\$95,380.00	\$ 459,000.00	\$ 554,380.00	6.13%	\$9,592,390.00	0	115	115	805	10/24/2018
7	Approved by General Manager Approved on CR-20: Slot cutting in front of shoring	B	\$98,526.00	\$98,526.00	\$ 554,380.00	\$652,906.00	7.22%	\$9,690,916.00	0	115	115	805	10/24/2018
8	Approved by Board Approved on CR-22: Import and Placement of Structural Backfill	B	\$314,692.00	\$314,692.00	\$652,906.00	\$ 967,598.00	10.71%	\$10,005,608.00	52	115	167	857	12/15/2018

Category	Total Amount	Contract
A - Owner Directed Change	\$12,605.00	0.14%
B - Differing/Unknown Condition	\$855,012.00	9.46%
C - External Agency, Regulatory, and/or Permit Required Change	\$93,944.00	1.04%
D - Design Oversight	\$6,037.00	0.07%
E - Design Error	\$0.00	0.00%
Total Change Order Amount (A + B + C + D + E)	\$967,598.00	10.71%

July 24, 2017

Prepared by: S. Malloy

Submitted by: K. Burton *KLB*

Approved by: Paul Cook *P. Cook*

ACTION CALENDAR

MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY FACILITIES CONTRACT CHANGE ORDER NO. 56

SUMMARY:

Filanc/Balfour-Beatty (FBB) is constructing the Michelson Water Recycling Plant (MWRP) Biosolids and Energy Recovery Facilities (Biosolids Project). Contract Change Order (CCO) No. 56 includes the addition of stairs and a platform for the Regenerative Thermal Oxidizer and programming modifications for the microturbine's Capstone Logic Controller. Staff recommends that the Board approve CCO No. 56 in the amount of \$201,744.33 with FBB for the Biosolids Project.

BACKGROUND:

Construction of the Biosolids Project was awarded to FBB in March 2013 in the amount of \$163,465,940. The Biosolids Project will provide biosolids digestion, dewatering, energy production, and on-site sludge drying. The project includes excavation for subsurface structures; installation of foundation piles; three egg-shaped digesters; a state-of-the-art odor control system; a biogas conditioning system and power generation using microturbines; a fats, oil and grease receiving station; and new utility services. These facilities are being constructed on the land north of IRWD's Operations Center, maintenance shops, water quality laboratory, and warehouse.

CCO No. 56:

Staff negotiated with FBB and agrees to the labor and material costs contained in CCO No. 56, which contains the following items:

- *Stairs and platform for the sludge dryer's Regenerative Thermal Oxidizer (RTO) in the amount of \$101,744.33* – The RTO treats the off-gases from the sludge drying system in compliance with the air quality permit. Operation of the RTO requires that the internal ceramic media be periodically replaced. Lessons learned by cross-training staff at the Encina Wastewater Authority's sludge dryer indicated that it would be easier and safer to access the media with stairs and a platform rather than a ladder. This item is for the labor and material to install both the stairs and a platform at the RTO.
- *Programming modifications for the microturbine's Capstone Logic Controller (CLC) in the amount of \$100,000* – The Biosolids Project calls for an energy system supplier to be responsible for both the biogas treatment and the microturbine systems. The controls for these systems was to be programmed into a programmable logic controller for the overall system. This controller would communicate with the CLC, which in turn controls the microturbines. For more reliable monitoring and enhanced automation, staff working

with the contractor and the microturbine supplier decided to increase the scope of the programming for the microturbine CLC. One feature of the enhanced automation is that the CLC will automatically turn on microturbines whenever adequate biogas is available rather than alerting an operator to do so. Additionally, the CLC will turn on the microturbine with the least run hours. This item is the cost for increasing the CLC programming.

Another advantage of this change is that the microturbines will be operational and ready for testing on natural gas by the March 2018 deadline for the Self-Generation Incentive Program (SGIP). This allows IRWD's microturbine project to remain eligible to receive the SGIP financial incentive when biogas is available for use in the microturbines later in 2018.

Staff recommends that the Board approve CCO No. 56 in the amount of \$201,744.33, which is attached as Exhibit "A". Items that do not claim or grant additional time are considered for full compensation. If items require additional time, the items included in this change order are at full compensation except for time impacts. FBB reserves the right to claim time impacts, but must show any time impacts to the project's critical path and how IRWD is responsible for these time impacts. Resolution of these time impacts is scheduled for a later date. CCO No. 56 does not extend any of the milestone completion dates. The construction change order summary is attached as Exhibit "B".

FISCAL IMPACTS:

The MWRP Biosolids and Energy Recovery Facilities Project 04286 is included in the FY 2017-18 Capital Budget. The existing budget is sufficient to fund the change order. Through CCO No. 56 the total change order amount is \$15,812,812.77, or 9.67% of the original contract, and the total contract amount is \$179,278,752.77.

ENVIRONMENTAL COMPLIANCE:

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

COMMITTEE STATUS:

This item was reviewed by the Engineering and Operations Committee on July 18, 2017.

Action Calendar: Michelson Water Recycling Plant Biosolids and Energy Recovery Facilities
Contract Change Order No. 56
July 24, 2017
Page 3

RECOMMENDATION:

THAT THE BOARD APPROVE CONTRACT CHANGE ORDER NO. 56 IN THE AMOUNT OF \$201,744.33 WITH FILANC/BALFOUR BEATTY FOR THE ADDITION OF STAIRS AND A PLATFORM FOR THE REGENERATIVE THERMAL OXIDIZER, AND PROGRAMMING MODIFICATIONS FOR THE MICROTURBINE'S CAPSTONE LOGIC CONTROLLER FOR THE MICHELSON WATER RECYCLING PLANT BIOSOLIDS AND ENERGY RECOVERY, PROJECT NO. 04286.

LIST OF EXHIBITS:

Exhibit "A" – Contract Change Order No. 56 with FBB
Exhibit "B" – Construction Change Order Summary

EXHIBIT "A"

CO.

DER



Irvine Ranch Water District

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

C.O. No. 56

Final

Project No. 04286

MWRP Biosolids and Energy Recovery Facilities

Project Title

Date: 07/11/2017

THE FOLLOWING CHANGE TO CONTRACT, DRAWINGS AND SPECIFICATIONS IS PROPOSED.	\$ ADDITIONS	\$ DELETIONS	DAYS ±
1. Addition of Stairs and Platform to RTO (CR-266) PR 4286 Task 5.29	\$101,744.33	\$0.00	0
2. Programming Modifications for Microturbine CLC (CR-277) PR 4286 Task 5.30	\$100,000.00	\$0.00	0
Notes: 1. For all items noted above, the Contractor reserves the right to compensable and/or excusable time extensions provided that time impacts to the Project's critical path are demonstrated to be beyond the Contractor's control. 2. Contractor reserves any and all rights it has and otherwise does not waive or release any claims it may have for additional compensation related to impact, including but not limited to the cumulative effect of the number, nature, or extent of any changes or design clarifications. 3. The project completion date of October 31, 2017 per CCO No. 45 is unchanged by this Change Order.			
TOTAL	\$201,744.33	\$0.00	0

DAYS ±

1. NET AMOUNT THIS CHANGE ORDER	=	\$201,744.33	0
2. ORIGINAL CONTRACT AMOUNT	=	\$163,465,940.00	1,278
3. TOTAL PREVIOUS CHANGE ORDER(S)	=	\$15,611,068.44	368
4. TOTAL BEFORE THIS CHANGE ORDER (2+ 3)	=	\$179,077,008.44	1,646
5. PROPOSED REVISED CONTRACT AMOUNT TO DATE (1+4)	=	\$179,278,752.77	1,646

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 Change 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 Change Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

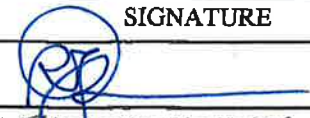
CSG-02

We hereby agree to make the above change subject to the terms of this change order for the sum of: Two-Hundred One Thousand Seven Hundred Forty-Four and 33/100 Dollars

7/13/2017
Date

Filanc/Balfour-Beatty
Contractor


By: Harry Cosmos, President

SIGNATURE	DATE	APPROVAL LEVEL REQUIRED
	<u>7/13/2017</u> Date	Department Director Approval Required <input type="checkbox"/>
<u>Steve Malloy</u> IRWD Engineer or Consulting Engineer	<u>7-13-17</u> Date	Executive Director Approval Required <input type="checkbox"/>
<u>Kevin L. Burton</u> Principal Engineer	<u>7-13-17</u> Date	General Manager Approval Required <input type="checkbox"/>
Executive Director of Engineering & Water Quality	Date	Board Approval Required <input checked="" type="checkbox"/>
General Manager	Date	Purchase Order No. <input type="checkbox"/>

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 Change 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 Change Order. The time for completing the contract will not be extended unless expressly provided for in this Change Order.

EXHIBIT "B"

MWRP Biosolids and Energy Recovery Facilities

Construction Change Order Summary

PR 21146 (4286)

Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O. days	Revised Total Contract Days	Revised Completion Date
1	Approved by Exe Director of Engineering and Water Quality Approved on October 24, 2013 Modifications to Road to Development Area - Delete AC to Triangle, add AB to Michelson (CR-004)	A	IRWD	\$ 20,202.42	\$20,202.42	\$0.00	\$20,202.42	0.01%	\$163,486,142.42	0	0	0	1,278	10/28/2016
2	Approved by Exe Director of Engineering and Water Quality Approved on November 13, 2013 Street Light Conduit Modifications (CR-007)	B	IRWD	\$ 12,475.08	\$12,475.08	\$20,202.42	\$32,677.50	0.02%	\$163,498,617.50	0	0	0	1,278	10/28/2016
3	Approved by Board of Directors Approved on March 10, 2014 Bid Quantity Adjustment of Bid Item 8.6 Pre-Drill	B	FBB	\$ 745,503.00	\$745,503.00	\$32,677.50	\$778,180.50	0.48%	\$164,244,120.50	0	0	0	1,278	10/28/2016
4	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 4.1 Installation of Five Additional Groundwater Wells and Monitoring - (CR-006) PR 21146 (4286) Task 3505 4.2 Brace Bay Modifications at the FOG Station - (CR-015) PR 21146 (4286) Task 3505 4.3 Grounding Extension at Nitrogen and Mineral Oil System (CR-025) PR 21146 (4286) Task 3510	A	IRWD	\$11,047.81	\$23,029.22	\$778,180.50	\$801,209.72	0.49%	\$164,267,149.72	0	0	0	1,278	10/28/2016
5	Approved by Exe Dir of Eng & Water Quality Approved on March 14, 2014 5.1 Unidentified Utility - Meter Shop Discharge (CR-008) PR 21146 (4286) Task 3505 5.2 Connection Beam Modifications at Solids Handling Facility (CR-014) PR 21146 (4286) Task 3235 5.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505	B	IRWD	\$15,225.75	\$24,851.73	\$801,209.72	\$826,061.45	0.51%	\$164,292,001.45	0	0	0	1,278	10/28/2016
6	Approved by General Manager Approved on March 20, 2014 6.1 Additional Costs to Install Piles to the Design Tip (CR-033) PR 21146 (4286) Task 3505	B	FBB	\$31,815.00	\$31,815.00	\$826,061.45	\$857,876.45	0.52%	\$164,323,816.45	0	0	0	1,278	10/28/2016
7	Approved by Exe Dir of Eng & Water Quality Approved on April 21, 2014 7.1 Meter Shop Discharge Pipe Leak Investigation and Repair (CR-013) PR 21146 (4286) Task 3505 7.2 Additional Reinforcement and Lifting Eyes for Removable Slabs at Solids Handling Building (CR-021) PR 21146 (4286) Task 3505 7.3 Increased Grating Thickness at Solids Handling Facility (CR-041) PR 21146 (4286) Task 3505 Additional Conductance Probe Materials for Relay Level Switches for Various Sumps Located at the Microturbine Area PR 21146 (4286) Task 3510	B	IRWD	\$2,542.00	\$24,725.00	\$857,876.45	\$882,601.45	0.54%	\$164,348,541.45	0	0	0	1,278	10/28/2016

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C O days	Revised Total Contract Days	Revised Completion Date
8	Approved by General Manager Approved on April 21, 2014				(\$49,990.00)	\$882,601.45	\$832,611.45	0.51%	\$164,298,551.45	0	0	0	1,278	10/28/2016
8.1	Cost Sharing for Project Partnering (CR- Credit for Primavera 7.0 Project Portfolio Management Software (CR-002) PR 21146 (4286) Task 3235	A	IRWD	(\$14,611.00)						0				
8.2	Deletion of Concrete Pad near Development Area (CR-004A) PR 21146 (4286) Task 3235	A	IRWD	(\$3,865.00)						0				
8.4	Deletion of Ground Test Device (CR-034) PR 21146 (4286) Task 3210	A	IRWD	(\$15,579.00)						0				
8.5	Deletion of Existing T-4 Switchgear Level Indicating Switch (CR-035) PR 21146 (4286) Task 3210	A	IRWD	(\$9,167.00)						0				
8.6	Change to NEMA 4X Panels and Modification to NEMA 4X Bar Graph Display (CR-046) PR 21146 (4286) Task 3210	A	IRWD	(\$4,068.00)						0				
9	Approved by Exe Director of Eng. & Water Quality Approved on May 31, 2014				\$24,840.17	\$832,611.45	\$857,451.62	0.52%	\$164,323,391.62	0	0	0	1,278	10/28/2016
9.1	Additional Circuits for Gas Monitors and Re-route of Conduits in Solids Handling Facility (CR-028) PR 21146 (4286) Task 3510	C	FBB	\$1,187.49						0				
9.2	Cantilevered Beam Support Modifications in the Solids Handling Facility (CR- 049) PR 21146 (4286) Task 3505	C	FBB	\$4,605.30						0				
9.3	Additional Ethernet Switches (CR-062) PR 21146 (4286) Task 3510	C	IRWD	\$19,047.38						0				
10	Approved by Exe Director of Eng. & Water Quality Approved on May 31, 2014				\$21,398.99	\$857,451.62	\$878,850.61	0.54%	\$164,344,790.61	0	0	0	1,278	10/28/2016
10.1	Additional Grace Ports for Various PLCs (CR-030) PR 21146 (4286) Task 3510	C	IRWD	\$8,580.62						0				
10.2	Provide H-20 Rated Hatches at WAS Pump Station and Valve Vault (CR-061) PR 21146 (4286) Task 3505	C	IRWD	\$12,818.37						0				
11	Approved by Exe Director of Eng. & Water Quality Approved on June 4, 2014				\$24,739.76	\$878,850.61	\$903,590.37	0.55%	\$164,369,530.37	#REF!	0	#REF!	#REF!	10/28/2016
11.1	Waste Activated Sludge (WAS) Pump Station Structural Modifications (CR- 023) PR 21146 (4286) Task 3505	C	IRWD	\$12,905.49						0				
11.2	Removable Slab Modifications on the Second Floor of Solids Handling Building (CR-064) PR 21146 (4286) Task 3505	C	IRWD	\$11,834.27						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
Construction Change Order Summary**

Contractor: Filane/Balfour-Beatty
Design Engine Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum. Total C O days	Revised Total Contract Days	Revised Completion Date
12	Approved by Board of Directors Approved on July 21, 2014				\$156,580.22	\$903,590.37	\$1,060,170.59	0.65%	\$164,526,110.59	0	0	0	1,278	10/28/2016
12.1	Final Bid Quantity Adjustment for Bid Item No 5 2 – Undocumented Fill (suitable) – Remedial Grading – Remove and Re-compact a net increase of 8,104.7 CY from 51,700 CY to 59,804.7 CY at \$5/CY. PR 21146 (4286) Task 3505	B	N/A	\$40,523.37						0				
12.2	Final Bid Quantity Adjustment for Bid Item No 5 5 - Undocumented Fill (not suitable) - Remedial Grading - Remove and Export Offsite, a net increase of 60 CY, from 1,800 CY to 1,860 CY at \$25 /CY. PR 21146 (4286) Task 3505	B	N/A	\$1,500.00						0				
12.3	Final Bid Quantity Adjustment for Bid Item No 5 6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	B	N/A	(\$2,165.60)						0				
12.4	Final Bid Quantity Adjustment for Bid Item No 5 6 - Geotextile Fabric - Remedial Grading, a net decrease of 5,414 SF, from 181,500 SF to 176,086 SF at \$0.40/SF. PR 21146 (4286) Task 3505	B	N/A	(\$6,523.33)						0				
12.5	Final Bid Quantity Adjustment for Bid Item No 5 8 - Undocumented Fill - Deep Foundations – Removal, a net increase of 966 CY, from 21,650 CY to 22,616 CY at \$5.50/CY. PR 21146 (4286) Task 3505	B	N/A	\$5,313.00						0				
12.6	Final Bid Quantity Adjustment for Bid Item No 5 9 - Alluvium - Remedial Grading - Removal and Export Offsite, a net increase of 2,076 CY, from 28,154 CY to 30,230 CY at \$35/CY. PR 21146 (4286) Task 3505	B	N/A	\$72,665.98						0				
12.7	Final Bid Quantity Adjustment for Bid Item No. 5 10 - Undocumented Fill Deep Foundations - Compaction of stockpiled materials, a net increase of 3,117 CY, from 11,400 CY to 14,517 CY at \$15/CY. PR 21146 (4286) Task 3505	B	N/A	\$46,755.00						0				
12.8	Final Bid Quantity Adjustment for Bid Item No 5 11 - Undocumented Fill - Deep Foundations - Export excess offsite a net decrease of 2,151 CY, from 10,250 CY to 8,099 CY. PR 21146 (4286) Task 3505	B	N/A	(\$30,114.00)						0				
12.9	Final Bid Quantity Adjustment for Bid Item No 5 12 - Geotextile Fabric - Deep Foundations, a net increase of 9,218 SF, from 51,500 SF to 60,718 SF at \$0.60/SF. PR 21146 (4286) Task 3505	B	N/A	\$5,530.80						0				
12.10	Final Bid Quantity Adjustment for Bid Item No 5 13 - Aggregate Base - Deep Foundations, a net increase of 513.2 CY, from 2,860 CY to 3,373.2 CY at \$45/CY. PR 21146 (4286) Task 3505	B	N/A	\$23,095.00						0				
13	Approved by Exe. Director of Engineering & Water Quality Approved on July 10, 2014				\$10,129.18	\$1,060,170.59	\$1,070,299.77	0.65%	\$164,536,239.77	0	0	0	1,278	10/28/2016
13.1	Modifications to Switchgear 16 (CR-070) PR 21146 (4286) Task 3510	A	FBB	\$10,129.18						0				
14	Approved by General Manager Approved on June 24, 2014				\$44,543.19	\$1,070,299.77	\$1,114,842.96	0.68%	\$164,580,782.96	0	0	0	1,278	10/28/2016
14.1	Slide Gates Clarification Regarding Actuators (CR-039) PR 21146 (4286) Task 3520	A	IRWD	\$44,543.19						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
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15	Approved by General Manager Approval on July 31, 2014				\$45,214.40	\$1,114,842.96	\$1,160,057.36	0.71%	\$164,625,997.36	0	0	0	1,278	10/28/2016
15.1	Provide Masonry Shelf Angle at Digester Control Building (CR-031) PR 21146 (4286) Task 3505	C	FBB	\$27,543.19						0				
15.2	Beam Size Increase for Monorail Runway in Solids Handling Building - (CR-074) PR 21146 (4286) Task 3505	C	FBB	\$1,200.47						0				
15.3	Upsize Odor Control Circulation Pump Motor Disconnects (CR-082) PR 21146 (4286) Task 3510	B	FBB	\$1,184.83						0				
15.4	Additional Deck Support for the Solids Handling Building Roof (CR-044) PR 21146 (4286) Task 3505	C	FBB	\$15,285.91						0				
16	Approved by E&O Committee Approved on August 19, 2014				\$62,037.10	\$1,160,057.36	\$1,222,094.46	0.75%	\$164,688,034.46	0	0	0	1,278	10/28/2016
16.1	Installation of Level 3 Diesel Particulate Filter (DPF) on the Standby Generator - (CR-073) PR 21146 (4286) Task 3520	B	IRWD	\$62,037.10						0				
17	Approved by Board of Directors Approved on August 25, 2014				(\$106,241.99)	\$1,222,094.46	\$1,115,852.47	0.68%	\$164,581,792.47	0	0	0	1,278	10/28/2016
17.1	Modifications to Switchgear 16 (CR-070A) PR 21146 (4286) Task 3510	A	FBB	(\$106,241.99)						0				
18	Approved by Board of Directors Approved on August 25, 2014				\$108,087.55	\$1,115,852.47	\$1,223,940.02	0.75%	\$164,689,880.02	0	0	0	1,278	10/28/2016
18.1	Stormwater Drainage System Modification (CR-017) PR 21146 (4286)	A	IRWD	\$108,087.55						0				
19	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2014				\$72,572.86	\$1,223,940.02	\$1,296,512.88	0.79%	\$164,762,452.88	0	0	0	1,278	10/28/2016
19.1	Modification to Switchgear 16 (CR-070B) PR 21146 (4286) Task 3510	A	IRWD	\$1,125.75						0				
19.2	Alluvium Removal Due to 36-inch Storm Drain Installation (CR-085) PR 21146 (4286) Task 3520	B	N/A	\$14,140.00						0				
19.3	Additional Structural Support for Fats, Oils, and Grease (FOG) Grinders (CR-081) PR 21146 (4286) Task 3505	C	FBB	\$8,323.99						0				
19.4	Portable Lift Truck for 480V ABB Breakers (CR-108) PR 21146 (4286) Task 3510	A	IRWD	\$2,625.12						0				
19.5	Retaining Wall North and West of Biosolids Site (CR-010) PR 21146 (4286) Task 3505	B	IRWD	\$46,358.00						0				
20	Approved by Executive Director of Engineering & Water Quality Approved on November 19, 2014				\$54,485.63	\$1,296,512.88	\$1,350,998.51	0.83%	\$164,816,938.51	0	0	0	1,278	10/28/2016
20.1	Nitrogen Slab Modifications (CR-052) PR 21146 (4286) Task 3505	A	IRWD	\$24,855.80						0				
20.2	Additional Conduits and Circuits for the Access Control Systems for the Solids Handling Building and the Digester Control Building (CR-082) PR 21146	A	IRWD	\$3,412.13						0				
20.3	Digital Power Meters Change for SWGR-14 and SWGR-15 (CR-109) PR 21146 (4286) Task 3510	A	IRWD	\$3,863.22						0				
20.4	Truck Unloading Panel Modifications (CR-115) PR 21146 (4286) Task 3510	A	IRWD	\$12,843.50						0				
20.5	Switchgear SWGR-14 Modifications (CR-116) PR 21146 (4286) Task 3510	A	IRWD	\$9,510.98						0				
21	Approved by General Manager Approved on January 30, 2015				\$ 98,506.19	\$1,350,998.51	\$1,449,504.70	0.89%	\$164,915,444.70	0	0	0	1,278	10/28/2016
21.1	Additional Anchorage for Methane Digesters (CR-051A) PR 21146 (4286) Task 3520	B	FBB	\$92,367.44						0				
21.2	Additional Input/Outputs Review of Master I/O List (CR-136) PR 21146 (4286) Task 3510	C	FBB	\$6,138.75						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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Design Engine Black & Veatch

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22	Approved by Board of Directors Approved on February 9, 2015				\$964,324.51	\$1,449,504.70	\$2,413,829.21	1.48%	\$165,879,769.21	0	0	0	1,278	10/28/2016
22.1	Electrical Conduit Overfill (CR-055) PR 21146 (4286) Task 3510	C	FBB	\$485,250.28						0				
22.2	Heat Dryer Equipment Escalation Costs (CR-057) PR 21146 (4286) Task 3520	B	FBB	\$333,477.50						0				
22.3	Glass-lining Sludge Density Meters (CR-067) PR 21146 (4286) Task 3510	A	IRWD	\$71,010.74						0				
22.4	Switchgear-16 Enclosure (CR-040) PR 21146 (4286) Task 3510	C	FBB	\$56,882.30						0				
22.5	Propane Gas Tank Foundation Demolition (CR-084) PR 21146 (4286) Task 3505	C	IRWD	\$2,004.98						0				
22.6	Credit for travel costs related to inspection of centrifuges in Germany (CR-091) PR 21146 (4286) Task 3520	A	IRWD	(\$5,573.42)						0				
22.7	Deletion of MMC Switchgear-14 Breaker (CR-092) PR 21146 (4286) Task 3510	A	IRWD	(\$5,032.00)						0				
22.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	C	IRWD	\$23,269.61						0				
22.9	Overtime to perform work in the Solids Handling electrical room (CR-103) PR 21146 (4286) Task 3510	A	IRWD	\$1,384.47						0				
22.10	Credit for modification to the Uninterruptible Power System (CR-118) PR 21146 (4286) Task 3510	A	IRWD	(\$9,771.72)						0				
22.11	Addition of Low Voltage Compartment in SCE Switch "C" (CR-160) PR 21146 (4286) Task 3510	A	IRWD	\$2,156.20						0				
22.12	Addition of input/output points relating to sump pumps located at the Solids Handling Building (CR-161) PR 21146 (4286) Task 3510	A	FBB	\$9,265.57						0				
23	Approved by General Manager Approved on February 26, 2015				\$97,005.10	\$2,413,829.21	\$2,510,834.31	1.54%	\$165,976,774.31	0	0	0	1,278	10/28/2016
23.1	Additional Steel Reinforcement the Pellet Storage Silos Anchor Bolts (CR-094) PR 21146 (4286) Task 3505	B	FBB	\$5,514.57						0				
23.2	Differential Pressure Transmitter (CR-094) PR 21146 (4286) Task 3510	A	IRWD	\$2,535.33						0				
23.3	Additional Aluminum Trench Grating in Digester Control Building (CR-107) PR 21146 (4286) Task 3520	A	IRWD	\$7,552.11						0				
23.4	Light Weight Concrete for Electrical Conduits Underneath the Solids Handling Building Electrical Room (CR-113) PR 21146 (4286) Task 3510	A	IRWD	\$30,535.94						0				
23.5	Adding Energyjets Weir Plates to Dewatering Centrifuges - (CR-124) PR 21146 (4286) Task 3520	A	IRWD	\$11,139.25						0				
23.6	Provide Angle Supports for the Removable Slabs at the Solids Handling Building - (CR-137) PR 21146 (4286) Task 3520	A	IRWD	\$20,671.61						0				
23.7	Structural Modification at Solids Handling Building - (CR-140) PR 21146 (4286) Task 3520	C	FBB	\$1,109.42						0				
23.8	Increase of Fiber Optic Conduit Size (CR-097) PR 21146 (4286) Task 3510	A	IRWD	\$5,516.45						0				
23.9	Steel Joist Framing Modifications at Digester Control Building (CR-151) PR 21146 (4286) Task 3505	C	FBB	\$2,286.29						0				
23.10	WAS Valve Vault and Piping Modifications (CR-100) PR 21146 (4286) Task 3520	A	IRWD	\$10,144.13						0				
24	Approved by General Manager Approved on March 6, 2015				\$99,122.95	\$2,510,834.31	\$2,609,957.26	1.60%	\$166,075,897.26	0	0	0	1,278	10/28/2016
24.1	Coating of WAS/Primary Sludge Pump Stations & Sludge Wetwells per RFI-0612A (CR-127) PR 21146 (4286) Task 3505	A	FBB	\$99,122.95						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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25	Approved by Board of Directors Approved on March 23, 2015				\$280,575.97	\$2,609,957.26	\$2,890,533.23	1.77%	\$166,356,473.23	0	0	0	1,278	10/28/2016
25.1	Lightning Protection for the Methane Digesters (CR-121) PR 21146 (4286) Task 3505	C	FBB	\$158,259.68						0				
25.2	Deflagration Quench Tubes outside of the Dryer Room (CR-143) PR 21146 (4286) Task 3505	B	FBB	\$122,316.29						0				
26	Approved by Exe Dir Of Engineering & Water Quality Approved on April 14, 2015				\$74,815.79	\$2,890,533.23	\$2,965,349.02	1.81%	\$166,431,289.02	0	0	0	1,278	10/28/2016
26.1	UPS and Power Fail Alarms per RFI 357 (CR-056) PR 21146 (4286) Task 3510	C	FBB	\$3,646.82						0				
26.2	I/O Points for Methane Digester Sump Pumps per RFI-356 (CR-077) PR 21146 (4286) Task 3510	C	FBB	\$6,489.00						0				
26.3	Loss of Power Alarms to the SCADA Network per RFI-0393B (CR-093) PR	A	FBB	\$20,297.16						0				
26.4	FOG Flushing and Rock Trap Modifications per RFI-0534 (CR-101) PR 21146	A	IRWD	\$18,093.61						0				
26.5	Install Grounding Pig Tails in Solids Handling Building Area Electrical Room per RFI 0594 (CR-105) PR 21146 (4286) Task 3510	A	IRWD	\$1,593.10						0				
26.6	Additional Pushbuttons, Light and Relays for the FOG Receiving Control Panel (CR-114) PR 21146 (4286) Task 3510	A	IRWD	\$6,892.40						0				
26.7	Changes to the HMI Enclosures at the Sludge Receiving Area (CR-133) PR 21146 (4286) Task 3510	A	IRWD	\$7,114.17						0				
26.8	Provide Storage Shelf for Keyboard and Mouse to the HMI Enclosures at the Sludge Receiving Area (CR-135) PR 21146 (4286) Task 3510	A	IRWD	\$1,163.26						0				
26.9	Dewatering Feed Pump Station Guardrail Additions (CR-142) PR 21146 (4286) Task 3520	C	FBB	\$4,204.00						0				
26.10	Additional I/O Points for PLC-4300 (CR-156) PR 21146 (4286) Task 3510	C	FBB	\$3,035.28						0				
26.11	Shoring Revision to Roof Slab of Dewatering Feed Pump Station (CR-189) PR 21146 (4286) Task 3510	B	FBB	\$1,286.99						0				
26.12	Coating of the Sludge Receiving Bins (CR-199) PR 21146 (4286) Task 3520	A	FBB	\$1,000.00						0				

**MWRP Biosolids and Energy Recovery Facilities
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27	Approved by Board of Directors Approved on April 27, 2015				\$107,253.26	\$2,965,349.02	\$3,072,602.28	1.88%	\$166,538,542.28	0	0	0	1,278	10/28/2016
27.1	Modifications to Human-Machine Interface (HMI) for the Microturbine Area (CR-078) PR 21146 (4286) Task 3510	A	IRWD	\$29,744.43						0				
27.2	Modifications to the Piping and Automation Features at Fats, Oils, and Grease (FOG) Facility (CR-129) PR 21146 (4286) Task 3510	A	IRWD	\$35,771.81						0				
27.3	Structural Support to the Monorail at the Dewatering Feed Pump Station (CR-152) PR 21146 (4286) Task 3505	C	FBB	\$13,697.51						0				
27.4	Two Additional Magnetic Flowmeters at Polymer Feed System (CR-158) PR 21146 (4286) Task 3510	A	IRWD	\$9,522.81						0				
27.5	Modifications to PLCs at Sludge Receiving Area (CR-180) PR 21146 (4286) Task 3510	A	IRWD	\$18,516.70						0				
28	Approved by Exe Dir Of Eng. & Water Quality Approved on May 15, 2015				\$74,550.35	\$3,072,602.28	\$3,147,152.63	1.93%	\$166,613,092.63	0	0	0	1,278	10/28/2016
28.1	Decanter Control Panel Modifications (CR-215) Task 3520	C	FBB	\$22,451.01						0				
28.2	Additional Structural Support in the Solids Handling Building (CR-075) Task 3505	C	FBB	\$12,028.44						0				
28.3	Additional Sump Pump Drain Line in the Bulk Polymer Storage Area (CR-119) Task 3520	C	FBB	\$1,433.86						0				
28.4	Install Three 5-inch conduits on Southwest Side of the Biosolids Site (CR-120) Task 3510	C	FBB	\$16,033.58						0				
28.5	Provide Power to Several Instruments Located at the Solids Handling Building and Digester Control Building (CR-154) Task 3520	C	FBB	\$3,454.91						0				
28.6	Install Foam Separator Drain at Digester Control Building (CR-167) Task 3520	C	FBB	\$11,013.75						0				
28.7	Install Support for 14-inch Plug Valve at Centrate Treatment Wetwell (CR-197) Task 3520	C	FBB	\$1,715.20						0				
28.8	Trench Modifications at the Sludge Cake Load-Out Area of the Solids Handling Building (CR-123) Task 3505	C	FBB	\$6,419.60						0				
29	Approved by Board of Directors Approved on June 22, 2015				\$225,971.77	\$3,147,152.63	\$3,373,124.40	2.06%	\$166,839,064.40	0	0	0	1,278	10/28/2016
29.1	Foul Air Pipe Supports in the Solids Handling Building Basement (CR-106) PR 21146 (4286) Task 3520	C	FBB	\$119,937.87						0				
29.2	Secondary Circuit Breaker for Transformer T-14 (CR-185) PR 21146 (4286) Task 3510	A	IRWD	\$106,033.90						0				

MWRP Biosolids and Energy Recovery Facilities
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30	Approved by Board of Directors Approved on July 27, 2015				(\$47,976.59)	\$3,373,124.40	\$3,325,147.81	2.03%	\$166,791,087.81	0	0	0	1,278	10/28/2016
30.1	Credit for Changing Storm Drain line from Ductile Iron to PVC (CR-042) PR 21146 (4286) Task 3520	A	IRWD	(\$1,890.92)						0				
30.2	Installation of Additional Digester Anchorage (CR-051B) PR21146 (4286) Task 3505	B	FBB	\$118,335.54						0				
30.3	Huber Screens I/O Modifications per RFI-0391 and RFI-0525A (CR-068) PR 21146 (4286) Task 3510	A	IRWD	\$12,579.20						0				
30.4	Credit for FBB's Portion of Partnering (CR-090) PR 21146 (4286) Task	E	FBB	(\$81,948.33)						0				
30.5	Deletion of Waterstops at Methane Digester Complex (CR-102) PR 21146 (4286) Task 3505	A	IRWD	(\$2,505.79)						0				
30.6	Deletion of Bid Item No 18 4 - Computers and Networking Hardware for the Control System (CR-138) PR 21146 (4286) Task 3510	A	IRWD	(\$200,000.00)						0				
30.7	Electrical and Gas Modifications (CR-146) PR 21146 (4286) Task 3510	C	IRWD	\$363,978.41						0				
30.8	Credit for Changing Heat Dryer Wet Material Mixer from A24 Steel to A36 Steel (CR-157) PR 21146 (4286) Task 3520	E	FBB	(\$2,392.66)						0				
30.9	Credit for Travel Cost of On-Site Inspection for Acid Phase Digester (CR-175) PR 21146 (4286) Task 3520	B	IRWD	(\$683.39)						0				
30.1	Heat Dryer I/O Modifications per RFI-0626 (CR-179) PR 21146 (4286) Task 3510	A	IRWD	\$11,191.41						0				
30.11	Decant Trough I/O Modifications per RFI-0979 (CR-202) PR 21146 (4286) Task 3510	A	IRWD	\$9,960.55						0				
30.12	Deletion of Interior Coating of Methane Digesters (CR-188) PR 21146 (4286) Task 3520	A	IRWD	(\$398,571.00)						0				
30.13	Piping Modifications and Addition of Carbon Canisters (CR-218) PR 21146 (4286) Task 3520	A	IRWD	\$88,076.01						0				
30.14	Pickling and Passivation of Sludge Mixers (CR-248) PR 21146 (4286) Task 3520	C	IRWD	\$73,997.23						0				
30.15	IRWD Costs Associated to Repairing the Pile and Installing Couplers (CR-139) PR 21146 (4286) Task 3505	E	FBB	(\$38,102.85)						0				

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31	Approved by Exe. Dir. Of Eng. & Water Quality Approved on July 28, 2015				\$74,999.74	\$3,325,147.81	\$3,400,147.55	2.08%	\$166,866,087.55	0	0	0	1,278	10/28/2016
31.1	Provide Circuit and Breaker for Standby Generator in the Microturbine Area (CR-170) PR 21146 (4286) Task 3510	C	FBB	\$4,296.86						0				
31.2	Additional Pipe Support for 14-inch Air Line at the Centrate Facility (CR-226) PR 21146 (4286) Task 3520	C	FBB	\$893.78						0				
31.3	Addition of E-stops (CR-128) PR 21146 (4286) Task 3510	A	FBB	\$57,916.71						0				
31.4	Structural Support of Jib Crane at Dewatering Feed Pump Station Stairwell (CR-243) PR 21146 (4286) Task 3520	C	FBB	\$11,892.39						0				
32	Approved by Exe. Dir. Of Eng. & Water Quality Approved on August 31, 2015				\$74,682.96	\$3,400,147.55	\$3,474,830.51	2.13%	\$166,940,770.51	0	0	0	1,278	10/28/2016
32.1	Additional Conduits and Circuits for Fire Alarm in the Solids Handling Building	A	IRWD	\$21,637.57						0				
32.2	Additional Davit Bases at Centrate Treatment Facility (CR-111) PR 21146 (4286) Task 3520	A	IRWD	\$1,809.77						0				
32.3	Additional Fire Alarm Panel in Digester Control Building (CR-169) PR 21146 (4286) Task 3510	A	IRWD	\$25,153.79						0				
32.4	Modifications to FOG Sump Pumps Controls (CR-177) PR 21146 (4286) Task 3510	A	IRWD	\$5,690.83						0				
32.5	Additional Truck Load-out Conveyor Input and Output (CR-201) PR 21146 (4286) Task 3510	A	IRWD	\$2,220.12						0				
32.6	Additional Spare Conduits in the Microturbine Area (CR-229) PR 21146 (4286) Task 3510	A	FBB	\$14,602.41						0				
32.7	Conduits for Electrical Disconnect Switch for Roll-Up Doors of the Digester Control Building (CR-230) PR 21146 (4286) Task 3510	A	IRWD	\$3,568.47						0				
33	Approved by Executive Director of Engineering & Water Quality Approved on September 30, 2015				\$58,247.75	\$3,474,830.51	\$3,533,078.26	2.16%	\$166,999,018.26	0	0	0	-	1/0/1900
33.1	Realignment of 8-inch Reclaimed Water Line at Gate 2 (CR-225) PR 21146 (4286) Task 3520	B	FBB	\$24,017.48						0				
33.2	Additional Conduits and Wires for Lighting Circuits to Minimize Voltage Drop (CR-228) PR 21146 (4286) Task 3510	C	IRWD	\$32,399.41						0				
33.3	Cable and Conduit Changes at Solids Handling Building and Dewatering Feed Pump Station (CR-231) PR 21146 (4286) Task 3510	C	IRWD	\$1,830.86						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

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				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C O days	Revised Total Contract Days	Revised Completion Date
34	Approved by Board of Directors Approved on October 26, 2015				\$164,775.28	\$3,533,078.26	\$3,697,853.54	2.26%	\$167,163,793.54	0	0	0	1,278	10/28/2016
34.1	Credit for Third Submittal Review Through 05/31/2015 (CR-088) PR 21146 (4286) Task 1065	B	IRWD	(\$39,502.50)						0				
34.2	Credit for Overtime Inspection Hours Through 05/31/2015 (CR-089) PR 21146 (4286) Task 3520	E	FBB	(\$80,850.00)						0				
34.3	Credit for Special Inspections for Structural Anchors and Geotechnical Investigation (CR-295) PR 21146 (4286) Task 1065	A	IRWD	(\$27,500.00)						0				
34.4	Change in Knife Gate Valve Manufacturer (CR-187) PR 21146 (4286) Task 3520	E	FBB	\$275,954.90						0				
34.5	Credit for Changes in Low Voltage SWGR-14 Circuit Breaker (CR-163) PR 21146 (4286) Task 3510	A	IRWD	(\$1,978.00)						0				
34.6	Change to Addressable Smoke Detectors (CR-220) PR 21146 (4286) Task 3510	B	IRWD	\$38,650.88						0				
35	Approved by General Manager Approved on November 25, 2015				\$97,980.57	\$3,697,853.54	\$3,795,834.11	2.32%	\$167,261,774.11	0	0	0	1,278	10/28/2016
35.1	Change in Naming Convention for Storm Water Pump Station (Area 1500) SCADA Programming (CR-181) PR 21146 (4286) Task 3510	E	FBB	\$9,027.03						0				
35.2	Valve Status Override Functionality (CR-182) PR 21146 (4286) Task 3510	E	FBB	\$38,999.08						0				
35.3	Control Changes for Primary Sludge and Waste Activated Pump Stations (Area 1900) SCADA Programming (CR-184) PR 21146 (4286) Task 3510	A	IRWD	\$36,772.78						0				
35.4	Motor Protection Relay (CR-239) PR 21146 (4286) Task 3510	A	IRWD	\$13,181.68						0				
36	Approved by General Manager Approved on December 3, 2015				\$86,007.50	\$3,795,834.11	\$3,881,841.61	2.37%	\$167,347,781.61	0	0	0	1,278	10/28/2016
36.1	Light Weight Concrete for Underslab Conduits at Microturbine Area (CR-253) PR 21146 (4286) Task 3510	A	FBB	\$21,117.50						0				
36.2	Outstanding CB&I Items (CR-099A) PR 21146 (4286) Task 3520 - This change order includes: CR-098 (Guard Rail at Biogas Storage Tank); CR-099 (Tube Steel Supports); additional Off-Site Storage Costs; and credit for Use of SS 308 in Lieu of SS 316L Welds.	B	FBB	\$64,890.00						0				
37	Approved by Exe. Director of Engineering and Water Quality Approved on January 21, 2016				\$47,446.49	\$3,881,841.61	\$3,929,288.10	2.40%	\$167,395,228.10	0	0	0	1,278	10/28/2016
37.1	Additional Pressure Relief Valves in the Digester Control Building Slab (CR-112) PR 21146 (4286) Task 3520	C	IRWD	\$1,065.72						0				
37.2	Change Feeder Circuit Breaker Size in MCC-4102 (CR-165) PR 21146 (4286) Task 3510	C	IRWD	\$4,157.60						0				
37.3	Change Feeder Circuit Breaker Size for the Primary Sludge Pump Variable Frequency Drive (CR-233) PR 21146 (4286) Task 3510	C	IRWD	\$2,430.59						0				
37.4	SCADA Programming Changes Due to Change to Schweitzer Power Quality Additional Labeling of Parallel Conduits and Cables (CR-262) PR 21146 (4286) Task 3510	A	FBB	\$16,814.00						0				
37.5	Change in Sludge Receiving Entrance Beacon Operation CR-263 PR 21146 (4286) Task 3510	A	IRWD	\$5,382.19						0				
37.6	Anodize Aluminum Light Fixture Stanchions/Sun Shades (CR-283) PR 21146 (4286) Task 3510	A	IRWD	\$5,911.61						0				
37.7		A	FBB	\$3,274.78						0				
37.8	Hot Tap 8-Inch ACP Potable Water Line (CR-311) PR 21146 (4286) Task 3520	A	FBB	\$3,274.78						0				

**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
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Design Engine Black & Veatch

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38	Approved by General Manager Approved on February 29, 2016				\$83,345.07	\$3,929,288.10	\$4,012,633.17	2.45%	\$167,478,573.17	0	0	0	1,278	10/28/2016
38.1	Software Control Block Revision for Area 4300 – Dewatering (CR-211) PR 4286 Task 3510	C	FBB	\$18,908.76						0				
38.2	Revised Master List of SCADA Templates (CR-247) PR 4286 Task 3510	C	FBB	\$47,274.54						0				
38.3	Additional Overflow Alarms at Sludge Holding Tanks (CR-280) PR 4286 Task 3510	A	IRWD	\$9,654.54						0				
38.4	Leak Detection at Sulfuric Acid Facility (CR-290) PR 21146 (4286) Task 3510	A	IRWD	\$5,499.97						0				
38.5	Insulation for Acid Phase Gas Piping (CR-218A) PR 21146 (4286) Task 3520	A	IRWD	\$2,007.26						0				
39	Approved by General Manager Approved on March 7, 2016				\$98,006.46	\$4,012,633.17	\$4,110,639.63	2.51%	\$167,576,579.63	0	0	0	1,278	10/28/2016
39.1	SCE Installation - Final Accounting of Work Items Between Negotiated Change Order and Actual Work (CR-146E) PR 4286 Task 3510	B	FBB	\$7,809.51						0				
39.2	Installation of Southern California Gas (SCG) Boxes (CR-146F) PR 4286 Task 3510	A	FBB	\$3,479.81						0				
39.3	Schweitzer SEL-735 Power Monitors for Centrifuge Panels (CR-207) PR 4286 Task 3510	A	IRWD	\$34,274.40						0				
39.4	Hirschmann Ethernet Switches for Centrifuge Panels (CR-208) PR 4286 Task 3510	A	IRWD	\$9,569.15						0				
39.5	Addition of Sample Pump Variable Frequency Drives for Thickening Centrifuges (CR-237) PR 4286 Task 3520	E	IRWD	\$24,496.55						0				
39.6	Upgrade of Exit Signs and Ceiling Lights in the Gas Room of the Digester Control Building to NEC Class 1 Division 1 (CR-313) PR 4286 Task 352	A	IRWD	\$18,377.04						0				
40	Approved by General Manager Approved on April 20, 2016				\$97,287.05	\$4,110,639.63	\$4,207,926.68	2.57%	\$167,673,866.68	0	0	0	1,278	10/28/2016
40.1	Brace Plates in Solids Handling Building (CR-069) PR 4286 Task 3505	C	FBB	\$40,216.76						0				
40.2	Relocation of RIO-50 Panel (CR-186) PR 4286 Task 3510	B	FBB	\$4,818.64						0				
40.3	Addition of Two Doors at the bases of the stairways at Methane Digesters Nos 1 and No. 2 (CR-232) PR 4286 Task 3505	C	FBB	\$52,251.65						0				

**MWRP Biosolids and Energy Recovery Facilities
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41	Approved By Board of Directors Approved on May 23, 2016				\$1,103,650.56	\$4,207,926.68	\$5,311,577.24	3.25%	\$168,777,517.24	0	0	0	1,278	10/28/2016
41.1	Additional SCE and SCG Modifications (CR-146A) PR 4286 Task 3510	B	FBB	\$51,238.69						0				
41.2	Additional Potholing Due to SCE and SCG Realignment (CR-146B) PR 4286 Task 3510	B	FBB	\$36,706.57						0				
41.3	Additional Cameras at the Unloading/Loading Area of the Solids Handling Facility (CR-164) PR 4286 Task 3505	A	IRWD	\$61,731.96						0				
41.4	Fire Sprinkler System Modifications – Mechanical (CR-174) PR 4286 Task 3520	B	IRWD	\$154,592.08						0				
41.5	Fire Sprinkler System Modifications – Electrical (CR-166) PR 4286 Task 3510	B	IRWD	\$13,730.06						0				
41.6	Fiber Optic System Modifications (CR-172/CR-306/CR-314) PR 4286 Task 3510	A	IRWD	\$178,879.46						0				
41.7	T-15, T-16, and T-17 Secondary Breakers (CR-185A, CR-185B, and CR-185C) PR 4286 Task 3510	A	IRWD	\$254,941.66						0				
41.8	Cable and Conduit Changes at the Sludge Receiving Area of the Solids Handling Building (CR-203) PR 4286 Task 3510	C	FBB	\$14,338.94						0				
41.9	Concrete Surface Treatment (CR-222) PR 4286 Task 3505	A	IRWD	\$68,714.34						0				
41.1	Heating Water Boiler Control Modifications (CR-246) PR 4286 Task 3510	A	IRWD	\$71,379.00						0				
41.11	SCADA Control Modifications for the Acid Phase Digesters, Methane Digesters, and Sludge Holding Tank (CR-252) PR 4286 Task 3510	A	IRWD	\$50,540.23						0				
41.12	Ambient Gas Analyzer Wiring Modification (CR-264) PR 4286 Task 3510	B	IRWD	\$19,734.51						0				
41.13	Disconnect Switches for Flow Valves in the Solids Handling Building (CR-272) PR 4286 Task 3510	C	IRWD	\$25,550.26						0				
41.14	Centrifuge Pedestal Modifications (CR-301) PR 4286 Task 3505	C	IRWD	\$30,603.14						0				
41.15	SCADA, Instrumentation, and Electrical Modifications (CR-287, CR-294, and CR-322) PR 4286 Task 3510	A	IRWD	\$70,969.66						0				
42	Approved By Board of Directors Approved on May 23, 2016				(\$199,771.09)	\$5,311,577.24	\$5,111,806.15	3.13%	\$168,577,746.15	0	0	0	1,278	10/28/2016
42.1	Value Engineering of Chemical Pump Systems (CR-054) PR 4286 Task 3520	E	FBB	(\$48,549.90)						0				
42.2	Change in Lightning Protection Installation for Egg-Shaped Digesters (CR-121A) PR 4286 Task 3510	E	FBB	(\$97,141.74)						0				
42.3	Deletion of Seal Water Stations and Seal Water Piping (CR-214) PR 4286 Task 3520	A	IRWD	(\$10,557.28)						0				
42.4	Deletion of Low Pressure Switches for Centrate Pumps (CR-257) PR 4286 Task 3510	A	IRWD	(\$1,748.17)						0				
42.5	Centrifuge Seismic Restraint Design Costs (CR-345) PR 4286 Task 1065	A	IRWD	(\$24,064.00)						0				
42.6	Credit for Overtime Inspection Hours From 6/1/2015 to Through 12/31/2015 (CR-089B) PR 4286 Task 1065	E	FBB	(\$17,710.00)						0				

**MWRP Biosolids and Energy Recovery Facilities
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43	Approved by Exe. Director of Engineering and Water Quality Approved on May 31, 2016				\$74,731.69	\$5,111,806.15	\$5,186,537.84	3.17%	\$168,652,477.84	0	0	0	1,278	10/28/2016
43.1	Combustible Gas Detection System (CR-234) PR 21146 (4286) Task 3510	E	FBB	\$18,843.39						0				
43.2	Additional Wires and Cables Between MCC-4102 and PLC-4000 (CR-278) PR 21146 (4286) Task 3510	C	FBB	\$1,775.13						0				
43.3	SCADA Programming Modifications (CR-282) PR 21146 (4286) Task 3510	E	FBB	\$49,679.02						0				
43.4	Change of Waste Gas Burner Feeder Circuit Breaker (CR-344) PR 21146 (4286) Task 3510	B	FBB	\$4,434.15						0				
44	Approved by Exe. Director of Engineering and Water Quality Approved on June 29, 2016				\$74,912.99	\$5,186,537.84	\$5,261,450.83	3.22%	\$168,727,390.83	0	0	0	1,278	10/28/2016
44.1	Electrical and Telephonic Modifications for Elevators for Solids Handling Building and Digester Control Building (CR-037A) PR 4286 Task 3510	C	FBB	\$38,882.06						0				
44.2	Odor Control Recirculation Pump Selector Switch SCADA Modifications (CR-343) PR 4286 Task 3510	A	IRWD	\$9,294.71						0				
44.3	SCADA Valve Matrix Tables Animation Clarification for Milestone 1 (CR-353) PR 4286 Task 3510	A	IRWD	\$9,195.86						0				
44.4	PLC Status Object Update (CR-234) PR 4286 Task 3510	B	FBB	\$4,783.14						0				
44.5	Elevator Safety Beam in the Digester Control Building (CR-302) PR 4286 Task 3505	C	FBB	\$3,830.95						0				
44.6	Masonry Changes to the North Retaining Wall (CR-365) PR 4286 Task 3505	B	IRWD	\$8,926.27						0				
45	Approved by Board of Directors Approved on July 25, 2016/December 20, 2016				\$9,250,000.00	\$5,261,450.83	\$14,511,450.83	8.88%	\$177,977,390.83	368	0	368	1,646	10/31/2017
45.1	Recovery Plan PR 4286 Task 3510	B	FBB	\$9,250,000.00						368				

**MWRP Biosolids and Energy Recovery Facilities
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46	Approved by General Manager Approved on January 27, 2017				\$94,696.76	\$14,511,450.83	\$14,606,147.59	8.94%	\$178,072,087.59	0	368	368	1,646	10/31/2017
46.1	Additional Masonry Anchor in the Solids Handling Building (CR-200) PR 4286	C	IRWD	\$1,457.22						0				
46.2	Additional Auto Dialer (CR-234A) PR 4286 Task 3510	A	IRWD	\$6,081.90						0				
46.3	Grating and Handrail Modifications at Bulk Polymer Storage Platform (CR-300) PR 4286 Task 3505	A	IRWD	\$5,568.83						0				
46.4	SCADA IP Address Update (CR-309) PR 4286 Task 3510	A	IRWD	\$1,227.96						0				
46.5	Masonry Modifications at Solids Handling Building Stairwell (CR-324) PR 4286 Task 3505	C	FBB	\$5,939.45						0				
46.6	Change in Valve Operator at the Centrate Treatment Facility (CR-329) PR 4286 Task 3520	A	IRWD	\$4,824.29						0				
46.7	Boot Wash Landing Addition (CR-349) PR 4286 Task 3505	C	FBB	\$1,834.60						0				
46.8	Updating Valve Analog SCADA Template (CR-354) PR 4286 Task 3510	A	IRWD	\$692.72						0				
46.9	Additional Light Fixtures and Lamps (CR-355A) PR 4286 Task 3510	A	IRWD	\$8,508.46						0				
46.10	Addition of Rebate Angle in the FOG Unloading Sump Area (CR-363) PR 4286 Task 3505	A	IRWD	\$763.62						0				
46.11	MCC-4103 Hot Water Circulation Pump Breakers Change (CR-366) PR 4286 Task 3510	B	IRWD	\$2,316.03						0				
46.12	MCC-4100/4101 Cake Transfer Pump Breakers Change (CR-370) PR 4286 Task 3510	B	IRWD	\$23,720.61						0				
46.13	MCC-4102 Breaker Change (CR-374) PR 4286 Task 3510	B	IRWD	\$2,316.03						0				
46.14	SCADA Programming Modifications During Benchtest No 1 for Areas 1900 and 2000 (CR-376) PR 4286 Task 3510	A	IRWD	\$24,092.32						0				
46.15	Additional Light Fixture Above Door in Digester Control Building Gas Room (CR-399) PR 4286 Task 3510	A	IRWD	\$1,478.19						0				
46.16	Change in Size of Disconnect Switches for Digested Sludge Mixers (CR-408) PR 4286 Task 3510	B	FBB	\$1,290.10						0				
46.17	Additional Thickening Feed Grinder Control Panel Circuits (CR-438) PR 4286 Task 3510	B	IRWD	\$1,286.63						0				
46.18	Thickness and Glazing Change for Windows (CR-438) PR 4286 Task 3510	C	IRWD	\$1,297.80						0				

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47	Approved by General Manager Approved on February 28, 2017				\$96,414.36	\$14,606,147.59	\$14,702,561.95	8.99%	\$178,168,501.95	0	368	368	1,646	10/31/2017
47.1	Relocation of Neutralization Tank Drainage Piping PR 4286 Task 3520	B	FBB	\$2,312.08						0				
47.2	Modifications to Digester Control Building Door and Piping Due to Heating Water Expansion Tank Pad Adjustment (CR-221) PR 4286 Task 3505	C	FBB	\$5,500.74						0				
47.3	PLC-3100 Changes (CR-284) PR 4286 Task 3510	C	FBB	\$1,070.38						0				
47.4	Additional Angle Support to Acid Phase Digester Bridges (CR-298) PR 4286 Task 3505	C	FBB	\$4,986.21						0				
47.5	Additional Potable Water Gate Valves (CR-332) PR 4286 Task 3520	A	IRWD	\$3,892.44						0				
47.6	T-4 Kirk Key Interlock Installation (CR-335) PR 4286 Task 3510	B	IRWD	\$6,924.69						0				
47.7	Solids Handling Building Dumpster Room Channel Frames Modifications (CR-338) PR 4286 Task 3505	C	FBB	\$5,093.87						0				
47.8	PCS Server Configuration Clarification (CR-352) PR 4286 Task 3510	A	IRWD	\$6,824.35						0				
47.9	Additional Anchorage Support for Ledgers of the Digester Control Building Roof (CR-361) PR 4286 Task 3505	C	FBB	\$13,794.95						0				
47.10	Change of MCC-4103 Hot Water Circulation Pump Breakers (CR-366B) PR 4286 Task 3510	A	IRWD	\$1,336.13						0				
47.11	Centrate Treatment Facility Pull Boxes Duct Bank Settlement (CR-383) PR 4286 Task 3510	B	FBB	\$3,300.13						0				
47.12	Modifications to the MCC-4100/4101/4102/4103 (CR-405) PR 4286 Task 3510	B	FBB	\$7,418.52						0				
47.13	Cake Storage Hopper Modifications (CR-421) PR 4286 Task 3510	C	FBB	\$2,250.67						0				
47.14	Removing Installed Lighting in the Solids Handling Building (CR-427) PR 4286 Task 3510	A	IRWD	\$8,947.37						0				
47.15	Electrical Changes for Generator MPC (CR-430) PR 4286 Task 3510	A	IRWD	\$10,950.14						0				
47.16	Electrical Modifications to MCC-4100 and 4103 (CR-431) PR 4286 Task 3510	A	FBB	\$4,500.00						0				
47.17	Occupancy Sensors in the Solids Handling Building Shower Areas (CR-444) PR 4286 Task 3510	C	FBB	\$1,601.36						0				
47.18	Digester Gas Pre-Treatment In-Slab Conduit Size Change (CR-454) PR 4286 Task 3510	C	FBB	\$5,710.33						0				

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48	Approved by Board of Directors Approved on March 13, 2017				\$728,237.74	\$14,702,561.95	\$15,430,799.69	9.44%	\$178,896,739.69	0	368	368	1,646	10/31/2017
48.1	Structural Modifications of the Elevator Shafts (CR-037) PR 4286 Task 3505	B	FBB	\$58,705.90						0				
48.2	SCADA Programming Update of Polymer Feed and Storage System (CR-148A) PR 4286 Task 3510	A	FBB	\$23,685.14						0				
48.3	Stairs and Platform at SHB Load-Out Area (CR-149) PR 4286 Task 3505	C	FBB	\$39,622.65						0				
48.4	Additional Polymer Dilution Flow Meters and Associated Conduits and Cables (CR-159B) PR 4286 Task 3510	A	IRWD	\$38,978.70						0				
48.5	Miscellaneous Andritz Items (CR-205) PR 4286 Task 3520	A	IRWD	\$41,246.71						0				
48.6	RIO-4001 Changes (CR-286) PR 4286 Task 3510	A	IRWD	\$27,889.74						0				
48.7	RIO-3102 Changes (CR-310) PR 4286 Task 3510	A	IRWD	\$18,280.62						0				
48.8	Mini Power Center - Additional Outlet and Data Locations in the SHB (CR-419) PR 4286 Task 3510	A	IRWD	\$13,261.60						0				
48.9	New Lighting in the SHB First Floor Area (CR-427A) PR 4286 Task 3510	A	IRWD	\$102,503.46						0				
48.10	Additional Conduits and Cables for Thermocouples for Several Pumps (CR-424, CR-424A through CR-424F) PR 4286 Task 3510	B	FBB	\$54,982.68						0				
48.11	Additional Wall Panel Framework at the SHB (CR-445) PR 4286 Task 3505	C	FBB	\$128,000.00						0				
48.12	Changes in Uninterruptible Power Supply Units (CR-162/CR-162A) PR 4286 Task 3510	A	IRWD	\$128,052.94						0				
48.13	Addition of Circuit Breaker at Transformer T-14 (CR-474) PR 4286 Task 3510	A	IRWD	\$53,027.60						0				
49	Approved by Board of Directors Approved on March 13, 2017				(\$47,099.20)	\$15,430,799.69	\$15,383,700.49	9.41%	\$178,849,640.49	0	368	368	1,646	10/31/2017
49.1	Related Mechanical Piping Modifications Due to Change in Chemical Pumps in CCO No. 42 (CR-054A) PR 4286 Task 3520	E	FBB	(\$23,897.73)						0				
49.2	Changing the Solids Handling Building Roofing from EPDM to PVC (CR-255) PR 4286 Task 3505	E	FBB	(\$9,000.00)						0				
49.3	Net Reduction of Scope of Work in CR-353 - SCADA Valve Matrix Tables Animation Clarifications (CR-353B/353C) PR 4286 Task 3510	A	IRWD	(\$4,429.09)						0				
49.4	Change in Starters for MCC-4100/4101 Cake Transfer Pump Breakers (CR-370A) PR 4286 Task 3510	A	IRWD	(\$4,047.43)						0				
49.5	Deletion of Insulation for the Solids Handling Building Foundation (CR-393) PR 4286 Task 3505	A	IRWD	(\$5,724.95)						0				
50	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				\$72,150.89	\$15,383,700.49	\$15,455,851.38	9.46%	\$178,921,791.38	0	368	368	1,646	10/31/2017
50.1	Electrical Modifications to FOG Local Control Panel 70-LCP-0710 (CR-304) PR 4286 Task 530	A	IRWD	\$6,614.77						0				
50.2	Condensate Modifications at Digester Gas Pre-Treatment Area (CR-312) PR 4286 Task 531	C	FBB	\$9,826.09						0				
50.3	Installation of Lindapters Instead of Eye Bolts (CR-413) PR 4286 Task 529	A	FBB	\$13,346.01						0				
50.4	T-5 Connection to Biosolids Switch-14 (CR-480) PR 4286 Task 530	A	IRWD	\$35,170.26						0				
50.5	Polymer Feeder Blender Skids Flow Element Grounding Conductor (CR-482) PR 4286 Task 530	C	IRWD	\$7,193.76						0				
51	Approved by Executive Director of Engineering & Water Quality Approved on March 31, 2017				\$47,973.97	\$15,455,851.38	\$15,331,881.38	9.38%	\$178,797,821.38	0	368	368	1,646	10/31/2017

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**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C.O. days	Revised Total Contract Days	Revised Completion Date
51.1	Credit for Overtime Inspection Hours From 1/1/2016 to Through 12/31/2016 (CR-089C) PR 4286 Task 4.0	E	IRWD	(\$95,150.00)						0				
51.2	Credit for Overtime Inspection Hours From 1/1/2017 to Through 03/31/2017 (CR-089D) PR 4286 Task 4.0	E	IRWD	(\$28,820.00)						0				
52	Approved by General Manager Approved on April 28, 2017				\$98,342.16	\$15,331,881.38	\$15,430,223.54	9.44%	\$178,896,163.54	0	368	368	1,646	10/31/2017
52.1	Removal of Unsuitable Alluvium (CR-146H) PR 4286 Task 5.29	B	FBB	\$3,564.32						0				
52.2	Polymer Dilution Water Flowmeters (CR-159A) PR 4286 Task 5.31	A	IRWD	\$14,090.39						0				
52.3	Aluminum Handrail and Guardrail Modifications at Liquid Chemical and Polymer Areas (CR-171) PR 4286 Task 5.30	A	IRWD	\$13,765.20						0				
52.4	Modifications Due to Solids Handling Building Electrical Room Equipment Clearance Issues (CR-196) PR 4286 Task 5.30	C	FBB	\$9,382.01						0				
52.5	Data and Telephone Outlets in Solids Handling Building (CR-261) PR 4286 Task 5.30	A	IRWD	\$27,620.21						0				
52.6	HVAC Duct Modifications in Dewatering Feed Pump Station (CR-268) PR 4286 Task 5.31	C	FBB	\$16,023.50						0				
52.7	Coating of 8 Roll-up doors (CR-358) PR 4286 Task 5.29	A	IRWD	\$5,710.32						0				
52.8	Upsizing Wire Size of Dewatering Feed Pump Station Main Breaker Light Panel LP-3501 (CR-390) PR 4286 Task 5.30	A	IRWD	\$1,449.75						0				
52.9	Modifications to the Roofs of the Solids Handling Building and Digester Control Building (CR-528) PR 4286 Task 5.29	A	IRWD	\$6,736.46						0				
53	Exe Director of Water Quality and Engineering Approved on June 5, 2017				\$42,281.96	\$15,430,223.54	\$15,472,505.50	9.47%	\$178,938,445.50	0	368	368	1,646	10/31/2017
53.1	Modifications to Regenerative Thermal Oxidizer (RTO) Drainage and Utility Water Piping (CR-267) PR 4286 Task 5.31	C	IRWD	\$33,814.80						0				
53.2	Modifications to Liquid Chemical Feed Control Panel Wiring (CR-396) per RFI-1602 PR 4286 Task 5.30	C	FBB	\$8,467.16						0				
54	Approved by General Manager Approved on June 19, 2017				\$44,210.51	\$15,472,505.50	\$15,516,716.01	9.49%	\$178,982,656.01	0	368	368	1,646	10/31/2017
54.1	Modifications to Thickening and Dewatering Platforms (CR-195) PR 4286 Task 5.29	C	FBB	\$44,210.51						0				
55	Approved by General Manager Approved on July 3, 2017				\$94,352.43	\$15,516,716.01	\$15,611,068.44	9.55%	\$179,077,008.44	0	368	368	1,646	10/31/2017
55.1	Additional Pipe Supports of 54-Inch Fiberglass Reinforced Air Duct (CR-106A) PR 4286 Task 5.29	C	FBB	\$14,211.18						0				
55.2	Natural Gas Step Down Manifolds and Gas Transition Piping (CR-146G) PR 4286 Task 5.29	B	IRWD	\$20,489.32						0				
55.3	Modifications to the West End Stair Landing of the Solids Handling Building (CR-315) PR 4286 Task 5.29	B	IRWD	\$5,622.11						0				
55.4	Regenerative Thermal Oxidizer (RTO) Pad Modifications (CR-400) PR 4286 Task 5.29	C	FBB	\$8,471.16						0				
55.5	Addition of Thin Client at the Dryer Facility (CR-485) PR 4286 Task 5.30	A	IRWD	\$36,874.10						0				
55.6	Change in Size to 2 Check Valves in the Digester Control Building (CR-514) PR 4286 Task 5.31	C	FBB	\$8,684.56						0				
56	Pending Approval by Board Pending Approval on July 24, 2017				\$201,744.33	\$15,611,068.44	\$15,812,812.77	9.67%	\$179,278,752.77	0	368	368	1,646	10/31/2017
56.1	Addition Of Stairs and Platform to RTO (CR-266) PR 4286 Task 5.29	A	IRWD	\$101,744.33						0				
56.2	Microturbine CLC (ESC Capstone) per RFI 1141 (CR-277) PR 4286 Task 5.30	B	FBB	\$100,000.00						0				

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**MWRP Biosolids and Energy Recovery Facilities
PR 21146 (4286)
Construction Change Order Summary**

Contractor: Filanc/Balfour-Beatty
Design Engine Black & Veatch

				Contract Amount						Contract Days				Original Completion Date:
				Original Contract Amount: \$163,465,940.00						Original Days: 1,278				10/28/2016
Change Order	Description	Category	IRWD or FBB	Change Order Line Item Amount	Change Order Amount	Previous Change Orders	Cumulative Total of Change Orders	% of Original Contract Amount	Revised Contract Amount	Change Order Days	Previous Change Orders	Cum Total C.O. days	Revised Total Contract Days	Revised Completion Date

Category	Total Amount	% of Original Contract
A - District Convenience/Initiation - Project Related	\$ 1,942,916.45	1.19%
B - Differing Site Conditions	\$ 11,699,554.55	7.16%
C - Design Oversight	\$ 2,276,905.01	1.39%
D - District Convenience/Initiation - Non-Project Related	\$ -	0.00%
E - Contractor Convenience/Initiation	\$ (106,563.24)	-0.07%
TOTAL (A + B + C + D)	\$ 15,812,812.77	9.67%

Category	Total Amount	% of Original Contract
IRWD-Initiation/Driven	\$ 2,727,136.15	1.67%
FBB-Initiation/Driven	\$ 12,914,956.40	7.90%
Not applicable	\$ 170,720.22	0.10%
TOTAL	\$ 15,812,812.77	9.67%

July 24, 2017

Prepared by: Christopher Smithson

Submitted by: Cheryl Clary

Approved by: Paul A. Cook



ACTION CALENDAR

SETTING CONNECTION FEES AND PROPERTY TAXES FOR FISCAL YEAR 2017-18

SUMMARY:

Connection fees for the City of Irvine / Great Park Recycled Water (Improvement District (ID) 112/212) and ID 256 Orange Park Acres were approved at the June 12, 2017 Board meeting; all other connection fees were last updated in July 2016. The proposed changes are consistent with the Engineering News Record (ENR) construction cost index and are based on periodic updates to the capital budget and other changing assumptions.

The proposed connection fees assume an increase within each of the IDs based on the ENR estimated capital cost increase of 2.7% and are included in the Proposed Connection Fees and Property Tax Rates Summary included as Exhibit "A". Staff recommends that the Board:

- Adopt a resolution amending the Rates and Charges, included as Exhibit "B", with revised Rates and Charges for connection fees effective September 1, 2017, included as Exhibit "E";
- Adopt a resolution amending the Ad Valorem Property Tax Rates, included as Exhibit "C"; and
- Adopt a resolution amending Allocation of Ad Valorem Property Taxes to Debt Service providing for the annual allocation of 1% tax revenue, included as Exhibit "D".

BACKGROUND:

The IRWD Long Term Capital Funding Plan (LTFP), completed in November 2013, established connection fees and formed new IDs for funding capital requirements and setting tax rates. A fundamental concept in the District's LTFP is that the cost of new capital facilities are shared equally between the connection fees paid by the developer and property taxes paid by property owners. Staff utilizes a comprehensive financial model to incorporate regional capital costs, future development, growth rates, inflation, and other variables to determine connection fees. Connection fee increases were modeled for both residential and commercial development along with a consolidated tax rate. Staff updated the District's financial model for FY 2017-18 connection fees and tax rate setting to include:

- Updated capital improvement program;
- Updated ENR estimated capital cost increase of 2.7%;
- Fund balance adjustments after the LTFP was implemented in Oracle in February 2017;
- Updated assessed valuations; and
- Updated development units.

IDs 112/212:

There are three separate developments contributing to IDs 112/212: the City of Irvine (City) / Great Park development, the Great Park Neighborhoods development, and the 100-acre parcel owned by the County of Orange; connection fees for these developments will be set separately.

City of Irvine / Great Park

The recycled water connection fee of \$28.85 million for the Great Park was approved at the June 12, 2017 Board meeting. The City has indicated that it may request IRWD to provide some financing but has yet to make a formal request.

FivePoint Communities – Great Park Neighborhoods

The Great Park Neighborhoods is the FivePoint Communities development within ID 112/212. Staff recommends a 2.7% increase in the current connection fees, consistent with ENR. The consolidated water and sewer connection fee increases by \$135, from \$5,003 to \$5,138 per unit. Staff recommends maintaining the current consolidated tax rate of \$0.0750 per \$100 of land assessed value in order to maintain the 50/50 split.

County of Orange 100-acre Parcel

Staff recommends applying the same 2.7% increase to the connection fee for the 100-acre development site owned by the County of Orange with no tax base. The consolidated water and sewer connection fee increases by \$249, from \$9,206 to \$9,455 per unit. The property tax rate will remain at zero because as long as this property is owned by the County, there is no tax base.

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
112/212 (Great Park Neighborhood)	\$5,003	\$5,138	\$0.0750	\$0.0750
112a/212a (County 100-acre Parcel)	\$9,206	\$9,455	\$0.0000	\$0.0000

IDs 113/213 – Tustin Base:

Staff recommends increasing connection fees by 2.7%, consistent with ENR. This will increase the water and sewer connection fee \$214, from \$7,921 to \$8,135 per unit. Staff recommends maintaining the current consolidated tax rate of \$0.09900 per \$100 of land assessed value in order to maintain the 50/50 split.

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
113/213	\$7,921	\$8,135	\$0.0990	\$0.0990

IDs 153/253 – Developing IDs:

There has been significant change in development projections in this area. The East Orange development has been reduced with the land being donated as open space. Capital demands and development projections have been updated. The Irvine Lake Management Plan is complete and the staff recommendation is to continue with the assumed native water yield of 3,200 acre feet. Staff continues to work with the Irvine Company on the forward assumptions for the native water yield. Based on the capital adjustments and the assumed native water yield, staff recommends increasing the consolidated water and sewer connection fee \$113, from \$4,188 to \$4,301 per unit. Bonds were issued for these IDs in 2016 and establishing a property tax rate of \$0.04100 per \$100 of land assessed value will provide sufficient revenue to meet annual debt service.

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
153/253 (Undeveloped ID)	\$4,188	\$4,301	\$0.0000	\$0.0410

IDs 185/285 – Opportunity Study Area, Excluding Portola:

In March 2014, General Obligation (GO) bonding authority was voted in for these IDs which provides for a sharing of the capital costs between connection fees and property taxes and bonds were issued in 2016. Staff recommends increasing connection fees by 2.7%, consistent with ENR. This will increase the water and sewer connection fee \$124, from \$4,601 to \$4,726 per unit. Staff recommends establishing a property tax rate of \$0.05350 per \$100 of land assessed value.

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
185/285 (Opportunity Study)	\$4,601	\$4,726	\$0.0000	\$0.0535

IDs 188/288 – Portola – Portion of Opportunity Study Area:

Staff recommends a 2.7% increase in the current connection fees, consistent with ENR. The consolidated water and sewer connection fee will increase by \$109, increasing the water and sewer connection fee from \$4,035 to \$4,144 per residential unit; and reducing the current consolidated tax rate of \$0.22540 to \$0.0835 per \$100 of land assessed value. The reduction will provide sufficient revenue to meet annual debt service. The tax rate decrease is driven primarily from a significant increase in the assessed value (1,000%).

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
188/288 (Opportunity Study)	\$4,035	\$4,144	\$0.2254	\$0.0835

ID 256 – Orange Park Acres (OPA) Sewer:

The revised fee below was approved by the Board at its June 12, 2017 Board meeting.

Improvement Districts	Connection Fees		Property Tax	
	Previous	Approved 6/12/2017	Previous	Approved 6/12/2017
156/256 (Undeveloped ID)	\$25,839	\$5,900	\$0.0000	\$0.0000

All Other IDs:

These areas experienced no significant changes in funding requirements. The recommendation for these ID's is a 2.70% increase (ENR) to connection fees applied to the capital program, attributable to construction cost increases due to capital inflation. The change results in:

Improvement Districts	Connection Fees		Property Tax	
	Current	Proposed	Current	Proposed
125/225(Developed)	\$5,484	\$5,633	\$0.028	\$0.028
125/240	\$6,258	\$6,427	\$0.028	\$0.028
111/222(Developed, no GO Authority) ¹	\$9,100	\$9,346	NA	NA
153/253 PA 30	\$7,395	\$7,595	\$0.000	\$0.410

FISCAL IMPACTS:

Total Connection Fees discussed above are included in the FY 2017-18 Non-Operating budget.

ENVIRONMENTAL COMPLIANCE:

Not Applicable

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTIONS BY TITLE EFFECTIVE SEPTEMBER 1, 2017:

RESOLUTION NO. 2017-

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA ADOPTING CHANGES TO CONNECTION FEES AS SET FORTH IN THE SCHEDULE OF RATES AND CHARGES IN EXHIBIT "B" TO THE RULES AND REGULATIONS OF IRVINE RANCH WATER DISTRICT FOR WATER, SEWER, RECYCLED WATER, AND NATURAL TREATMENT SYSTEM SERVICE

¹ Identifies the consolidated connection fee for a density between 5.9 to 10.8 dwelling units (DU) per acre.

AND ADOPT THE FOLLOWING RESOLUTIONS BY TITLE:

RESOLUTION NO. 2017-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA
ESTABLISHING AD VALOREM TAX REVENUES FOR
FISCAL YEAR 2017-18

RESOLUTION NO. 2017 –

RESOLUTION OF THE BOARD OF DIRECTORS OF
THE IRVINE RANCH WATER DISTRICT AMENDING
ALLOCATION OF *AD VALOREM* PROPERTY
TAXES TO DEBT SERVICE, SUBJECT TO PLEDGE

LIST OF EXHIBITS:

- Exhibit “A” – Proposed Connection Fees and Property Tax Rates by ID
- Exhibit “B” – Resolution Adopting Changes to Rates and Charges
- Exhibit “C” – Resolution Adopting Ad Valorem Property Tax Rates
- Exhibit “D” – Resolution Amending Allocation of Ad Valorem Property Taxes to Debt Service
- Exhibit “E” – Rates and Charges

EXHIBIT "A"

**Proposed Connection Fees and Property Tax Rates
Fiscal Year 2017-18**

CONNECTION FEES

Improvement District	Current			Proposed			Change	
	Water	Sewer	Total	Water	Sewer	Total	\$	%
	111/222	\$3,260	\$5,840	\$9,100	\$3,348	\$5,998	\$9,346	\$246
112/212	\$1,386	\$3,617	\$5,003	\$1,423	\$3,715	\$5,138	\$135	2.7%
112a/212a No Tax Authority (100% Connection Fee)	\$2,550	\$6,656	\$9,206	\$2,619	\$6,836	\$9,455	\$249	2.7%
113/213	\$2,881	\$5,040	\$7,921	\$2,959	\$5,176	\$8,135	\$214	2.7%
125/240	\$2,637	\$3,621	\$6,258	\$2,708	\$3,719	\$6,427	\$169	2.7%
125/225	\$2,637	\$2,847	\$5,484	\$2,708	\$2,924	\$5,633	\$148	2.7%
153/253	\$1,937	\$2,251	\$4,188	\$1,989	\$2,312	\$4,301	\$113	2.7%
153/253 PA 30	\$3,619	\$3,776	\$7,395	\$3,716	\$3,878	\$7,595	\$200	2.7%
256 OPA		\$25,839	\$25,839		\$5,900	\$5,900	(\$19,939)	-77.2%
185/285	\$1,652	\$2,949	\$4,601	\$1,697	\$3,029	\$4,726	\$124	2.7%
188/288	\$1,486	\$2,548	\$4,035	\$1,527	\$2,617	\$4,144	\$109	2.7%

PROPERTY TAX RATES ⁽¹⁾

Improvement District	Current			Proposed		
	Water	Sewer	Total	Water	Sewer	Total
112/212	\$0.03000	\$0.04500	\$0.07500	\$0.03000	\$0.04500	\$0.07500
113/213	\$0.04000	\$0.05900	\$0.09900	\$0.04000	\$0.05900	\$0.09900
125/225/240	\$0.01300	\$0.01500	\$0.02800	\$0.01300	\$0.01500	\$0.02800
153/253 ⁽²⁾	\$0.00000	\$0.00000	\$0.00000	\$0.02000	\$0.02100	\$0.04100
185/285 ⁽²⁾	\$0.00000	\$0.00000	\$0.00000	\$0.02300	\$0.03050	\$0.05350
188/288	\$0.21540	\$0.01000	\$0.22540	\$0.07350	\$0.01000	\$0.08350
252	\$0.00000	\$0.00001	\$0.00001	\$0.00000	\$0.00001	\$0.00001

(1) Based on \$100 of land assessed value.

(2) Establish tax rate for debt issued in FY 2016-17.

EXHIBIT "B"

RESOLUTION NO. 2017-

RESOLUTION OF THE BOARD OF DIRECTORS OF IRVINE
RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA
ADOPTING CHANGES TO CONNECTION FEES AS SET FORTH IN
THE SCHEDULE OF RATES AND CHARGES IN EXHIBIT "B" TO THE
RULES AND REGULATIONS OF IRVINE RANCH WATER DISTRICT
FOR WATER, SEWER, RECYCLED WATER, AND NATURAL
TREATMENT SYSTEM SERVICE
(EFFECTIVE SEPTEMBER 1, 2017)

WHEREAS, the Irvine Ranch Water District (IRWD) is a California Water District organized and existing under the California Water District Law, and all of the lands within the boundaries of said District are located in the County of Orange, State of California; and

WHEREAS, Section 35423, 35470, and Section 35501 of the California Water Code empower the District to establish, print and distribute equitable rules and regulations and prescribe and collect rates or other charges for water and sewer service, and such authority to prescribe and collect rates or other charges for water and sewer service includes connection fees for connection and service capacity; and

WHEREAS, the Board of Directors of IRWD, by adoption of Resolution No. 2015-23 approved and adopted amended "Rules and Regulations of Irvine Ranch Water District for Water, Sewer, Recycled Water, and Natural Treatment System Service effective August 24, 2015; and

WHEREAS, Exhibit "B" of said Rules and Regulations sets forth Rates and Charges, which Exhibit "B" may be changed from time to time by adoption of changes to any of the rates and charges or any new rates and charges as may be established and set forth therein; and

WHEREAS, Section 21080(b) (8) of the Public Resources Code provides that the establishment, modification, structuring, restructuring or approval of rates, tolls, fares, or other charges by public agencies are exempt from the requirements of the California Environmental Quality Act (CEQA) provided that certain findings are made specifying the basis for the claim of exemption; and

WHEREAS, Article XIII B of the Constitution of the State of California, limiting local agencies' appropriations of proceeds of taxes, excludes user charges or fees or regulatory fees from the definition of proceeds of taxes, as long as such fees and charges do not produce revenue exceeding the costs reasonably borne in providing the regulation, product or service, and further excludes appropriations for debt service and appropriations for qualified capital outlay projects from appropriations subject to limitation; and

WHEREAS, the Board of Directors of IRWD deems it advisable and finds that it would be in the best interest of the District to amend or establish connection fees, consistent with applicable constitutional and statutory requirements; and

WHEREAS, the proposed revisions to the connection fees, as set forth in Exhibit “A” to this resolution, do not modify or establish any property-related fees or charges subject to the notice and hearing procedures of Article XIII D of the Constitution of the State of California; and

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of IRWD as follows:

Section 1. It is hereby found and determined that the proposed changes to the Schedule of Rates and Charges are within the purposes set forth in Section 21080(b) of the Public Resources Code including but not by way of limitation, the purposes of (1) meeting operating expenses, (2) purchasing or leasing supplies, equipment or materials, (3) meeting financial reserve needs and requirements, and (4) obtaining funds for capital projects necessary to maintain service within existing areas, and therefore, that such changes are exempt from CEQA.

Section 2. It is hereby found and determined that relative to Article XIII B of the Constitution of the State of California, the charges or fees or regulatory fees established or increased hereby do not produce revenues exceeding the costs reasonably borne in providing the regulation, product or service and/or are used for debt service or qualified capital outlay projects and accordingly do not constitute proceeds of taxes, the appropriation of which is limited under Article XIII B, and that the documentation used in making such determinations has been on file in the office of IRWD for not less than 15 days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California. It is hereby further found and determined that relative to the requirements of Sections 66013 and 66016 of the Government Code of the State of California, the availability of such documentation also satisfies the requirement to make publicly available the data indicating the estimated cost and revenue sources to provide the service for which the fee is imposed at least 10 days prior to the meeting at which this resolution is adopted, and that the connection fees established or increased hereby do not exceed the estimated reasonable cost of providing the service for which they are imposed.

Section 3. The new and/or revised connection fees as set forth in Exhibit “A” attached to this resolution and by this reference incorporated herein are hereby adopted, and the corresponding rate(s), fee(s) or charge(s), if any, as set forth in Rules and Regulations Exhibit “B” currently in effect, are hereby superseded. Staff is directed to incorporate the hereby adopted new and/or revised connection fee(s) into Exhibit “B” to the Rules and Regulations.

Section 4. That the provisions of this Resolution shall be effective September 1, 2017.

Section 5. That the Secretary is hereby ordered and directed to post a certified copy of this Resolution in a public place within the Irvine Ranch Water District.

ADOPTED, SIGNED and APPROVED this 24th day of July, 2017.

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

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

APPROVED AS TO FORM:
NOSSAMAN LLP
Legal Counsel - IRWD

By: _____

Exhibit "C"

RESOLUTION NO. 2017-

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT, ORANGE COUNTY, CALIFORNIA
ESTABLISHING AD VALOREM TAX REVENUES FOR
FISCAL YEAR 2017-18

WHEREAS, the Board of Directors of the Irvine Ranch Water District (IRWD) has duly considered the financial needs of the IRWD and its Improvement District Nos. 112, 113, 125, 153, 185, 188, 212, 213, 225, 240, 253, 285, and 288, for the fiscal year 2017-18 and the funds available and established to become available for meeting said financial needs; and

WHEREAS, pursuant to Section 37206 of the Water Code of the State of California, the Board of Directors annually shall furnish to the Board of Supervisors of Orange County and to the County Auditor, an estimate in writing of the amount of money needed to be raised by the District during the fiscal year for the payment of its proportion of the amount required for the purposes of the District; and

WHEREAS, Article XIII B of the Constitution of the State of California provides that the appropriations of local agencies will be limited each year to those of the previous year with specified adjustments permitted; and

WHEREAS, Section 9(a) of Article XIII B specifically excludes appropriations required to pay the cost of interest and redemption charges, including the funding of any reserve or sinking fund required in connection therewith, on indebtedness existing or legally authorized as of January 1, 1979, or on bonded indebtedness thereafter approved according to law by a vote of electors; and

WHEREAS, the ad valorem tax revenues established by IRWD are used entirely for debt service and are therefore exempt from the appropriations formula established by Article XIII B.

WHEREAS, the ad valorem tax revenues received by IRWD pursuant to this Resolution will provide a portion of the funds needed to pay principal and interest with respect to the General Obligation Bonds referenced below, and this Board wishes to specify the sources of the remainder of the amounts needed therefor in the current year.

NOW, THEREFORE, the Board of Directors of IRWD does hereby RESOLVE, DETERMINE, AND ORDER as follows:

Section 1. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 153 of IRWD for fiscal year 2017-18 is .02000 percent (.0002000) of full value.

Section 2. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 253 of IRWD for fiscal year 2017-18 is .02100 percent (.0002100) of full value.

Section 3. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 225 of IRWD for fiscal year 2017-18 is .01500 percent (.0001500) of full value.

Section 4. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 240 of IRWD for fiscal year 2017-18 is .01500 percent (.0001500) of full value.

Section 5. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 125 of IRWD for fiscal year 2017-18 is .01300 percent (.0001300) of full value.

Section 6. That the tax to be levied for servicing Improvement District No. 252's just proportion of liability determined pursuant to Resolution No. 2005-41, for the General Obligation Bonds of Improvement District No. 225 of IRWD for fiscal year 2017-18 is .00001 percent (.0000001) of full value.

Section 7. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 188 of IRWD for fiscal year 2017-18 is .07350 percent (.0007350) of full value.

Section 8. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 288 of IRWD for fiscal year 2017-18 is .01000 percent (.0001000) of full value.

Section 9. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 113 of IRWD for fiscal year 2017-18 is .04000 percent (.0004000) of full value.

Section 10. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 213 of IRWD for fiscal year 2017-18 is .05900 percent (.000590) of full value.

Section 11. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 112 of IRWD for fiscal year 2017-18 is .03000 percent (.00030000) of full value.

Section 12. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 212 of IRWD for fiscal year 2017-18 is .04500 percent (.0004500) of full value.

Section 13. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 185 of IRWD for fiscal year 2017-18 is .02300 percent (.0002300) of full value.

Section 14. That the tax to be levied for servicing the General Obligation Bonds of Improvement District No. 285 of IRWD for fiscal year 2017-18 is .03050 percent (.0003050) of full value.

Section 15. The taxes levied pursuant to Sections 1 and 2 of this Resolution are for bonds approved before January 1, 1989. The taxes levied pursuant to Sections 7 through 14 are for bonds approved after January 1, 1989. The taxes levied pursuant to Sections 3 through 6 are for bonds approved before January 1, 1989 and bonds approved after January 1, 1989.

Section 16. That the Secretary and Treasurer of the District are hereby directed to furnish a certified copy of this resolution to the Auditor of the County of Orange.

Section 17. That the ad valorem tax revenues established by IRWD hereby for the fiscal year 2017-18 are in compliance with the provisions of Article XIII B of the constitution of the State of California.

Section 18. That principal and interest with respect to the General Obligation Bonds of IRWD shall be paid from (1) the ad valorem assessments received by IRWD pursuant to this Resolution; (2) any amounts held in bona fide debt service funds; (3) other monies, if any, required to be applied to the payment of debt service by the applicable indenture or resolution of issuance; (4) tax revenues applied pursuant to Resolution No. 2002-10 and to certain parity obligations as described in the Indenture of Trust, dated April 1, 2011, as amended and supplemented, relating to the Bonds of Irvine Ranch Water District, Refunding Series 2011A-1 (pledge of the 1% levy), as such application may be modified by resolution amending the allocation of tax revenues; and (5) to the extent additional amounts are necessary for such purpose, revenues which are received by IRWD within twelve months of being applied to the payment of debt service and which are legally available therefor, including income from the investment of such revenues where both the investment income and the revenues on which it is earned are received by IRWD within twelve months of being applied to the payment of debt service.

ADOPTED, SIGNED and APPROVED this 24th day of July, 2017.

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

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

APPROVED AS TO FORM:
NOSSAMAN LLP
Legal Counsel - IRWD

Legal Counsel

Exhibit "D"

RESOLUTION NO. 2017 –

RESOLUTION OF THE BOARD OF DIRECTORS OF THE IRVINE RANCH WATER DISTRICT AMENDING ALLOCATION OF *AD VALOREM* PROPERTY TAXES TO DEBT SERVICE, SUBJECT TO PLEDGE

WHEREAS, the Board of Directors of the Irvine Ranch Water District ("IRWD") has adopted Resolution Nos. 1992-48 and 2002-10, relating to IRWD's appropriation and pledge of revenues from the general 1% *ad valorem* property tax; and

WHEREAS, such resolutions authorized and directed the Treasurer to annually allocate the general 1% *ad valorem* property tax revenues received by IRWD among the debt service requirements of the issues of bonds specified in said resolution ("Secured Bonds") in accordance with a formula set forth therein, with the 2002 pledge formula to be applied in lieu of the 1992 pledge formula to the extent provided in Resolution No. 2002-10; and

WHEREAS, no Secured Bonds that received a pledge of general 1% *ad valorem* property tax revenues under Resolution No. 1992-48 currently remain outstanding, and;

WHEREAS, IRWD's revenues from the general 1% *ad valorem* property tax have, to the extent not applied to pay principal and interest on the Secured Bonds, been pledged by IRWD to certain parity obligations (the "Parity Obligations") identified by the Indenture of Trust, dated April 1, 2011, as amended and supplemented (the "2011 Indenture"), relating to the Bonds of Irvine Ranch Water District, Refunding Series 2011A-1; and

WHEREAS, on November 11, 2013, pursuant to Section 36454 *et seq.* of the California Water Code, the Board of Directors adopted Resolution No. 2013-43, ordering the consolidation of Improvement District Nos. 102, 105, 106, 121, 130, 135, 140, 161, 182, 184 and 186, as modified by certain annexations and detachments ordered by the Board, into a single improvement district designated "Improvement District No. 125" and the consolidation of Improvement District Nos. 2(202), 206, 221, 230, 235, 250, 261, 282, 284 and 286, as modified by certain annexations and detachments ordered by the Board, into a single improvement district designated "Improvement District No. 225"; and

WHEREAS, the consolidation is one of several actions taken by IRWD based upon its comprehensive evaluation and study of its long-term financial requirements, including: a detailed planning, engineering and financial assessment of the total costs of existing and future facilities in the water and wastewater systems; available bond authorization and other revenue sources to finance facilities to serve future development, augment system reliability and meet upgraded regulatory requirements for both existing and future demands and replace and refurbish the existing systems; debt service; simplification of the improvement district structure; and assurance of equitable and fair sharing of regional and local cost between existing and future users and among the areas that have comprised the various existing improvement districts and other geographic areas served by the system; and

WHEREAS, pursuant to Section 36454.1 of the California Water Code, the included amounts and/or included percentages of each series of the Secured Bonds or Parity Obligations that constituted the general obligation of one or more of Improvement District Nos. 105, 121, 130, 135, 140, 161, 182, 184 and 186 were assumed by and became the liability of Improvement District No. 125, and the included amounts and/or included percentages of the respective series of the Secured Bonds or Parity Obligations that constituted the general obligation of one or more of Improvement District Nos. 221, 230, 235, 250, 261, 282, 284 and 286 were assumed by and became the liability of Improvement District No. 225; and

WHEREAS, the Board deems it to be appropriate, in the interest of IRWD and consistent with the pledges contained in Resolution No. 2002-10 and the 2011 Indenture (collectively, the "Pledges"), to modify the allocation of the revenues from the general 1% *ad valorem* property tax received during the 2017-18 fiscal year (the "Fiscal Year"), subject to the availability of other revenues for debt service on Secured Bonds and Parity Obligations in such year; and

WHEREAS, the proposed modifications consist of substitution of an allocation of 1% tax revenues among debt service obligations that is different from the allocation that would be calculated under the formulas specified in the Pledges; in addition, by separate resolution adopting the capital budget, this Board has allocated a portion of the 1% tax revenues for the Fiscal Year to one or both of IRWD's Replacement Fund or Enhancement Fund; and

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

WHEREAS, Section 9 of Article XIII B excludes from the appropriations subject to limitation appropriations for debt service and appropriations for all qualified capital outlay projects; a qualified capital outlay projects is defined by statute as an appropriation for a fixed asset (including land and construction) with a useful life of 10 or more years and a value which equals or exceeds one hundred thousand dollars (\$100,000).

NOW, THEREFORE, the Board of Directors of the Irvine Ranch Water District DOES HEREBY RESOLVE, DETERMINE and ORDER as follows:

Section 1. Subject in all respects to the Pledges, the Treasurer is hereby authorized and directed to implement a modified allocation of the pledged amounts (as defined in the Pledges) of the general 1% *ad valorem* property tax revenues for the Fiscal Year in the manner set forth as follows:

- (a) the amount to be allocated to the Replacement Fund shall be as specified in the resolution adopting the capital budget for the Fiscal Year;
- (b) the amount to be allocated to the Enhancement Fund shall be as specified in the resolution adopting the capital budget for the Fiscal Year;

(c) the amount to be allocated to the sharing of regional and local cost by existing and future users of the areas known as "110" and 210" shall be as set forth in Exhibit "A," which exhibit is attached to this resolution and by this reference made a part hereof;

(d) the allocation among the Improvement Districts' debt service obligations shall be as set forth in Exhibit "A," subject to adjustments as may be necessary to reflect actual tax revenues received by IRWD;

(e) the amount allocated to each Improvement District or combination of Improvement Districts specified in Exhibit "A" shall be further allocated by the Treasurer among the various outstanding bond issues based upon their debt service requirements and/or other criteria as he deems appropriate;

(f) the amounts to be allocated pursuant to paragraphs (d) and (e) from the pledged amount of the general 1% *ad valorem* property tax revenues received by IRWD shall be held unallocated until such allocations are made, and each such amount shall be deposited into the appropriate debt service fund or account for the respective bond issue as and when determined by the Treasurer.

The applications described in this section shall be made only if and to the extent there is not a deficiency at the time of application in the amounts available to pay debt service for any Secured Bonds or Parity Obligations.

Section 2. Nothing contained in this resolution is intended to impair or modify in any way the pledge of the general 1% *ad valorem* property tax revenues as stated in the Pledges. Nothing contained in this resolution is intended to create any entitlement with respect to the use of general 1% *ad valorem* property tax revenues for any particular purpose, it being intended that such revenues are unrestricted except by such Pledges and are subject to application as determined in the discretion of the Board of Directors from time to time.

Section 3. It is hereby found and determined that relative to appropriations subject to limitation under Article XIII B of the Constitution of the State of California, the applications of revenues described in this resolution are for debt service, and accordingly do not constitute proceeds of taxes the appropriation of which is limited under Article XIII B, and that the documentation used in making such determinations has been on file in the office of IRWD for not less than 15 days prior to the date hereof, pursuant to Section 7910 of the Government Code of the State of California

Section 4. The President, Secretary, Treasurer and each other officer of IRWD, acting singly, be and hereby is authorized and directed to execute and deliver any and all documents or instruments and to do and perform any and all acts and things necessary or proper for carrying out the transactions contemplated by this resolution.

ADOPTED, SIGNED AND APPROVED this 27th day of June, 2017.

President/Vice President
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

Secretary/Assistant Secretary
IRVINE RANCH WATER DISTRICT
and of the Board of Directors thereof

APPROVED AS TO FORM:

NOSSAMAN LLP
Legal Counsel - IRWD

By _____

jca/00106535/061114

EXHIBIT A

ID or Area (Water)	2002 Pledge Formula Allocation of 1% General Tax Revenue ^a	2017-18 Allocation of 1% General Tax Revenue	ID or Area (Sewer)	2002 Pledge Formula Allocation of 1% General Tax Revenue ^a	2017-18 Allocation of 1% General Tax Revenue
			1	0	0
112	0	0	212	0	0
113	0	0	213	0	0
125 ^{b c}	17%	25%	225 ^{d e}	23%	35%
153	0	0	240	3%	2%
154	0	0	252	0	0
185	0	0	253	0	0
188	0	0	288	0	0
“110”	NA	5%	“210”	NA	5%

Fund	Allocation of 1% Revenue, Per 2017-18 Capital Budget Resolution
Replacement Fund	28%
Enhancement Fund	0

^a No Secured Bonds that received a pledge of 1% general tax levy revenues under Resolution No. 1992-48 remain outstanding. The pledge made by Resolution No. 2002-10 secured the outstanding **Consolidated Series 1993 Bonds** (consisting of the included percentages of Improvement District Nos. 105 (14.67%), 140 (15.20%), 240 (43.73%) and 250 (26.40%) and **Consolidated Series 1995 Bonds** (consisting of the included percentages of Improvement District Nos. 105 (25.26%), 140 (11.61%), 240 (25.26%) and 250 (37.87%).

^b Improvement District No. 125 assumed the liability for the included amounts and/or included percentages of debt service for each series of the Secured Bonds or Parity Obligations that constituted the general obligation of one or more of the improvement districts consolidated as Improvement District No. 125: Nos. 105, 121, 130, 135, 140, 161, 182, 184 and 186.

^c After the formation of Improvement District No. 125, with respect to the **Series 1993 Bonds**, the aggregated included percentages of Improvement District Nos. 105 and 140 (36.87%) were assumed by Improvement District No. 125, and with respect to the **Series 1995 Bonds**, the aggregated included percentages of Improvement District Nos. 105 and 140 (36.87%) were assumed by Improvement District No. 125.

^d Improvement District No. 225 assumed the liability for the included amounts and/or included percentages of debt service for each series of the Secured Bonds or Parity Obligations that constituted the general obligation of one or more of the improvement districts consolidated as Improvement District No. 125: Nos. 2(202), 206, 221, 230, 235, 250, 261, 282, 284 and 286.

^e After the formation of Improvement District No. 225, with respect to the **Series 1993 Bonds**, the included percentage of Improvement District No. 250 (26.40%) was assumed by Improvement District No. 225, and with respect to the **Series 1995 Bonds**, the included percentage of Improvement District No. 250 (37.87%) was assumed by Improvement District No. 125.

Exhibit "E"

***IRVINE RANCH WATER DISTRICT
SCHEDULE OF RATES AND CHARGES***



Irvine Ranch
WATER DISTRICT

ADOPTED/EFFECTIVE

JUNE 26, 2017/SEPTEMBER 01, 2017

Water Connection Fees

Residential

	IMPROVEMENT DISTRICT	0-5.8 DUUs/acre	5.9-10.8 DUUs/acre	10.9-25.8 DUUs/acre	25.9+ DUUs/acre
Connection Fees Per Dwelling Unit	1101*	\$3,796 \$3,696	\$3,348 \$3,260	\$2,837 \$2,762	\$2,395 \$2,332
	112	\$1,423 \$1,386	\$1,423 \$1,386	\$1,423 \$1,386	\$1,423 \$1,386
	112a (tax exempt)	\$2,619 \$2,550	\$2,619 \$2,550	\$2,619 \$2,550	\$2,619 \$2,550
	113	\$2,959 \$2,884	\$2,959 \$2,884	\$2,959 \$2,884	\$2,959 \$2,884
Development shall be gross acres excluding private parks.	125	\$2,708 \$2,637	\$2,708 \$2,637	\$2,708 \$2,637	\$2,708 \$2,637
	153	\$1,989 \$1,937	\$1,989 \$1,937	\$1,989 \$1,937	\$1,989 \$1,937
	153 PA 30	\$3,716 \$3,649	\$3,716 \$3,649	\$3,716 \$3,649	\$3,716 \$3,649
	185	\$1,697 \$1,652	\$1,697 \$1,652	\$1,697 \$1,652	\$1,697 \$1,652
	188	\$1,527 \$1,486	\$1,527 \$1,486	\$1,527 \$1,486	\$1,527 \$1,486
	*All others				

Commercial, Industrial and Public Authority – Office Building

	IMPROVEMENT DISTRICT	Commercial	Industrial	Public Authority
Connection Fees Per Gross Acre	404111*	\$21,062 \$20,509	\$32,080 \$31,237	\$21,062 \$20,509
	112	\$9,251 \$9,007	\$9,251 \$9,007	\$9,251 \$9,007
	112a (tax exempt)	\$17,022 \$16,575	\$17,022 \$16,575	\$17,022 -
	113	\$21,610 \$21,042	\$0 \$0	\$21,610 \$10,524
	125	\$13,431 \$13,078	\$19,066 \$18,565	\$13,431 \$13,078
	153	\$10,450 \$10,176	\$14,834 \$14,444	\$10,450 \$10,176
	PA 30	\$18,440 \$17,955	\$26,176 \$25,488	\$18,440 \$17,955
	185	\$7,928 \$7,720	\$7,928 \$7,720	\$7,928 \$7,720
	188	\$6,025 \$5,867	\$6,025 \$5,867	\$6,025 \$5,867
	*All others			

Parks, Churches and Commercial Recreational Facilities

	IMPROVEMENT DISTRICT	Indoor Water Use	Outdoor ⁽¹⁾ Water Use
Connection Fees Per Fixture Unit	404111*	\$65.96 \$64.23	\$232.13 \$226.03
	125	\$44.64 \$43.47	\$156.46 \$152.35
(1) Calculated per Uniform Plumbing Code	153	\$34.78 \$33.86	\$121.89 \$118.69
	PA 30	\$61.33 \$59.72	\$214.96 \$209.31
	185	\$45.62 \$44.42	\$160.18 \$155.97
	188	\$30.10 \$29.34	\$105.91 \$103.12
	*All others		

Schools (Public and Private)

	IMPROVEMENT DISTRICT	Indoor Primary &/or Intermediate	Indoor Secondary	Landscape Primary Intermediate & Secondary
Connection Fees Per 100 Students Based on Max Daily Attendance	404111*	\$5,198 \$5,064	\$6,971 \$6,788	\$223 \$217
	125	\$3,511 \$3,418	\$4,714 \$4,590	\$157 \$153
	153	\$2,735 \$2,663	\$3,672 \$3,576	\$122 \$119
	PA 30	\$4,823 \$4,696	\$6,476 \$6,306	\$216 \$210
	185	\$3,439 \$3,348	\$4,824 \$4,697	\$155 \$151
	188	\$2,753 \$2,684	\$3,684 \$3,587	\$118 \$114
	*All others			

High Volume User – Commercial and Industrial

This section shall apply to all non-residential applicants in addition to standard connection fees in all improvement districts.

Connection Fee Formula Additional High Volume Water User Connection Fee =

Est. Gallons per Day use – (no. acres x use factor*) x

\$1,18655,083270/cfs

646,320 gal/day/cfs

*Non-Residential Water Use Factor

Land Use Category

Water Use Factors

(Gal/Acre x /Day)

Commercial

2,000.00

Industrial

4,000.00

UCI

Special Contract

Definitions

Commercial: Commercial development includes but is not limited to the following uses: Hotels, retail and offices.

Industrial: Industrial development includes but is not limited to the following uses: Manufacturing, research and development, and distribution.

Methodology for Calculating Redevelopment Connection Fees

Redevelopment connection fees will be calculated using the following methodology, effective January 1, 2014:

1. Calculate water and sewer connection fee based on redevelopment plans utilizing current rates and charges;
2. Provide a credit based on the existing project (to be redeveloped) by calculating a connection fee using current rates and charges; and
3. The redevelopment connection fee calculation is the difference between the new development connection fee and the connection fee credit. No refunds will be given if the credit is greater than connection fee.

Service Installations by District

Customers may request the District to install, relocate or abandon domestic water, recycled water and fire protection service lines. To request an action listed above, the customer must submit a Quote Request Form for Service or Meter Modifications which can be obtained by contacting Development Services. District staff will prepare a cost estimate for the requestor. When payment is received, a work order will be issued to District staff to begin coordination and installation.

The District reserves the right to decline a customer's request for service installations by District for any reason. In the event the District declines to perform service installations, the requestor will need to submit design plans for review and approval through Development Services. For further information, see Development Services Procedural Guidelines and General Design Requirements document which can be found at www.irwd.com.

Meter Installations by District

Customers may request the District to install or replace (downsize or upsize) domestic water or recycled water meters. To request an action listed above, the customer must submit a Quote Request Form for Service or Meter Modifications which can be obtained by contacting the District's Development Services. District staff will prepare a cost estimate for the requestor. When payment is received, a work order will be issued to District staff to begin coordination and installation. Meter installation and replacement charges are as follows:

<u>Meter size</u>	<u>Cost*</u>	<u>Meter size</u>	<u>Cost*</u>
5/8" x 3/4" **	\$130.00**	2" Disc	\$ 750.00
3/4"	\$200.00	2" Turbo	\$1,300.00
1"	\$250.00***	3" Turbo	\$2,100.00
1-1/2"	\$450.00	4" Turbo	\$3,400.00

* Prices shown are for standard meter installations only and do not include services, angle stops, meter boxes, meter box covers, vaults or meter box lids. Additional costs may apply. The customer will be responsible for any plumbing modifications downstream of the water meter.

** Developer installed-Residential only

*** When a customer requests a meter to be upsized from 5/8" x 3/4" to 1", additional parts and labor will be required to make the conversion. The cost for District staff to perform this work is \$2,000.00 and will be collected along with the above 1" meter cost.

Costs for meters larger than 4-inches will be determined by the District's Purchasing Department at the time of request. Meters costs includes strainer.

Sewer Connection Fees

Residential

	IMPROVEMENT DISTRICT	0-5.8 DUs/acre	5.9-10.8 Dus/acre	10.9-25.8 Dus/acre	25.9+ Dus/acre
Connection Fees Per Dwelling Unit	1 (22204)*	\$6,740 \$6,663	\$5,998 \$5,840	\$4,937 \$4,807	\$3,895 \$3,793
	212	\$3,715 \$3,617	\$3,715 \$3,617	\$3,715 \$3,617	\$3,715 \$3,617
	212a (tax exempt)	\$6,836 \$6,656	\$6,836 \$6,656	\$6,836 \$6,656	\$6,836 \$6,656
	213	\$5,176 \$5,040	\$5,176 \$5,040	\$5,176 \$5,040	\$5,176 \$5,040
Total acreage for any given development shall be gross acres excluding private parks.	240	\$3,719 \$3,624	\$3,719 \$3,624	\$3,719 \$3,624	\$3,719 \$3,624
	225	\$2,924 \$2,847	\$2,924 \$2,847	\$2,924 \$2,847	\$2,924 \$2,847
	253	\$2,312 \$2,254	\$2,312 \$2,254	\$2,312 \$2,254	\$2,312 \$2,254
Parks.	253 PA 30	\$3,878 \$3,776	\$3,878 \$3,776	\$3,878 \$3,776	\$3,878 \$3,776
	256	\$5,900 \$25,839	\$5,900 \$25,839	\$5,900 \$25,839	\$5,900 \$25,839
	285	\$3,029 \$2,949	\$3,029 \$2,949	\$3,029 \$2,949	\$3,029 \$2,949
	288	\$2,617 \$2,549	\$2,617 \$2,549	\$2,617 \$2,549	\$2,617 \$2,549
	OPA1 (Ridgeline)	\$5,900 \$4,430	\$5,900 \$4,430	\$5,900 \$4,430	\$5,900 \$4,430
	*All others				

Commercial, Industrial and Public Authority – Office Building

	IMPROVEMENT DISTRICT	Commercial	Industrial	Public Authority
Connection Fees Per Gross Acre	1 (22204)*	\$37,773 \$36,780	\$65,903 \$64,170	\$37,773 \$36,780
	212	\$22,180 \$21,597	\$22,180 \$21,597	\$22,180 \$21,597
	212a (tax exempt)	\$40,814 \$39,744	\$40,814 \$39,744	\$40,814 -
	213	\$30,839 \$30,028	\$0 \$0	\$30,839 \$15,526
	240	\$16,981 \$16,534	\$0 \$0	\$16,981 \$16,534
	225	\$14,297 \$13,924	\$16,913 \$16,468	\$14,297 \$9,924
	253	\$10,608 \$10,329	\$17,603 \$17,140	\$10,608 \$10,329
	253 PA 30	\$17,293 \$16,839	\$28,695 \$27,941	\$17,293 \$16,839
	285	\$6,053 \$5,894	\$6,053 \$5,894	\$6,053 \$5,894
	288	\$10,330 \$10,059	\$10,330 \$10,059	\$10,330 \$10,059
	*All others			

Parks, Churches and Commercial Recreational Facilities

	IMPROVEMENT DISTRICT	Fee
Connection Fees Per Fixture Unit	1 (22204)*	\$417.92 \$406.93
	240	\$252.63 \$245.99
	225	\$224.08 \$218.19
	253	\$166.26 \$161.89
	253 PA 30	\$271.03 \$263.91
	288	\$68.55 \$66.74
	*All others	

Schools (Public and Private)

	IMPROVEMENT DISTRICT	Primary & Intermediate	Secondary
Connection Fees Per 100 Students Based on Max Daily Attendance	1 (201222)*	\$19,803 \$19,282	\$26,407 \$25,743
	240	\$11,940 \$11,626	\$15,923 \$15,504
	225	\$10,528 \$10,252	\$14,038 \$13,669
	253	\$7,811 \$7,606	\$10,415 \$10,141
	253 PA 30	\$12,734 \$12,399	\$16,979 \$16,532
	288	\$3,300 \$3,213	\$4,397 \$4,282
	*All others		

Sewer Lateral Installations by District

The District does not install sewer laterals.

Irvine Business Complex – Non-Residential

	-----Commercial/Industrial-----					
	(1)		(2)		(3)	
	<u>Low Demand</u>		<u>Average Demand</u>		<u>High Demand</u>	
Connection Fees Per 1,000 Square Feet	\$260	\$253	\$1,606	\$1,564	\$3,807	\$3,797

- (1) Low Demand connections are the following categories of users: Nurseries, Warehouses, Parking Structures, RV Storage, Churches, Truck Terminals, RV Parks, Lumber/Construction Yards, and other discharge whose flow is similar in volume to these listed categories.
- (2) Average Demand connections other than listed in Low or High Demand categories.
- (3) High Demand connections are the following categories of users: Restaurants, Supermarkets, Car Washes, Coin Laundries, Amusement Parks, Shopping Centers with Restaurants, Food Processing Facilities, Textile Manufacturers, and other discharges whose flow is similar in volume to these listed categories.

High Volume User – Commercial and Industrial

This section shall apply to all non-residential applicants in addition to standard connection fees in all improvement districts.

Connection Fee Formula

Additional High Volume Sewer User Connection Fee =

* Sewer GPD = 90% of water GPD [Est. GPD use * – (no. acres x use factor**)] x \$16.5217.24/Gal. of Sewer Flow

**Non-Residential Sewage Flow Generators (Use Factors)	<u>Land Use Category</u>	<u>Average Flows</u>
	Commercial	1,300.00
	Industrial	2,600.00
	UCI	Special Contract

Definitions

Commercial: Commercial development includes but is not limited to retail and offices


Industrial: Industrial development including manufacturing, research and development and distributorships

Methodology for Calculating Redevelopment Connection Fees


Redevelopment connection fees will be calculated using the following methodology, effective January 1, 2014:

1. Calculate water and sewer connection fee based on redevelopment plans utilizing current rates and charges;
2. Provide a credit based on the existing project (to be redeveloped) by calculating a connection fee using current rates and charges; and
3. The redevelopment connection fee calculation is the difference between the new development connection fee and the connection fee credit. No refunds will be given if the credit is greater than connection fee.

July 24, 2017

Prepared by: F. Sanchez 

Submitted by: P. Weghorst

Approved by: Paul A. Cook 

ACTION CALENDAR

WATER STORAGE INVESTMENT PROGRAM GRANT APPLICATION

SUMMARY:

The California Water Commission (CWC) is accepting applications for Proposition 1 grant funding through the Water Storage Investment Program (WSIP). The goal of the WSIP is to fund water storage projects that provide public benefits, improve the operation of the state water system and provide a net improvement in ecosystem and water quality conditions. The proposed Kern Fan Groundwater Storage Project would provide IRWD and Rosedale-Rio Bravo Water Storage District substantial benefits while meeting CWC criteria. Staff recommends that the Board adopt a resolution that authorizes the General Manager to submit a grant application for WSIP funding, confirms that IRWD has the capability to provide its cost share funding as specified in the application's project funding plan, and that authorizes the General Manager to work with the CWC to meet established deadlines and to execute an acceptable funding agreement.

BACKGROUND:

The CWC is accepting applications for grant funding through the WSIP for the planning, design and construction of water storage projects that provide specific public and ecosystem benefits. The funding source for the WSIP is Proposition 1, also known as the Water Quality, Supply and Infrastructure Improvement Act of 2014, which provides \$2.7 billion for public benefits associated with water storage projects. The maximum WSIP funding request for a surface and/or groundwater storage project is 50% of project capital costs. The value of the quantified ecosystem improvement benefits must make up at least 50% of the WSIP cost share, or 25% of the total WSIP funding. Capital costs incurred after November 4, 2014 will be eligible for reimbursement. Applications must be submitted to the CWC by August 14, 2017.

After review of the conditions for project eligibility, staff recommends submitting a resolution to support an application for up to \$86 million in grant funding from the WSIP. Staff has been working with Rosedale and several consultants to develop a grant application for a Kern Fan Project that meets CWC grant funding eligibility criteria. The following is an overview of a conceptual proposal for the Kern Fan Project, the proposed project benefits, and estimated project costs.

Kern Fan Groundwater Storage Project:

Staff has worked with Rosedale to develop a concept for a potential Kern Fan Project that would provide the benefits necessary to meet the eligibility criteria for WSIP funding. The project would be a regional water bank in the Kern Fan area that would capture, transport and store water during conditions when surface water is abundant. A portion of the water would be returned at a later date through groundwater recovery and implementation of operational exchanges. The project could be integrated with the State Water Project and Central Valley

Project systems through program agreements with project contractors and through the use of turnouts from the California Aqueduct, the Cross Valley Canal, the Friant-Kern Canal, and new conveyance facilities.

The Kern Fan Project would be implemented in a two-phased approach. The first phase would be the development of the proposed third project site as contemplated in the Stockdale Integrated Banking Project Environmental Impact Report (EIR). IRWD and Rosedale would jointly acquire up to 640 acres in the Kern Fan area and construct recharge and recovery facilities as necessary to develop a fully functioning water banking project. In addition, IRWD and Rosedale would construct a new dedicated conveyance canal from the California Aqueduct to ensure the ability to convey flows from the State Water Project to the new recharge facilities.

The second phase of the Kern Fan Project would involve IRWD and Rosedale acquiring an additional 640 acres of land for the expansion of the water banking facilities. The overall project would consist of approximately 500 cfs of canal capacity from the California Aqueduct, 100,000 acre feet of storage capacity, up to 100,000 acre feet per year (AFY) in recharge capacity and up to 70 cubic feet per second (cfs) or 50,000 AFY of recovery capacity.

Proposed Project Benefits and Estimated Costs:

The grant requires a 50% cost-share match. The 50% match would be shared equally by IRWD and Rosedale so that each would provide 25% of the total funding. Currently, engineers at Dee Jaspas and Associates estimate the overall cost of the Kern Fan Project will be between \$150 and \$172 million. Approximately half of the costs would be attributable to the construction of dedicated conveyance facilities. Based on these estimates, the project could receive between \$75 and \$86 million through a Proposition 1 grant. IRWD and Rosedale would then each provide between \$37.5 and \$43 million for the project.

At the Board meeting, staff will provide an update on estimated project costs and how the Kern Fan Project could be operated to provide water supply benefits to IRWD and Rosedale as well as to provide quantifiable ecosystem benefits to the Delta.

Resolution:

As part of the application process, the CWC requires a resolution adopted by each applicant's governing body designating an authorized representative to submit a proposal for the grant and to work with the CWC to meet established deadlines for entering into a funding agreement. In compliance with this requirement, a resolution has been prepared and attached as Exhibit "A". Staff recommends that the Board adopt the resolution that authorizes the General Manager to submit a grant application for WSIP funding, confirms that IRWD has the capability to provide its cost share funding as specified in the application's project funding plan, and that authorizes the General Manager to work with the CWC to meet established deadlines and to execute an acceptable funding agreement.

FISCAL IMPACTS:

Funding for the District's cost share for the technical studies, modeling and grant application preparation is included in the FY 2016-17 Capital Budget. If the CWC awards a grant to IRWD and Rosedale for the Kern Fan Project, a request for funding of the District's estimated \$37.5 to \$43 million cost share for the project will be included in the proposed FY 2018-19 Capital Budget.

ENVIRONMENTAL COMPLIANCE:

A Final EIR for the Stockdale Integrated Banking Project was prepared, certified and approved in compliance with CEQA of 1970 (as amended), codified at California Public Resources Code Sections 21000 et. seq., and the State CEQA Guidelines in the Code of Regulations, Title 14, Division 6, Chapter 3. Rosedale, as lead agency, filed a Notice of Determination for the Stockdale Integrated Banking Projects with the County of Kern. IRWD, as a responsible agency, filed Notices of Determination with the County of Orange and with the County of Kern. The EIR includes a program-level analysis of impacts of a third project site. If and when the third Stockdale project site is identified, subsequent project-level environmental review would need to be conducted prior to implementation of project facilities. It is expected that a new EIR would be required for the construction and operation of the second phase facilities contemplated in the proposed Kern Fan Project.

COMMITTEE STATUS:

This item was reviewed by the Supply Reliability Committee on July 20, 2017.

RECOMMENDATION:

THAT THE BOARD ADOPT THE FOLLOWING RESOLUTION BY TITLE THAT AUTHORIZES THE GENERAL MANAGER TO SUBMIT A GRANT APPLICATION FOR WATER STORAGE INVESTMENT PROGRAM FUNDING, CONFIRMS THAT IRWD HAS THE CAPABILITY TO PROVIDE ITS COST SHARE FUNDING AS SPECIFIED IN THE APPLICATION'S PROJECT FUNDING PLAN, AND THAT AUTHORIZES THE GENERAL MANAGER TO WORK WITH THE CALIFORNIA WATER COMMISSION TO MEET ESTABLISHED DEADLINES AND TO EXECUTE AN ACCEPTABLE FUNDING AGREEMENT:

RESOLUTION NO. 2017 –

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT AUTHORIZING SUBMISSION OF
A GRANT APPLICATION FOR THE PROPOSITION 1 WATER STORAGE INVESTMENT
PROGRAM TO THE CALIFORNIA WATER COMMISSION

LIST OF EXHIBITS:

Exhibit "A" –Resolution for the California Water Commission Water Storage Investment Program

EXHIBIT "A"

RESOLUTION NO. 2017 -

RESOLUTION OF THE BOARD OF DIRECTORS OF
IRVINE RANCH WATER DISTRICT AUTHORIZING SUBMISSION OF
A GRANT APPLICATION FOR THE WATER STORAGE INVESTMENT PROGRAM TO
THE CALIFORNIA WATER COMMISSION

WHEREAS, the California Water Commission (Commission) has released a Funding Opportunity Announcement to provide grant funding under the 2017 Water Storage Investment Program pursuant to Title 23, Division 7, Chapter 1 of the California Code of Regulations; and

WHEREAS, the Commission is seeking applications from eligible agencies to cost share with the Commission on projects that provide public benefits including ecosystem improvements, water quality improvements, flood control benefits, emergency response, recreational benefits, or the improved management of water resources for beneficial use; and

WHEREAS, the Irvine Ranch Water District is eligible to submit an application for grant funding up to \$86 million for its Proposition 1 grant application to the Commission with a cost share of 25 percent or more of the project capital costs.

NOW, THEREFORE, the Board of Directors of IRVINE RANCH WATER DISTRICT DOES HEREBY RESOLVE, DETERMINE and ORDER as follows:

Section 1. The General Manager of the Irvine Ranch Water District or his/her designee is hereby authorized to submit an application to the Commission for grant funding up to \$86 million for the Water Storage Investment Program.

Section 2. The Board of Directors of the Irvine Ranch Water District has reviewed and supports the application for Proposition One grant funding from the Commission for the Water Storage Investment Program.

Section 3. The Irvine Ranch Water District hereby agrees and further confirms that it has the capability to provide its cost share funding as specified in the application's project funding plan.

Section 4. The General Manager or his/her designee is hereby authorized to prepare the necessary data, conduct investigations, file such applications, execute an acceptable funding agreement and any amendments thereto, and sign invoices with the Commission on behalf of the Irvine Ranch Water District.

Section 5. The General Manager or his/her designee is hereby authorized to work with the Commission to meet the established deadlines for entering into the funding agreement.

Section 6. That the Secretary is hereby authorized to certify a copy of this resolution to accompany the grant application.

ADOPTED, SIGNED AND APPROVED this 24th day of July, 2017.

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

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

APPROVED AS TO FORM:
NOSSAMAN LLP
Alfred Smith, Legal Counsel

By: _____